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# QUARTERLY MONITORING REPORT
# ACTIVE TREATMENT SYSTEMS
# FOURTH QUARTER 2006

## AMERICAN CHEMICAL SERVICE NPL SITE
## GRIFFITH, INDIANA

**MWH File No. 4050577**

**Prepared For:**

**American Chemical Service NPL Site RD/RA Executive Committee**
**Griffith, Indiana**

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**March 2007**

MWH

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**Prepared For:**

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**Griffith, Indiana**

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## ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| AS | Air Sparge |
| AMSL | Above Mean Sea Level |
| BOD | Biological Oxygen Demand |
| BW | Barrier Wall |
| BWES | Barrier Wall Extraction System |
| cfm | cubic feet per minute |
| DL | Detection Limit |
| DPE | Dual Phase Extraction |
| GAC | Granular Activated Carbon |
| Global | Global Technologies |
| GWTP | Groundwater Treatment Plant |
| "Hg | Inches of mercury |
| "$H_2O$ | Inches of water |
| IDEM | Indiana Department of Environmental Management |
| K-P | Kapica Pazmey |
| lb/hr | Pounds per hour |
| LDC | Laboratory Data Consultants |
| mg/kg | Milligrams per kilogram |
| mg/L | Milligrams per liter |
| NC | Not Calculated |
| ND | Not Detected |
| NE | No Effluent Limit Established |
| NS | Not Sampled |
| OFCA | Off-Site Containment Area |
| PCBs | Polychlorinated Biphenyls |
| ppm | Parts per million |
| PGCS | Perimeter Groundwater Containment System |
| PSVP | Performance Standard Verification Plan |
| QAPP | Quality Assurance Project Plan |
| QA/QC | Quality Assurance/Quality Control |
| SBPA | Still Bottoms Pond Area |
| SVOC | Semi-Volatile Organic Compounds |
| T-102 | Aeration Equalization Tank (Tank – 102) |
| TOC | Top of Casing |
| TOIC | Top of Inner Casing |
| TOSG | Top of Staff Gauge |
| TSS | Total Suspended Solids |
| µg | Micrograms |
| µg/L | Micrograms per liter |
| U.S. EPA | United States Environmental Protection Agency |
| VOCs | Volatile Organic Compounds |

# 1.0 INTRODUCTION

MWH Americas, Inc. (MWH), on behalf of the American Chemical Service (ACS) Remedial Design/Remedial Action (RD/RA) Executive Committee, started up the on-site groundwater treatment system at the ACS National Priorities List (NPL) Site (ACS Site) in Griffith, Indiana on March 13, 1997. The groundwater treatment plant (GWTP) system was designed to treat groundwater from the Perimeter Groundwater Containment System (PGCS) and the Barrier Wall Extraction System (BWES). The original treatment consisted of a phase-separator for oil and free product removal, equalization tanks, an UV oxidation unit for destruction of organic constituents, and an air stripper to remove methylene chloride and other organics. The treatment also included a chemical precipitation and clarification unit to remove metals, a sand filter to remove suspended solids, and activated carbon vessels for final polishing of the treated groundwater before it was released to the west of the Site.

In 2001, an activated sludge treatment unit was added to the process to reduce the volatile and semivolatile organic compounds (VOCs and SVOCs) in the collected groundwater. The activated sludge treatment process also reduces the amount of activated carbon required to treat the water. An aerated equalization tank was also added to the GWTP in 2001 to remove VOCs from the collected groundwater, oxidize metals to increase metals removal efficiency in the chemical precipitation unit, and equalize groundwater flow through the GWTP. The activated sludge system and aeration tank have been fully integrated into the process along with the other upgrade components. Startup and optimization of the catalytic oxidizer/scrubber air treatment unit was also conducted during 2001.

The treated effluent from the treatment system is discharged to the nearby wetlands, west of the treatment system, in accordance with Agency approvals.

Operation of the In-situ Soil Vapor Extraction (ISVE) system for the Off-Site Containment Area (OFCA) and the Kapica-Pazmey (K-P) Area began on May 1, 2002. Operation of the ISVE system for the Still Bottoms Pond Area (SBPA) began in July 2003. The ISVE systems were designed to remove volatile and semi-volatile compounds from the subsurface media.

The Off-Site Area ISVE system consists of 42 ISVE wells, 3 air sparge wells, ISVE and air sparge blower systems, a thermal oxidizer/scrubber unit, and the associated mechanical and electrical components. Protocols and goals for the phased startup of the Off-Site System as defined in the Final Remedy (Montgomery Watson, 1999) were followed. In 2004, an additional blower unit was added to the Off-Site Area ISVE system to more effectively meet the design objectives of the system. The additional blower increased the capacity of the Off-Site ISVE system from 1000 to 2000 cubic feet per minute (cfm).

The SBPA ISVE system consists of 25 ISVE wells, 21 dual-phase extraction (DPE) wells, 6 air sparge wells, ISVE and air sparge blower systems, a thermal oxidizer/scrubber unit, and the associated mechanical and electrical components. During the first 12 months of system operation, the performance of the ISVE system was evaluated. Based on this evaluation, the

SBPA ISVE system was enhanced in accordance with the United States Environmental Protection Agency (U.S. EPA) and Indiana Department of Environmental Management (IDEM) approval by reconfiguring 18 of the ISVE wells to allow injection of air. Air for the injection wells is directed from blower ME-102/103 at the GWTP to the SBPA ISVE blower shed. The air injection system, which consists of three groups of five injection wells, began operation in December 2005. The air injection is scheduled to rotate among the three well groups on a monthly basis. Only one well group is operated at a time.

This report summarizes GWTP effluent analytical data and thermal oxidizer off-gas analytical data, ISVE process monitoring data, and water level gauging data collected from October 2006 through December 2006. The report also details modifications and upgrades that were made to the active treatment systems during the reporting period.

# 2.0 GWTP COMPLIANCE MONITORING

## 2.1 SAMPLING REQUIREMENTS

Effluent samples are collected on a regular schedule from the treatment system to demonstrate compliance with the discharge limits (Table 2.1) established by the Indiana Department of Environmental Management (IDEM) and the United States Environmental Protection Agency (U.S. EPA). The approved Performance Standard Verification Plan (PSVP) (Montgomery Watson, July 1997) requires quarterly effluent sampling for biochemical oxygen demand (BOD), total suspended solids (TSS), SVOCs, metals, and polychlorinated biphenyls (PCBs) in the system, and monthly effluent sampling for pH and VOCs, as tabulated below. In accordance with the PSVP, a full analysis effluent compliance sample was collected during October 2006 and analyzed for all of the analytes listed above. During November and December 2006, the monthly effluent compliance samples were analyzed for VOCs and pH only.

Sampling and analyses were performed in accordance with the approved Quality Assurance Project Plan (QAPP) (Montgomery Watson Harza, November 2001). Quality control measures were also instituted in accordance with the PSVP. The following table and paragraphs present details on sampling and analyses and also summarize the analytical data for the treatment system effluent.

**Sampling Frequency Schedule – Groundwater Treatment System**

| Analytes | Cumulative Time From Startup* | Frequency |
|---|---|---|
| Flowrate | – | Continuous |
| BOD, TSS, SVOCs and Metals | 181 days onward | Once per quarter |
| VOCs and pH | 31 days onward | Once per month |
| PCBs | 181 days onward | Once per quarter |
| PCBs in Sediment (one location) | – | Once per year |

*Note: System operation began on March 13, 1997

## 2.2 EFFLUENT SAMPLING AND ANALYSES

Effluent samples were collected each month during the fourth quarter of 2006. Samples were collected on the following dates and analyzed for the listed analytes for this reporting period:

| | |
|---|---|
| October 11, 2006 | Full analysis (pH, TSS, BOD, Metals, VOCs, SVOCs, pentachlorophenol, and PCBs) |
| November 1, 2006 | pH and VOCs |
| December 21, 2006 | pH and VOCs |

The above samples were collected directly from a sampling port on the effluent line of the treatment system. The samples were placed in contaminant-free containers, in accordance with the U.S. EPA Specifications and Guidance for Obtaining Contaminant-Free Sample Containers (U.S. EPA, 1992). Appropriate sample containers and preservatives, as specified in the QAPP, were used to collect and preserve the samples. Following sample collection, the temperature of the sample containers was maintained at or below 4° C in coolers. Chain-of-Custody forms were prepared to track the transfer of samples from the treatment system to the laboratories. In accordance with the approved QAPP, the effluent water samples were analyzed for the following parameters by the following analytical methods:

| Parameter | Analytical Method |
|---|---|
| VOCs | SW-846 8260B |
| SVOCs | SW-846 8270C |
| Pentachlorophenol | SW-846 8270C and SIM |
| Pesticides/PCBs | EPA 608/SW-846 8081/8082 |
| Metals (Excluding Mercury) | |
| General Water Quality | SW-846 6010 |
| Parameters (TSS and BOD-5) | EPA 160.2 and 405.1 |
| Mercury | SW-846 7470 |
| pH | EPA 150.1 |

## 2.3 EFFLUENT ANALYTICAL RESULTS

### 2.3.1 GWTP Effluent Samples

The GWTP effluent monitoring data, summarized in Table 2.2, verify that the system effluent was compliant with the discharge limits summarized in Table 2.1. No effluent exceedences were reported in the October, November, or December samples.

Compuchem Laboratory of Cary, North Carolina performed the analysis of the samples. Laboratory Data Consultants (LDC) of Carlsbad, California performed third party data validation in accordance with the U.S. EPA National Functional Guidelines for Organic/Inorganic Data Review (U.S. EPA, February 1994 and October 1999). Validation qualifiers are listed in Table 2.2 and are written in the margin of the analytical data sheets provided in Appendix A.

### 2.3.2 Sediment Sample

Since 1998, MWH has collected an annual sediment sample and associated quality control samples from the GWTP outfall in accordance with the PSVP to help determine if PCB accumulation is occurring at the GWTP discharge location. The annual sediment sample for 2006 was collected on December 11$^{th}$ from the GWTP outfall location, shown on Figure 2.1. The sample was analyzed for PCBs by CompuChem and the data was validated by LDC.

The analytical data for the annual sediment samples for the past seven years are summarized in Table 2.3. Analytical data for the December 2006 sample are included in Appendix C. One aroclor, Aroclor-1248, was detected in the December 2006 sample. Although

concentrations remain below any action levels, results for this compound had been non-detect for previous sampling events. MWH will accelerate the schedule for collection of the 2007 sampling event to coincide with the next groundwater sampling event to be conducted in April.

# 3.0 ISVE SYSTEM MONITORING

## 3.1 THERMAL OXIDIZER OFF-GAS SAMPLING

During the fourth quarter of 2006, Thermal Oxidizer/Scrubber Unit 1 (Therm Ox 1) was used to treat vapors from the SBPA ISVE system and Thermal Oxidizer/Scrubber Unit 2 (Therm Ox 2) was used to treat vapors from the Off-Site ISVE system and T-102. VOC removal rates as well as the total VOCs removed are illustrated in Figure 3.1 and Figure 3.2, respectively. Compliance samples were collected from both thermal oxidizer/scrubber units on October 19th, November 2nd, and December 11th.

Influent and effluent off-gas samples were collected directly from sampling ports on the influent pipe to the thermal oxidizer and the discharge stack of the scrubber. One influent sample and one effluent sample were collected. A duplicate influent sample was also collected. The samples were collected to comply with the PSVP and QAPP and in accordance with laboratory guidelines. The VOC samples were collected using a Summa canister and the SVOC samples were collected in sorbent tubes.

**Sampling Frequency Schedule – ISVE System**

| | |
|---|---|
| Startup | Weekly for a four week period |
| Post-Startup | Monthly in accordance with the IDEM Air Permit Equivalency |

Following sample collection, the sorbent tubes were maintained at or below 4°C in coolers. Chain-of-Custody forms were prepared to track the transfer of samples from the treatment system to the laboratories for extraction and analysis. In accordance with the approved QAPP, the off-gas samples were analyzed by the following analytical methods:

| Parameter | Analytical Method |
|---|---|
| VOCs | TO-14 |
| SVOCs | TO-13 |

## 3.2 SAMPLING RESULTS

The influent and effluent off-gas data are collected to verify that the off-gas from both of the thermal oxidizers were less than the IDEM discharge limit of three pounds of VOCs per hour for October, November, and December. For example, the VOC discharge reported from the October 19, 2006 Therm Ox 1 sample was 0.015 pounds per hour, approximately 0.5 percent of the discharge limit. The VOC discharge from the October 19, 2006 Therm Ox 2 sample was 0.1429 pounds per hour, approximately five percent of the discharge limit. All of the results for November and December were within the same order of magnitude. Therefore, it can be concluded that the ISVE systems are performing well within discharge limits for air emissions. VOC discharge values for Therm Ox 1, Therm Ox 2, and the SBPA and Off-Site

ISVE system are presented in Tables 3.1 through 3.9. The analytical data sheets for the compliance samples are provided in Appendix B.

In addition to the off-gas data collected during the fourth quarter, MWH collected off-gas samples from the Off-Site ISVE system and the SBPA ISVE system influent lines. These samples were collected in order to comply with the PSVP.

Air Toxics Laboratories of Folsom, California analyzed the samples. The analytical results are summarized in Tables 3.1 through 3.18. MWH performed data validation in accordance with the QAPP and the National Functional Guidelines for Organic/Inorganic Data Review. Validation qualifiers are listed in the tables and are written in the margin of the analytical data sheets provided in Appendix B.

## 3.3 ISVE SYSTEM MONITORING

Performance monitoring of the ISVE system was conducted in accordance with the PSVP (Montgomery Watson, June 1999). Extracted vapor flow rates and vacuums at individual ISVE wells and headers were measured and recorded on a routine basis. Additionally, VOC concentrations were measured at individual wells and headers using a photoionization detector (PID).

The information collected during performance monitoring is used to evaluate and optimize the ISVE system. Data collected from the Off-Site ISVE system during the fourth quarter of 2006 are presented in Tables 3.19 and 3.20. Data that were collected from the SBPA ISVE system during the fourth quarter of 2006 are presented in Tables 3.21 and 3.22.

## 3.4 PRODUCT REMOVAL ACTIVITIES

Product removal activities were performed at two ISVE well locations in the SBPA during the fourth quarter 2006 (SVE-53 and SVE-72). A total of 38 gallons of liquid were removed from these wells. The product removal schedule for the fourth quarter is summarized in Table 3.23.

# 4.0 GWTP PROCESS MODIFICATIONS AND REPAIRS

## 4.1 GWTP PROCESS MODIFICATIONS

No modifications were made to the GWTP during the fourth quarter of 2006.

## 4.2 GWTP REPAIRS AND MAINTENANCE

The following maintenance was made to the GWTP during the fourth quarter of 2006:

- The temperature in the biotank continues to be maintained at approximately 58 degrees in order to sustain a viable microbial population. The heat exchanger used to warm the biotank influent water was inspected during the annual maintenance event in October and found to be intact with minimal noticeable corrosion.

- MWH is currently evaluating options to use the free product collected from the SBPA ISVE wells as a fuel source for system operations. By using the free product as a fuel source, MWH can reduce natural gas usage. Options include injecting the product into the thermal oxidizers or using it in an oil heater to supplement facility heating.

- Recent groundwater level monitoring results indicate that levels in both the On-Site and Off-Site Areas have elevated during the gauging event on November 22$^{nd}$. MWH is evaluating the performance of extraction wells to ensure correct operation and will continue to monitor groundwater levels.

# 5.0 ISVE PROCESS MODIFICATIONS AND REPAIRS

## 5.1 ISVE PROCESS MODIFICATIONS

The following modifications were made to the SBPA ISVE system during the fourth quarter of 2006:

- Three sets of five air injection wells ran at the ACS site throughout the fourth quarter 2006. On October 19, 2006, MWH switched the air injection wells from Group 3 (SVE-44, SVE-59, SVE-77, SVE-80, and SVE-84) to Group 1 (SVE-50, SVE-54, SVE-73, SVE-79, and SVE-81). Group 1 operated until November 29, 2006 when MWH switched over to Group 2 (SVE-49, SVE-51, SVE-65, SVE-71, and SVE-82). On December 21, 2006, MWH was at the Site to switch the air injection wells from Group 2 to Group 3. MWH will continue to rotate among the three groups of air injection wells on a monthly basis.

- MWH is currently evaluating a flow meter for improved vapor flow monitoring from the ISVE systems and thermal oxidizers. MWH has ordered a FCI ST98 thermal mass flow meter that will be installed on one of the thermal oxidizer influent pipes. The meter is anticipated to be installed during the week of January 8, 2007. MWH will evaluate the meter's performance for approximately two to three weeks to determine if the meter is appropriate for the application. If performance is satisfactory, three additional flow meters will be procured and installed to track vapor flow through the entire system.

No modifications were made to the Off-Site ISVE system during the fourth quarter of 2006.

## 5.2 ISVE REPAIRS AND MAINTENANCE

The following repairs were made to the ISVE system during the fourth quarter of 2006:

- Annual maintenance of the air sparge compressors was performed during November.

- Thermal Oxidizer 1 (ThermOx 1) was shut down during the month of November for routine maintenance activities.

- Thermal Oxidizer 2 (ThermOx 2) was shut down during November due to a malfunctioning flow switch on the scrubber recirculation line. The spare switch stored at the Site failed to operate correctly when it was installed, so MWH ordered a replacement switch as well as a new spare switch to be stored at the Site.

## 6.0 PGCS AND BWES GAUGING ACTIVITIES

During the operational time frame of the GWTP in the fourth quarter of 2006, the PGCS groundwater extraction trenches were operated in "auto" mode. In "auto" mode, the PGCS extraction wells pump continuously unless there is a low water level in individual extraction wells or a high water level in the Aeration Equalization Tank (T-102). This mode is used to control the flowrate through the treatment system, while at the same time creating an inward gradient along the PGCS trench. The GWTP also received influent from the On-Site and Off-Site components of the BWES, the SBPA DPE wells, and MW-56 during the fourth quarter of 2006. The pump in MW-10C malfunctioned. Therefore, pumping did not occur at this location during the fourth quarter 2006. The pump for MW-10C will be brought back online upon completion of the Lower Aquifer Pumping System.

In accordance with the PSVP, a discussion on the effect of the PGCS and BWES on the water table near the Site is presented in each quarterly monitoring report. This section summarizes the groundwater elevations at the Site during October, November, and December 2006. Groundwater elevation measurements were collected throughout the Site on December 22, 2006 as part of the groundwater monitoring program. The groundwater elevations are listed in Table 6.1 and the resulting water table contours outside the barrier wall are shown on Figure 6.1.

The barrier wall was constructed to contain the contaminated zone under the Site and the BWES was installed to extract groundwater from within the barrier wall and dewater the Site for the ISVE system. Eight pairs of piezometers were installed, with one piezometer of each pair on either side of the barrier wall, spaced along the barrier wall alignment. This allows measurement and tracking of water levels in order to document that the barrier wall is serving its designed function.

Table 6.1, BWES Water Level and Piezometer Pairs, presents the groundwater elevations inside and outside the barrier wall on December 22, 2006. The groundwater elevations are plotted on Figure 6.2. The groundwater elevation measurements inside the barrier wall range from 3.09 to 11.48 feet lower than levels outside the barrier wall. In general, the data demonstrates that the barrier wall is successfully performing the intended function of isolating and protecting the groundwater outside the barrier wall from the source areas of the Site inside the barrier wall. MWH will continue to collect water level measurements quarterly across the Site as required in the PSVP.

As part of the optimization of the GWTP and BWES upgrades, MWH began active dewatering of the Off-Site Area through increased groundwater pumping rates on September 25, 2001. Active dewatering of the SBPA (on-site area) began on February 11, 2003 with the addition of the DPE wells. Water levels were measured throughout the quarter at piezometer locations (P29, P31, P32, P36, and P49) in the On-Site Area and at piezometers (P96, P110, P112, P113, P114, P116, P118) and three air sparge (AS) wells (AS-7, AS-8, and AS-9) in the Off-Site Area. These locations are shown on Figure 6.3. The water level trend data from these piezometers and AS wells for the fourth

quarter 2006 are depicted graphically on Figures 6.4 and 6.5, which also show the target water elevations for each area. In the SBPA, the target water level is 629 feet amsl. Water levels in two piezometer locations (P-29 and P-32) have been drawn down to below the bottom of the screens in these wells throughout the fourth quarter 2006. Therefore, our depth to water measurements at these locations show straight-line measurements of the bottom of the wells. The other three locations had water levels that were drawn down to the below the well screen for the first half of the fourth quarter. However, during the second half of the quarter, water levels varied from approximately 625 feet amsl to 632 feet amsl. This represents an increase in the average water levels from the third quarter 2006.

In the Off-Site ISVE area, the target water level is 626 feet amsl. Actual water levels varied from approximately 620.5 feet amsl to 632.5 feet amsl. This represents an increase in the average water levels from the third quarter 2006. MWH will continue to monitor the water levels in both the SBPA and Off-Site Area to ensure vapor extraction at the ISVE wells is not inhibited.

## 7.0 SYSTEM OPERATION

The GWTP operated as designed for approximately 92 percent of the fourth quarter of 2006 (based on 2,014 hours of operation out of a total of 2,184 hours). The system drew influent water from the On-Site Area BWES, the Off-Site Area BWES, the PGCS, and MW-56.

The Off-Site Area ISVE system continued to operate as designed for approximately 74 percent of the fourth quarter of 2006 (based on 1,707 hours of operation out of a total of 2,184 hours). The SBPA ISVE system continued to operate as designed for approximately 78 percent of the fourth quarter of 2006 (based on 1,625 hours of operation out of a total of 2,184 hours).

A majority of the downtime for the ISVE systems was associated with maintenance of the thermal oxidizers.

# 8.0 CONCLUSIONS AND RECOMMENDATIONS

This section provides a summary of the operational status of the active remedial systems at the ACS NPL site for the subject period. Anticipated activities for the upcoming quarter and recommendations for system modifications are also provided.

## 8.1 GWTP OPERATION

The GWTP continued to operate normally during the fourth quarter of 2006. No significant modifications were made to the system during the period. The GWTP continued to treat water from all available sources, except MW-10C. The pump at MW-10C has malfunctioned and will be replaced.

The list of sources sending groundwater to the GWTP will be expanded upon the completion of the Lower Aquifer Pumping System. Due to the saturated ground conditions and the winter weather, MWH has suspended the installation of this system. MWH will monitor conditions in the area to determine an appropriate time to complete the installation.

Annual sediment sampling conducted in December 2007 indicated that concentrations of Aroclor-1248 were detected above laboratory method detection limits. Although concentrations remain below any action levels, results for this compound had been non-detect for previous sampling events. As a result, MWH will accelerate the schedule for collection of the 2007 sampling event to coincide with the next groundwater sampling event to be conducted in April 2007.

MWH is evaluating methods for using the free product regularly collected from the SBPA ISVE wells. Potential options include injection of the liquid into the combustion chamber of ThermOx 2 or using the material to fuel room heaters during the winter time.

## 8.2 ISVE OPERATON

The ISVE systems continued to operate normally during the fourth quarter of 2006. The operational times of both the systems were decreased primarily due to maintenance issues associated with the thermal oxidizers. MWH will continue to perform O&M services on these units to ensure adequate operational time for the ISVE systems. No significant changes were made to the operational configuration of the ISVE systems.

As shown in Figure 3.1, the VOC removal rates (in pounds per day) were observed to be within range of previous events. MWH is currently reviewing the equipment used to monitor the rate of VOC extraction by the ISVE systems. Alternate flow meters are being investigated to identify one that will allow MWH to more accurately and consistently measure the flow and mass of VOCs in the extracted vapor streams.

## 8.3 GROUNDWATER LEVEL MONITORING

As indicated in Section 6.0, the groundwater extraction system continues to successfully perform its intended function of isolating and protecting the groundwater outside the barrier wall from the source areas of the Site inside the barrier walls.

Recent groundwater level monitoring results indicate that levels in both the On-Site and Off-Site Areas have risen above previous minimum levels. MWH is evaluating the performance of the extraction trenches and wells to ensure correct operation and will continue to monitor groundwater levels.

## 8.4 HEALTH AND SAFETY

No health and safety incidents were reported during the fourth quarter of 2006. MWH continues to perform site activities in accordance with the site Health and Safety Plan and all applicable addendums.

MWH's annual safety meeting with ACS personnel was held on October 30, 2006. The meeting included an update on the status of MWH's work at the site and a refresher on the health and safety aspects of the ongoing operations. An update on ACS activities was provided for MWH personnel.

Eyewash stations were installed in both of the ISVE blower sheds. The annual fire extinguisher inspection was complete in November.

Health and Safety statistics for the ACS Site as of December 31, 2006 are:

- 3,508 consecutive days with no lost time due to an accident or Health and Safety incident.
- 1,200 consecutive days without an incident requiring first aid.

## 9.0 REFERENCES


1. *Final Remedial Design Report: Final Remedy, ACS NPL Site,* Montgomery Watson, August 1999.

2. *Performance Standard Verification Plan, ACS NPL Site*, Montgomery Watson, July 1997.

3. *Performance Standard Verification Plan, ACS NPL Site*, Montgomery Watson, June 1999.

4. *Phase I Technical Memorandum Wetland Investigation, ACS NPL Site*, Montgomery Watson, July 1996.

5. *Phase II Technical Memorandum Wetland Investigation, ACS NPL Site*, Montgomery Watson, February 1997.

6. *Quality Assurance Project Plan, ACS NPL Site*, Montgomery Watson Harza, March 2001.

7. *U.S. EPA Specifications and Guidance for Obtaining Contaminant-Free Sample Containers*, United States Environmental Protection Agency, 1992.

8. *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* U.S. EPA, February 1994.

9. *Contract Laboratory Program National Functional Guidelines for Organic Data Review,* U.S. EPA, October 1999.


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# TABLES

# Table 2.1
# Groundwater Treatment System Effluent Discharge Limits
# American Chemical Service NPL Site
# Griffith, Indiana

| Groundwater Quality Parameter | Effluent Standard (Limit) |
|---|---|
| ***General Water Quality Parameters*** | |
| pH | 6 - 9 S.U. |
| BOD-5 | 30 mg/L |
| TSS | 30 mg/L |
| ***Inorganics*** | |
| Arsenic | 50 µg/L |
| Beryllium | NE |
| Cadmium | 4.1 µg/L |
| Manganese | NE |
| Mercury | 0.02 µg/L (w/DL = 0.64) |
| Selenium | 8.2 µg/L |
| Thallium | NE |
| Zinc | 411 µg/L |
| ***Volatile Organics*** | |
| Acetone | 6,800 µg/L |
| Benzene | 5 µg/L |
| 2-Butanone | 210 µg/L |
| Chloromethane | NE |
| 1,4 – Dichlorobenzene | NE |
| 1,1 – Dichloroethane | NE |
| 1,2 – Dichloroethene – cis | 70 µg/L |
| Ethylbenzene | 34 µg/L |
| Methylene chloride | 5 µg/L |
| Tetrachloroethene | 5 µg/L |
| Trichloroethene | 5 µg/L |
| Vinyl chloride | 2 µg/L |
| 4 – Methyl - 2 – pentanone | 15 µg/L |
| ***Semi-Volatile Organics*** | |
| bis(2 – Chloroethyl) ether | 9.6 µg/L |
| bis(2 – Ethylhexyl) phthalate | 6 µg/L |
| Isophorone | 50 µg/L |
| 4 – Methylphenol | 34 µg/L |
| Pentachlorophenol | 1 µg/L |
| ***PCBs*** | |
| PCBs | 0.00056 µg/L (w/DL = 0.1 to 0.9) |

**Notes:**
NE = No effluent limit established.
DL = Detection limit
S.U. = Standard pH units
µg/L - micrograms per Liter

# Table 2.2
## Summary of Effluent Analytical Results - Fourth Quarter 2006
## Groundwater Treatment System
## American Chemical Service NPL Site
## Griffith, Indiana

| Event Date | Month 113 10/11/2006 | Month 114 11/1/2006 | Month 115 12/20/2006 | Effluent Limits | Lab Reporting Limits |
|---|---|---|---|---|---|
| pH | 7.45 /J | 7.05 / | 7.28 /J | 6-9 | none |
| TSS | 0.800 B/ | NS | NS | 30 | 10 |
| BOD | < 2.0 B-01, U/ | NS | NS | 30 | 2 |
| Arsenic | 9.5 B/ | NS | NS | 50 | 3.4 |
| Beryllium | 0.45 B/UB | NS | NS | NE | 0.2 |
| Cadmium | 0.20 U/ | NS | NS | 4.1 | 0.3 |
| Manganese | 0.10 U/ | NS | NS | NE | 10 |
| Mercury | 0.10 U/ | NS | NS | 0.02 (w/DL = 0.64) | 0.64 |
| Selenium | 2.5 U/ | NS | NS | 8.2 | 4.3 |
| Thallium | 3.2 U/ | NS | NS | NE | 5.7 |
| Zinc | 1.1 B/UB | NS | NS | 411 | 1.2 |
| Benzene | 0.50 U/UJ | 0.50 U/ | 0.50 U/ | 5 | 0.5 |
| Acetone | 2.5 U/UJ | 2.5 U/UJ | 2.5 U/UJ | 6,800 | 3 |
| 2-Butanone | 2.5 U/UJ | 2.5 U/ | 2.5 U/ | 210 | 3 |
| Chloromethane | 0.50 U/UJ | 0.50 U/ | 0.50 U/UJ | NE | 0.5 |
| 1,4-Dichlorobenzene | 0.50 U/UJ | 0.50 U/ | 0.50 U/ | NE | 0.5 |
| 1,1-Dichloroethane | 0.50 U/UJ | 0.15 J/ | 0.68 / | NE | 0.5 |
| cis-1,2-Dichloroethene | 0.58 /J | 0.42 J/ | 1.4 / | 70 | 0.5 |
| Ethylbenzene | 0.50 U/UJ | 0.50 U/ | 0.50 U/ | 34 | 0.5 |
| Methylene chloride | 0.45 J/J | 0.84 / | 0.65 / | 5 | 0.6 |
| Tetrachloroethene | 0.50 U/UJ | 0.50 U/ | 0.50 U/ | 5 | 0.5 |
| Trichloroethene | 0.50 U/UJ | 0.50 U/ | 0.50 U/ | 5 | 0.5 |
| Vinyl chloride | 0.50 U/UJ | 0.50 U/ | 0.40 J/ | 2 | 0.5 |
| 4-Methyl-2-pentanone | 2.5 U/UJ | 2.5 U/ | 2.5 U/ | 15 | 3 |
| bis (2-Chloroethyl) ether | ND | NS | NS | 9.6 | 9.6 |
| bis(2-Ethylhexyl) - phthalate | ND | NS | NS | 6 | 6 |
| 4 - Methylphenol | ND | NS | NS | 34 | 10 |
| Isophorone | ND | NS | NS | 50 | 10 |
| Pentachlorophenol | 1.00 U/ | NS | NS | 1 | 1 |
| PCB/Aroclor-1016 | ND | NS | NS | 0.00056 (w/DL = 0.1 to 0.9) | 0.5 |
| PCB/Aroclor-1221 | ND | NS | NS | 0.00056 (w/DL = 0.1 to 0.9) | 0.92* |
| PCB/Aroclor-1232 | ND | NS | NS | 0.00056 (w/DL = 0.1 to 0.9) | 0.5 |
| PCB/Aroclor-1242 | ND | NS | NS | 0.00056 (w/DL = 0.1 to 0.9) | 0.5 |
| PCB/Aroclor-1248 | ND | NS | NS | 0.00056 (w/DL = 0.1 to 0.9) | 0.5 |
| PCB/Aroclor-1254 | ND | NS | NS | 0.00056 (w/DL = 0.1 to 0.9) | 0.5 |
| PCB/Aroclor-1260 | ND | NS | NS | 0.00056 (w/DL = 0.1 to 0.9) | 0.5 |

**Notes:**

Bolded result indicates a exceedence of the discharge limit
pH data is expressed in S.U.
Metals, VOC, SVOC and PCB data is expressed in ug/L
ND = Not detected
NS = This analyte was not sampled or analyzed for
NE = No effluent limit established.
DL = Detection limit
* = Approved SW-846 method is incapable of achieving effluent limit.

**Suffix Definitions:**

_' = Data qualifier added by laboratory
/_ = Data qualifier added by data validator
J = Result is detected below the reporting limit and is an estimated concentration
U =Analyte is not detected at or above the indicated concentration
B = Compound is also detected in the blank
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value
UB = Compound or analyte is not detected at or above the indicated concentration due to blank contamination
B-01 = Sample dilutions set-up for BOD analysis did not meet the oxygen depletion criteria of at least 2mg/L dissolved oxygen depletion. Therefore, the reported result is an estimated value only.

**Table 2.3**
**Summary of Sediment Analytical Results**
**Groundwater Treatment System**
**American Chemical Service NPL Site**
**Griffith, Indiana**

| PCB Compound | Results (ug/kg) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12/4/1998 | 2/3/2000 | 2/3/00 DUP | 8/21/2001 | 8/21/01 DUP | 6/5/2002 | 6/5/02 DUP | 1/13/04 | 1/13/04 DUP | 9/27/04 | 9/27/04 DUP | 6/15/05 | 6/15/05 DUP | 12/11/06 | 12/11/06 DUP |
| Aroclor-1016 | ND (33) | ND (59) | ND (79) | ND (62) /UJ | ND (71) | ND (52) /UJ | ND (49) | ND (67) | ND (76) | ND (62) | ND (78) | ND (74) | ND (39) | ND (71) | ND (53) |
| Aroclor-1221 | ND (33) | ND (77) | ND (100) | ND (82) /UJ | ND (92) | ND (67) /UJ | ND (64) | ND (84) | ND (95) | ND (84) | ND (110) | ND (100) | ND (53) | ND (100) | ND (76) |
| Aroclor-1232 | ND (33) | ND (59) | ND (79) | ND (62) /UJ | ND (71) | ND (52) /UJ | ND (49) | ND (67) | ND (76) | ND (62) | ND (78) | ND (74) | ND (39) | ND (50) | ND (38) |
| Aroclor-1242 | ND (33) | ND (41) | ND (55) | ND (43) /UJ | ND (49) /UJ | ND (36) /UJ | ND (34) | ND (42) | ND (48) | ND (42) | ND (53) | ND (50) | ND (27) | ND (50) | ND (38) |
| Aroclor-1248 | ND (33) | ND (41) | ND (55) | ND (43) /UJ | ND (49) /UJ | ND (36) /UJ | ND (34) | ND (42) | ND (48) | ND (42) | ND (53) | ND (49) | ND (27) | 300 | 450 |
| Aroclor-1254 | ND (33) | 22 J/ | 15 J/ | 73 P/J | 39 JP/J | ND (36) /UJ | ND (34) | ND (42) | ND (48) | ND (42) | ND (53) | ND (54) | ND (27) | ND (50) | ND (38) |
| Aroclor-1260 | ND (33) | ND (59) | ND (79) | ND (62) /UJ | ND (71) /UJ | 41 J/J | ND (49) | 35 J | ND (76) | ND (62) | ND (78) | ND (74) | ND (39) | ND (50) | ND (38) |
| ***Total PCBs*** [4] | ***ND*** | ***22*** | ***15*** | ***73*** | ***39*** | ***41*** | ***ND*** | ***35*** | ***ND*** | ***ND*** | ***ND*** | ***ND*** | ***ND*** | ***300*** | ***450*** |

**Notes:**
1 ND (_) = Compound was not detected. The detection limit is included in parentheses
2 December 4, 1998 sample was analyzed by Quanterra. All other samples were analyzed by Compuchem.
3 DUP = Duplicate sample
4 The total PCB value presented here are estimated totals based on estimated concentrations of individual Aroclors

**Suffix Definitions:**
_/ = Data qualifier added by laboratory
/_ = Data qualifier added by data validator
J = Result is detected below the reporting limit and is an estimated concentration
P = The Relative Percent Difference (RPD) between the two GC column values is greater than 25%. The higher value has been reported.
JP = The Relative Percent Difference (RPD) between the two GC column values is greater than 25%. The higher value has been reported. The concentration is also estimated.
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

# Table 3.1
## Thermal Oxidizer 1 Results for Method TO-14 (VOCs) - October 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 10/19/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 1 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| 1,1,1-Trichloroethane | ppbv | 10,000 | _/R | 10,000 | _/R | 35 | _/R | 99.65% | 99.65% | 99.65% |
| 1,1,2,2-Tetrachloroethane | ppbv | 94 | J/R | ND | U/R | 0.76 | _/R | NC | NC | NC |
| 1,1,2-Trichloroethane | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| 1,1-Dichloroethane | ppbv | 1,400 | _/R | 1,400 | _/R | 5.3 | _/R | 99.62% | 99.62% | 99.62% |
| 1,1-Dichloroethene | ppbv | 240 | _/R | 220 | _/R | 57 | _/R | 74.09% | 76.25% | 75.17% |
| 1,2-Dichloroethane | ppbv | 210 | _/R | 220 | _/R | 1.1 | _/R | 99.48% | 99.50% | 99.49% |
| 1,2-Dichloropropane | ppbv | 230 | _/R | 190 | _/R | 0.76 | _/R | 99.60% | 99.67% | 99.63% |
| 2-Butanone (Methyl Ethyl Ketone) | ppbv | 410 | J/R | 390 | J/R | 14 | _/R | NC | NC | NC |
| 2-Hexanone | ppbv | ND | U/R | ND | U/R | 0.69 | J/R | NC | NC | NC |
| 4-Methyl-2-pentanone | ppbv | 1,400 | _/R | 1,600 | _/R | 17 | _/R | 98.79% | 98.94% | 98.86% |
| Acetone | ppbv | 800 | _/R | 620 | _/R | 85 | _/R | 86.29% | 89.38% | 87.83% |
| Benzene | ppbv | 4,300 | _/R | 4,000 | _/R | 72 | _/R | 98.20% | 98.33% | 98.26% |
| Bromodichloromethane | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| Bromoform | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| Bromomethane | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| Carbon Disulfide | ppbv | ND | U/R | ND | U/R | 1.2 | J/R | NC | NC | NC |
| Carbon Tetrachloride | ppbv | ND | U/R | ND | U/R | 0.55 | J/R | NC | NC | NC |
| Chlorobenzene | ppbv | ND | U/R | 58 | J/R | 1.9 | _/R | NC | NC | NC |
| Chloroethane | ppbv | 170 | _/R | 220 | _/R | 1.9 | _/R | 98.88% | 99.14% | 99.01% |
| Chloroform | ppbv | 3,500 | _/R | 3,400 | _/R | 16 | _/R | 99.53% | 99.54% | 99.54% |
| Chloromethane | ppbv | ND | U/R | ND | U/R | 9 | _/R | NC | NC | NC |
| cis-1,2-Dichloroethene | ppbv | 9,000 | _/R | 9,700 | _/R | 58 | _/R | 99.36% | 99.40% | 99.38% |
| cis-1,3-Dichloropropene | ppbv | ND | U/R | ND | U/R | 0.21 | J/R | NC | NC | NC |
| Dibromochloromethane | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| Ethyl Benzene | ppbv | 8,300 | _/R | 8,000 | _/R | 32 | _/R | 99.60% | 99.61% | 99.61% |
| m,p-Xylene | ppbv | 33,000 | _/R | 32,000 | _/R | 130 | _/R | 99.59% | 99.61% | 99.60% |
| Methylene Chloride | ppbv | 4,700 | _/R | 5,000 | _/R | 170 | _/R | 96.38% | 96.60% | 96.49% |
| o-Xylene | ppbv | 13,000 | _/R | 13,000 | _/R | 54 | _/R | 99.58% | 99.58% | 99.58% |
| Styrene | ppbv | ND | U/R | ND | U/R | 17 | _/R | NC | NC | NC |
| Tetrachloroethene | ppbv | 26,000 | _/R | 26,000 | _/R | 220 | _/R | 99.15% | 99.15% | 99.15% |
| Toluene | ppbv | 34,000 | _/R | 34,000 | _/R | 130 | _/R | 99.62% | 99.62% | 99.62% |
| trans-1,2-Dichloroethene | ppbv | 170 | J/R | 110 | J/R | 14 | _/R | NC | NC | NC |
| trans-1,3-Dichloropropene | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| Trichloroethene | ppbv | 9,100 | _/R | 9,300 | _/R | 72 | _/R | 99.21% | 99.23% | 99.22% |
| Vinyl Chloride | ppbv | 1,500 | _/R | 1,800 | _/R | 30 | _/R | 98.00% | 98.33% | 98.17% |
| **Total** | **ppbv** | **161,524** | | **161,228** | | **1,246.37** | | **99.23%** | **99.23%** | **99.23%** |
| **Total** | **lb/hr** | **2.118** | | **2.112** | | **0.015** | | **99.29%** | **99.29%** | **99.29%** |

**Notes:**
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
R - Quality control indicates the data is not usable
_/ - Laboratory data qualifier
/_ - Data validation qualifier

Destruction efficiencies were not calculated if either the influent or effluent samples were estimated.
Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.
Total destruction efficiencies that include the estimated results of any individual compound will be considered an estimated value.

| System | Date | Influent Temp (°F) | Effluent Temp (°F) | Flow (scfm) |
|---|---|---|---|---|
| SBPA | 10/19/06 | 96 | 142 | 1420 |

# Table 3.2
## Thermal Oxidizer 1 Results for Method TO-14 (VOCs) - November 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 11/2/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 1 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| 1,1,1-Trichloroethane | ppbv | 18,000 | | 16,000 | | 3.4 | | 99.98% | 99.98% | 99.98% |
| 1,1,2,2-Tetrachloroethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| 1,1,2-Trichloroethane | ppbv | 51 | J/J | 56 | J/J | ND | U | NC | NC | NC |
| 1,1-Dichloroethane | ppbv | 2,100 | | 2,200 | | 1.5 | | 99.93% | 99.93% | 99.93% |
| 1,1-Dichloroethene | ppbv | 1,100 | | 840 | | 210 | | 75.00% | 80.91% | 77.95% |
| 1,2-Dichloroethane | ppbv | 300 | | 260 | | 0.81 | J/J | NC | NC | NC |
| 1,2-Dichloropropane | ppbv | 250 | | 250 | | ND | U | 100.00% | 100.00% | 100.00% |
| 2-Butanone (Methyl Ethyl Ketone) | ppbv | 580 | | 530 | J/J | 8 | | NC | NC | NC |
| 2-Hexanone | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Methyl-2-pentanone | ppbv | 660 | | 880 | | 5.2 | | 99.21% | 99.41% | 99.31% |
| Acetone | ppbv | 830 | | 910 | | 24 | | 97.11% | 97.36% | 97.24% |
| Benzene | ppbv | 2,700 | | 3,200 | | 170 | | 93.70% | 94.69% | 94.20% |
| Bromodichloromethane | ppbv | ND | U | ND | U | 0.36 | J/J | NC | NC | NC |
| Bromoform | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Bromomethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Carbon Disulfide | ppbv | ND | U | ND | U | 5.4 | | NC | NC | NC |
| Carbon Tetrachloride | ppbv | ND | U | ND | U | 1.1 | | NC | NC | NC |
| Chlorobenzene | ppbv | ND | U | ND | U | 8.8 | | NC | NC | NC |
| Chloroethane | ppbv | 180 | | 500 | | 1.6 | | 99.11% | 99.68% | 99.40% |
| Chloroform | ppbv | 4,600 | | 4,300 | | 7.4 | | 99.83% | 99.84% | 99.83% |
| Chloromethane | ppbv | ND | U | ND | U | 15 | | NC | NC | NC |
| cis-1,2-Dichloroethene | ppbv | 11,000 | | 13,000 | | 98 | | 99.11% | 99.25% | 99.18% |
| cis-1,3-Dichloropropene | ppbv | ND | U | ND | U | 0.81 | J/J | NC | NC | NC |
| Dibromochloromethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Ethyl Benzene | ppbv | 5,600 | | 6,000 | | 6 | | 99.89% | 99.90% | 99.90% |
| m,p-Xylene | ppbv | 23,000 | | 24,000 | | 30 | | 99.87% | 99.88% | 99.87% |
| Methylene Chloride | ppbv | 6,500 | | 5,600 | | 50 | | 99.11% | 99.23% | 99.17% |
| o-Xylene | ppbv | 11,000 | | 10,000 | | 11 | | 99.89% | 99.90% | 99.90% |
| Styrene | ppbv | ND | U | ND | U | 25 | | NC | NC | NC |
| Tetrachloroethene | ppbv | 26,000 | | 24,000 | | 390 | | 98.38% | 98.50% | 98.44% |
| Toluene | ppbv | 31,000 | | 33,000 | | 35 | | 99.89% | 99.89% | 99.89% |
| trans-1,2-Dichloroethene | ppbv | 95 | J/J | 100 | J/J | 61 | | NC | NC | NC |
| trans-1,3-Dichloropropene | ppbv | ND | U | ND | U | 0.72 | J/J | NC | NC | NC |
| Trichloroethene | ppbv | 15,000 | | 13,000 | | 160 | | 98.77% | 98.93% | 98.85% |
| Vinyl Chloride | ppbv | 1,200 | | 1,800 | | 91 | | 92.42% | 94.94% | 93.68% |
| **Total** | **ppbv** | **161,746** | | **160,426** | | **1,421.10** | | **99.11%** | **99.12%** | **99.12%** |
| **Total** | **lb/hr** | **4.316** | | **4.212** | | **0.037** | | **99.12%** | **99.14%** | **99.13%** |

**Notes:**
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

Destruction efficiencies were not calculated if either the influent or effluent samples were estimated.
Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.
Total destruction efficiencies that include the estimated results of any individual compound will be considered an estimated value.

| System | Date | Influent Temp (°F) | Effluent Temp (°F) | Flow (scfm) |
|---|---|---|---|---|
| SBPA | 11/02/06 | 98 | 130 | 1693 |

# Table 3.3
## Thermal Oxidizer 1 Results for Method TO-14 (VOCs) - December 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 12/11/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 1 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| 1,1,1-Trichloroethane | ppbv | 18,000 | | 19,000 | | 43 | | 99.76% | 99.77% | 99.77% |
| 1,1,2,2-Tetrachloroethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| 1,1,2-Trichloroethane | ppbv | 47 | J/J | 70 | J/J | 0.25 | J/J | NC | NC | NC |
| 1,1-Dichloroethane | ppbv | 3,100 | | 3,300 | | 7.9 | | 99.75% | 99.76% | 99.75% |
| 1,1-Dichloroethene | ppbv | 1,200 | | 1,300 | | 200 | | 83.33% | 84.62% | 83.97% |
| 1,2-Dichloroethane | ppbv | 270 | | 280 | | 0.85 | | 99.69% | 99.70% | 99.69% |
| 1,2-Dichloropropane | ppbv | 300 | | 340 | | 0.77 | | 99.74% | 99.77% | 99.76% |
| 2-Butanone (Methyl Ethyl Ketone) | ppbv | 940 | | 1,100 | | 560 | E | NC | NC | NC |
| 2-Hexanone | ppbv | ND | U | ND | U | 1.2 | J/J | NC | NC | NC |
| 4-Methyl-2-pentanone | ppbv | 1,500 | | 1,800 | | 44 | | 97.07% | 97.56% | 97.31% |
| Acetone | ppbv | 1,200 | | 1,300 | | 23 | | 98.08% | 98.23% | 98.16% |
| Benzene | ppbv | 4,800 | | 5,600 | | 120 | | 97.50% | 97.86% | 97.68% |
| Bromodichloromethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Bromoform | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Bromomethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Carbon Disulfide | ppbv | 33 | J/J | 39 | J/J | 120 | | NC | NC | NC |
| Carbon Tetrachloride | ppbv | ND | U | ND | U | 0.6 | J/J | NC | NC | NC |
| Chlorobenzene | ppbv | 69 | J/J | 97 | J/J | 6.3 | | NC | NC | NC |
| Chloroethane | ppbv | 770 | _/J | 780 | _/J | 3.2 | _/J | 99.58% | 99.59% | 99.59% |
| Chloroform | ppbv | 4,900 | | 5,300 | | 13 | | 99.73% | 99.75% | 99.74% |
| Chloromethane | ppbv | ND | U | ND | U | 8.9 | | NC | NC | NC |
| cis-1,2-Dichloroethene | ppbv | 15,000 | | 17,000 | | 87 | | 99.42% | 99.49% | 99.45% |
| cis-1,3-Dichloropropene | ppbv | ND | U | ND | U | 0.25 | J/J | NC | NC | NC |
| Dibromochloromethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Ethyl Benzene | ppbv | 9,300 | | 11,000 | | 24 | | 99.74% | 99.78% | 99.76% |
| m,p-Xylene | ppbv | 39,000 | | 46,000 | | 110 | | 99.72% | 99.76% | 99.74% |
| Methylene Chloride | ppbv | 6,600 | | 7,500 | | 50 | | 99.24% | 99.33% | 99.29% |
| o-Xylene | ppbv | 18,000 | | 21,000 | | 50 | | 99.72% | 99.76% | 99.74% |
| Styrene | ppbv | ND | U | ND | U | 12 | | NC | NC | NC |
| Tetrachloroethene | ppbv | 26,000 | | 28,000 | | 260 | | 99.00% | 99.07% | 99.04% |
| Toluene | ppbv | 41,000 | | 48,000 | | 100 | | 99.76% | 99.79% | 99.77% |
| trans-1,2-Dichloroethene | ppbv | 110 | J/J | 140 | J/J | 43 | | NC | NC | NC |
| trans-1,3-Dichloropropene | ppbv | ND | U | ND | U | 0.24 | J/J | NC | NC | NC |
| Trichloroethene | ppbv | 14,000 | | 15,000 | | 120 | | 99.14% | 99.20% | 99.17% |
| Vinyl Chloride | ppbv | 1,500 | | 1,500 | | 76 | | 94.93% | 94.93% | 94.93% |
| **Total** | **ppbv** | **207,639** | | **235,446** | | **2,085.46** | | **99.00%** | **99.11%** | **99.05%** |
| **Total** | **lb/hr** | **5.359** | | **6.040** | | **0.047** | | **99.12%** | **99.22%** | **99.17%** |

**Notes:**
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
E - Exceeds instrument calibration range
_/ - Laboratory data qualifier
/_ - Data validation qualifier

Destruction efficiencies were not calculated if either the influent or effluent samples were estimated.
Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.
Total destruction efficiencies that include the estimated results of any individual compound will be considered an estimated value.

| System | Date | Influent Temp (°F) | Effluent Temp (°F) | Flow (scfm) |
|---|---|---|---|---|
| SBPA | 12/11/06 | 100 | 142 | 1707 |

# Table 3.4
## Thermal Oxidizer 2 Results for Method TO-14 (VOCs) - October 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 10/19/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 2 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| 1,1,1-Trichloroethane | ppbv | 29,000 | _/R | 26,000 | _/R | 430 | _/R | 98.35% | 98.52% | 98.43% |
| 1,1,2,2-Tetrachloroethane | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| 1,1,2-Trichloroethane | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| 1,1-Dichloroethane | ppbv | 3,800 | _/R | 3,600 | _/R | 60 | _/R | 98.33% | 98.42% | 98.38% |
| 1,1-Dichloroethene | ppbv | 300 | J/R | 350 | _/R | 160 | _/R | NC | NC | NC |
| 1,2-Dichloroethane | ppbv | 820 | _/R | 780 | _/R | 13 | _/R | 98.33% | 98.41% | 98.37% |
| 1,2-Dichloropropane | ppbv | 290 | J/R | 240 | J/R | 3.8 | J/R | NC | NC | NC |
| 2-Butanone (Methyl Ethyl Ketone) | ppbv | 12,000 | _/R | 12,000 | _/R | 200 | _/R | 98.33% | 98.33% | 98.33% |
| 2-Hexanone | ppbv | ND | U/R | ND | U/R | 2.6 | J | NC | NC | NC |
| 4-Methyl-2-pentanone | ppbv | 6,600 | _/R | 6,100 | _/R | 61 | _/R | 99.00% | 99.08% | 99.04% |
| Acetone | ppbv | 16,000 | _/R | 19,000 | _/R | 470 | _/R | 97.06% | 97.53% | 97.29% |
| Benzene | ppbv | 15,000 | _/R | 15,000 | _/R | 480 | _/R | 96.80% | 96.80% | 96.80% |
| Bromodichloromethane | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| Bromoform | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| Bromomethane | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| Carbon Disulfide | ppbv | 210 | J/R | ND | U/R | 9.2 | J/R | NC | NC | NC |
| Carbon Tetrachloride | ppbv | ND | U/R | ND | U/R | 3.8 | J/R | NC | NC | NC |
| Chlorobenzene | ppbv | ND | U/R | ND | U/R | 4 | J/R | NC | NC | NC |
| Chloroethane | ppbv | 570 | _/R | 540 | _/R | 10 | _/R | 98.15% | 98.25% | 98.20% |
| Chloroform | ppbv | 1,800 | _/R | 1,900 | _/R | 36 | _/R | 98.00% | 98.11% | 98.05% |
| Chloromethane | ppbv | 230 | J/R | ND | U/R | ND | U/R | NC | NC | NC |
| cis-1,2-Dichloroethene | ppbv | 6,000 | _/R | 6,800 | _/R | 120 | _/R | 98.00% | 98.24% | 98.12% |
| cis-1,3-Dichloropropene | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| Dibromochloromethane | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| Ethyl Benzene | ppbv | 9,800 | _/R | 12,000 | _/R | 120 | _/R | 98.78% | 99.00% | 98.89% |
| m,p-Xylene | ppbv | 37,000 | _/R | 51,000 | _/R | 430 | _/R | 98.84% | 99.16% | 99.00% |
| Methylene Chloride | ppbv | 30,000 | _/R | 30,000 | _/R | 580 | _/R | 98.07% | 98.07% | 98.07% |
| o-Xylene | ppbv | 13,000 | _/R | 18,000 | _/R | 150 | _/R | 98.85% | 99.17% | 99.01% |
| Styrene | ppbv | ND | U/R | ND | U/R | 95 | _/R | NC | NC | NC |
| Tetrachloroethene | ppbv | 23,000 | _/R | 24,000 | _/R | 570 | _/R | 97.52% | 97.63% | 97.57% |
| Toluene | ppbv | 89,000 | _/R | 100,000 | _/R | 1,400 | _/R | 98.43% | 98.60% | 98.51% |
| trans-1,2-Dichloroethene | ppbv | ND | U/R | ND | U/R | 22.0 | _/R | NC | NC | NC |
| trans-1,3-Dichloropropene | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| Trichloroethene | ppbv | 13,000 | _/R | 14,000 | _/R | 290 | _/R | 97.77% | 97.93% | 97.85% |
| Vinyl Chloride | ppbv | 1,500 | _/R | 1,400 | _/R | 57 | _/R | 95.93% | 96.20% | 96.06% |
| **Total** | **ppbv** | **308,920** | | **342,710** | | **5,777.4** | | **98.13%** | **98.31%** | **98.22%** |
| **Total** | **lb/hr** | **7.713** | | **8.522** | | **0.1429** | | **98.15%** | **98.32%** | **98.24%** |

**Notes:**

NC - Not calculated

ND - Non-detect

ppbv - parts per billion volume

lb/hr - pounds per hour

**Qualifiers:**

J - Result is estimated

U - below reported quantitation limit

R - Quality control indicates the data is not usable

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Destruction efficiencies were not calculated if either the influent or effluent samples were estimated.

Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.

Total destruction efficiencies that include the estimated results of any individual compound will be considered an estimated value.

| System | Date | Influent Temp (°F) | Effluent Temp (°F) | Flow (scfm) |
|---|---|---|---|---|
| Off-Site | 10/19/06 | 72 | NA | 1707 |

# Table 3.5
## Thermal Oxidizer 2 Results for Method TO-14 (VOCs) - November 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 11/2/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 2 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| 1,1,1-Trichloroethane | ppbv | 20,000 | | 20,000 | | 460 | | 97.70% | 97.70% | 97.70% |
| 1,1,2,2-Tetrachloroethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| 1,1,2-Trichloroethane | ppbv | 130 | J/J | 140 | J/J | 3.5 | J/J | NC | NC | NC |
| 1,1-Dichloroethane | ppbv | 2,800 | | 2,800 | | 62 | | 97.79% | 97.79% | 97.79% |
| 1,1-Dichloroethene | ppbv | 820 | | 910 | | 180 | | 78.05% | 80.22% | 79.13% |
| 1,2-Dichloroethane | ppbv | 650 | | 630 | | 16 | | 97.46% | 97.54% | 97.50% |
| 1,2-Dichloropropane | ppbv | 160 | J/J | 210 | J/J | 4.1 | J/J | NC | NC | NC |
| 2-Butanone (Methyl Ethyl Ketone) | ppbv | 16,000 | | 13,000 | | 990 | | 92.38% | 93.81% | 93.10% |
| 2-Hexanone | ppbv | ND | U | ND | U | 8.2 | J/J | NC | NC | NC |
| 4-Methyl-2-pentanone | ppbv | 6,000 | | 5,800 | | 210 | | 96.38% | 96.50% | 96.44% |
| Acetone | ppbv | 15,000 | | 10,000 | | 1100 | | 89.00% | 92.67% | 90.83% |
| Benzene | ppbv | 11,000 | | 12,000 | | 490 | | 95.55% | 95.92% | 95.73% |
| Bromodichloromethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Bromoform | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Bromomethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Carbon Disulfide | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Carbon Tetrachloride | ppbv | ND | U | ND | U | 4.1 | J/J | NC | NC | NC |
| Chlorobenzene | ppbv | ND | U | ND | U | 4.3 | J/J | NC | NC | NC |
| Chloroethane | ppbv | ND | U | ND | U | 5.6 | J/J | NC | NC | NC |
| Chloroform | ppbv | 1,700 | | 1,700 | | 46 | | 97.29% | 97.29% | 97.29% |
| Chloromethane | ppbv | ND | U | ND | U | 17 | J/J | NC | NC | NC |
| cis-1,2-Dichloroethene | ppbv | 4,900 | | 4,700 | | 140 | | 97.02% | 97.14% | 97.08% |
| cis-1,3-Dichloropropene | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Dibromochloromethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Ethyl Benzene | ppbv | 9,200 | | 10,000 | | 180 | | 98.04% | 98.20% | 98.12% |
| m,p-Xylene | ppbv | 38,000 | | 44,000 | | 700 | | 98.16% | 98.41% | 98.28% |
| Methylene Chloride | ppbv | 15,000 | | 15,000 | | 430 | | 97.13% | 97.13% | 97.13% |
| o-Xylene | ppbv | 14,000 | | 16,000 | | 270 | | 98.07% | 98.31% | 98.19% |
| Styrene | ppbv | ND | U | ND | U | 57 | | NC | NC | NC |
| Tetrachloroethene | ppbv | 16,000 | | 17,000 | | 640 | | 96.00% | 96.24% | 96.12% |
| Toluene | ppbv | 85,000 | | 92,000 | | 1800 | | 97.88% | 98.04% | 97.96% |
| trans-1,2-Dichloroethene | ppbv | ND | U | ND | U | 16 | J/J | NC | NC | NC |
| trans-1,3-Dichloropropene | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Trichloroethene | ppbv | 13,000 | | 14,000 | | 380 | | 97.08% | 97.29% | 97.18% |
| Vinyl Chloride | ppbv | 550 | | 520 | | 54 | | 89.62% | 90.18% | 89.90% |
| **Total** | **ppbv** | **269,910** | | **280,410** | | **8,267.8** | | **96.94%** | **97.05%** | **96.99%** |
| **Total** | **lb/hr** | **4.010** | | **4.219** | | **0.1170** | | **97.08%** | **97.23%** | **97.15%** |

**Notes:**
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

*Destruction efficiencies were not calculated if either the influent or effluent samples were estimated.*
Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.
Total destruction efficiencies that include the estimated results of any individual compound will be considered an estimated value.

| System | Date | Influent Temp (°F) | Effluent Temp (°F) | Flow (scfm) |
|---|---|---|---|---|
| Off-Site | 11/02/06 | 68 | NA | 1370 |

# Table 3.6
## Thermal Oxidizer 2 Results for Method TO-14 (VOCs) - December 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 12/11/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 2 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| 1,1,1-Trichloroethane | ppbv | 22,000 | | 21,000 | | 720 | | 96.57% | 96.73% | 96.65% |
| 1,1,2,2-Tetrachloroethane | ppbv | ND | U | ND | U | 2.8 | J/J | NC | NC | NC |
| 1,1,2-Trichloroethane | ppbv | 140 | J/J | 120 | J/J | 5.4 | J/J | NC | NC | NC |
| 1,1-Dichloroethane | ppbv | 2,800 | | 2,700 | | 110 | | 95.93% | 96.07% | 96.00% |
| 1,1-Dichloroethene | ppbv | 380 | | 430 | | 190 | | 50.00% | 55.81% | 52.91% |
| 1,2-Dichloroethane | ppbv | 650 | | 650 | | 25 | | 96.15% | 96.15% | 96.15% |
| 1,2-Dichloropropane | ppbv | 200 | J/J | 190 | J/J | 7.2 | J/J | NC | NC | NC |
| 2-Butanone (Methyl Ethyl Ketone) | ppbv | 16,000 | | 2,000 | | 500 | | 75.00% | 96.88% | 85.94% |
| 2-Hexanone | ppbv | 180 | J/J | ND | U | 5.7 | J/J | NC | NC | NC |
| 4-Methyl-2-pentanone | ppbv | 6,600 | | 2,700 | | 120 | | 95.56% | 98.18% | 96.87% |
| Acetone | ppbv | 15,000 | | 8,400 | | 770 | | 90.83% | 94.87% | 92.85% |
| Benzene | ppbv | 13,000 | | 12,000 | | 820 | | 93.17% | 93.69% | 93.43% |
| Bromodichloromethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Bromoform | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Bromomethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Carbon Disulfide | ppbv | 170 | J/J | 140 | J/J | 9.8 | J/J | NC | NC | NC |
| Carbon Tetrachloride | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Chlorobenzene | ppbv | ND | U | ND | U | 3.5 | J/J | NC | NC | NC |
| Chloroethane | ppbv | ND | U | ND | U | ND | U/R | NC | NC | NC |
| Chloroform | ppbv | 1,800 | | 1,800 | | 77 | | 95.72% | 95.72% | 95.72% |
| Chloromethane | ppbv | ND | U | ND | U | 18 | J/J | NC | NC | NC |
| cis-1,2-Dichloroethene | ppbv | 1,400 | | 1,300 | | 81 | | 93.77% | 94.21% | 93.99% |
| cis-1,3-Dichloropropene | ppbv | ND | U/R | ND | U/R | ND | U/R | NC | NC | NC |
| Dibromochloromethane | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Ethyl Benzene | ppbv | 9,700 | | 9,100 | | 270 | | 97.03% | 97.22% | 97.12% |
| m,p-Xylene | ppbv | 40,000 | | 38,000 | | 1100 | | 97.11% | 97.25% | 97.18% |
| Methylene Chloride | ppbv | 19,000 | | 18,000 | | 870 | | 95.17% | 95.42% | 95.29% |
| o-Xylene | ppbv | 15,000 | | 14,000 | | 400 | | 97.14% | 97.33% | 97.24% |
| Styrene | ppbv | ND | U | ND | U | 150 | | NC | NC | NC |
| Tetrachloroethene | ppbv | 16,000 | | 16,000 | | 780 | | 95.13% | 95.13% | 95.13% |
| Toluene | ppbv | 83,000 | | 79,000 | | 2900 | | 96.33% | 96.51% | 96.42% |
| trans-1,2-Dichloroethene | ppbv | ND | U | ND | U | 12 | J/J | NC | NC | NC |
| trans-1,3-Dichloropropene | ppbv | ND | U | ND | U | ND | U | NC | NC | NC |
| Trichloroethene | ppbv | 13,000 | | 12,000 | | 550 | | 95.42% | 95.77% | 95.59% |
| Vinyl Chloride | ppbv | ND | U | ND | U | 40 | | NC | NC | NC |
| **Total** | **ppbv** | **276,020** | | **239,530** | | **10,537.4** | | **95.60%** | **96.18%** | **95.89%** |
| **Total** | **lb/hr** | **4.104** | | **3.663** | | **0.155** | | **95.77%** | **96.22%** | **96.00%** |

**Notes:**
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
R - Quality control indicates the data is not usable
_/ - Laboratory data qualifier
/_ - Data validation qualifier

Destruction efficiencies were not calculated if either the influent or effluent samples were estimated.
Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.
Total destruction efficiencies that include the estimated results of any individual compound will be considered an estimated value.

| System | Date | Influent Temp (°F) | Effluent Temp (°F) | Flow (scfm) |
|---|---|---|---|---|
| Off-Site | 39062 | 66 | NA | 1090 |

# Table 3.7
# SBPA and Off-Site ISVE System Results
# for Method TO-14 (VOCs) - October 2006
# American Chemical Service
# Griffith, Indiana

| | | Sampled 10/19/2006 | | | |
|---|---|---|---|---|---|
| **Compounds** | **Units** | **SBPA ISVE** | | **Off-Site ISVE** | |
| 1,1,1-Trichloroethane | ppbv | 9,700 | _/R | 36,000 | _/R |
| 1,1,2,2-Tetrachloroethane | ppbv | ND | U/R | ND | U/R |
| 1,1,2-Trichloroethane | ppbv | ND | U/R | ND | U/R |
| 1,1-Dichloroethane | ppbv | 1,400 | _/R | 4,600 | _/R |
| 1,1-Dichloroethene | ppbv | 230 | _/R | 350 | J/R |
| 1,2-Dichloroethane | ppbv | 240 | _/R | 900 | _/R |
| 1,2-Dichloropropane | ppbv | 210 | _/R | 320 | J/R |
| 2-Butanone (Methyl Ethyl Ketone) | ppbv | 420 | J/J | 16,000 | _/R |
| 2-Hexanone | ppbv | ND | U/R | 280.0 | J/R |
| 4-Methyl-2-pentanone | ppbv | 1,700 | _/R | 9,500 | _/R |
| Acetone | ppbv | 750 | _/R | 24,000 | _/R |
| Benzene | ppbv | 4,700 | _/R | 18,000 | _/R |
| Bromodichloromethane | ppbv | ND | U/R | ND | U/R |
| Bromoform | ppbv | ND | U/R | ND | U/R |
| Bromomethane | ppbv | ND | U/R | ND | U/R |
| Carbon Disulfide | ppbv | ND | U/R | 180 | J/R |
| Carbon Tetrachloride | ppbv | ND | U/R | ND | U/R |
| Chlorobenzene | ppbv | 59 | J/J | ND | U/R |
| Chloroethane | ppbv | 160 | _/R | ND | U/R |
| Chloroform | ppbv | 3,600 | _/R | 2,500 | _/R |
| Chloromethane | ppbv | ND | U/R | ND | U/R |
| cis-1,2-Dichloroethene | ppbv | 8,700 | _/R | 1,400 | _/R |
| cis-1,3-Dichloropropene | ppbv | ND | U/R | ND | U/R |
| Dibromochloromethane | ppbv | ND | U/R | ND | U/R |
| Ethyl Benzene | ppbv | 8,100 | _/R | 13,000 | _/R |
| m,p-Xylene | ppbv | 33,000 | _/R | 50,000 | _/R |
| Methylene Chloride | ppbv | 4,800 | _/R | 44,000 | _/R |
| o-Xylene | ppbv | 12,000 | _/R | 18,000 | _/R |
| Styrene | ppbv | ND | U/R | ND | U/R |
| Tetrachloroethene | ppbv | 24,000 | _/R | 26,000 | _/R |
| Toluene | ppbv | 35,000 | _/R | 120,000 | _/R |
| trans-1,2-Dichloroethene | ppbv | ND | U/R | ND | U/R |
| trans-1,3-Dichloropropene | ppbv | ND | U/R | ND | U/R |
| Trichloroethene | ppbv | 9,300 | _/R | 16,000 | _/R |
| Vinyl Chloride | ppbv | 1,400 | _/R | 330 | J/R |
| **Total** | **ppbv** | **159,469** | | **401,360** | |
| **Total** | **lb/hr** | **2.076** | | **9.919** | |

**Notes:**

ND - Non-detect

ppbv - parts per billion volume

lb/hr - pounds per hour

**Qualifiers:**

J - Result is estimated

U - below reported quantitation limit

R - Quality control indicates the data is not usable

_/ - Laboratory data qualifier

/_ - Data validation qualifier

| System | Date | Temp (°F) | Flow (scfm) |
|---|---|---|---|
| Off-Site | 10/19/06 | 25 | 1707 |
| SBPA | 10/19/06 | 96 | 1420 |

# Table 3.8
# SBPA and Off-Site ISVE System Results
# for Method TO-14 (VOCs) - November 2006
# American Chemical Service
# Griffith, Indiana

| | | Sampled 11/2/2006 | | | |
|---|---|---|---|---|---|
| **Compounds** | **Units** | **SBPA ISVE** | | **Off-Site ISVE** | |
| 1,1,1-Trichloroethane | ppbv | 18,000 | | 25,000 | |
| 1,1,2,2-Tetrachloroethane | ppbv | ND | U | ND | U |
| 1,1,2-Trichloroethane | ppbv | ND | U | 180 | J/J |
| 1,1-Dichloroethane | ppbv | 2,300 | | 3,100 | |
| 1,1-Dichloroethene | ppbv | 1,100 | | 1,900 | |
| 1,2-Dichloroethane | ppbv | 290 | | 840 | |
| 1,2-Dichloropropane | ppbv | 270 | | 220 | J/J |
| 2-Butanone (Methyl Ethyl Ketone) | ppbv | 810 | | 16,000 | |
| 2-Hexanone | ppbv | ND | U | ND | U |
| 4-Methyl-2-pentanone | ppbv | 1,000 | | 7,500 | |
| Acetone | ppbv | 1,300 | | 13,000 | |
| Benzene | ppbv | 3,500 | | 13,000 | |
| Bromodichloromethane | ppbv | ND | U | ND | U |
| Bromoform | ppbv | ND | U | ND | U |
| Bromomethane | ppbv | ND | U | ND | U |
| Carbon Disulfide | ppbv | ND | U | ND | U |
| Carbon Tetrachloride | ppbv | ND | U | ND | U |
| Chlorobenzene | ppbv | ND | U | ND | U |
| Chloroethane | ppbv | 380 | | ND | U |
| Chloroform | ppbv | 4,700 | | 2,200 | |
| Chloromethane | ppbv | ND | U | ND | U |
| cis-1,2-Dichloroethene | ppbv | 14,000 | | 1,600 | |
| cis-1,3-Dichloropropene | ppbv | ND | U | ND | U |
| Dibromochloromethane | ppbv | ND | U | ND | U |
| Ethyl Benzene | ppbv | 7,300 | | 14,000 | |
| m,p-Xylene | ppbv | 29,000 | | 57,000 | |
| Methylene Chloride | ppbv | 5,600 | | 22,000 | |
| o-Xylene | ppbv | 13,000 | | 21,000 | |
| Styrene | ppbv | ND | U | ND | U |
| Tetrachloroethene | ppbv | 26,000 | | 22,000 | |
| Toluene | ppbv | 39,000 | | 110,000 | |
| trans-1,2-Dichloroethene | ppbv | 110 | J/J | ND | U |
| trans-1,3-Dichloropropene | ppbv | ND | U | ND | U |
| Trichloroethene | ppbv | 14,000 | | 17,000 | |
| Vinyl Chloride | ppbv | 1,800 | | ND | U |
| **Total** | **ppbv** | **183,460** | | **347,540** | |
| **Total** | **lb/hr** | **4.792** | | **5.247** | |

**Notes:**

ND - Non-detect

ppbv - parts per billion volume

lb/hr - pounds per hour

**Qualifiers:**

J - Result is estimated

U - below reported quantitation limit

_/ - Laboratory data qualifier

/_ - Data validation qualifier

| System | Date | Temp (F) | Flow (scfm) |
|---|---|---|---|
| Off-Site | 11/02/06 | 68 | 1370 |
| SBPA | 11/02/06 | 96 | 1693 |

# Table 3.9
# SBPA and Off-Site ISVE System Results
# for Method TO-14 (VOCs) - December 2006
# American Chemical Service
# Griffith, Indiana

| | | Sampled 12/11/06 | | | |
|---|---|---|---|---|---|
| **Compounds** | **Units** | **SBPA ISVE** | | **Off-Site ISVE** | |
| 1,1,1-Trichloroethane | ppbv | 17,000 | | 21,000 | |
| 1,1,2,2-Tetrachloroethane | ppbv | ND | U | ND | U |
| 1,1,2-Trichloroethane | ppbv | 66 | J/J | 160 | J/J |
| 1,1-Dichloroethane | ppbv | 2,900 | | 2,700 | |
| 1,1-Dichloroethene | ppbv | 1,100 | | 360 | |
| 1,2-Dichloroethane | ppbv | 250 | | 660 | |
| 1,2-Dichloropropane | ppbv | 290 | | 180 | J/J |
| 2-Butanone (Methyl Ethyl Ketone) | ppbv | 1,000 | | 16,000 | |
| 2-Hexanone | ppbv | ND | U | 220 | J/J |
| 4-Methyl-2-pentanone | ppbv | 1,600 | | 7,100 | |
| Acetone | ppbv | 1,200 | | 16,000 | |
| Benzene | ppbv | 5,200 | | 12,000 | |
| Bromodichloromethane | ppbv | ND | U | ND | U |
| Bromoform | ppbv | ND | U | ND | U |
| Bromomethane | ppbv | ND | U | ND | U |
| Carbon Disulfide | ppbv | 77 | J/J | 440 | J/J |
| Carbon Tetrachloride | ppbv | ND | U | ND | U |
| Chlorobenzene | ppbv | 57 | J/J | ND | U |
| Chloroethane | ppbv | 640 | _/J | ND | U |
| Chloroform | ppbv | 4,600 | | 1,800 | |
| Chloromethane | ppbv | ND | U | ND | U |
| cis-1,2-Dichloroethene | ppbv | 14,000 | | 1,400 | |
| cis-1,3-Dichloropropene | ppbv | ND | U | ND | U |
| Dibromochloromethane | ppbv | ND | U | ND | U |
| Ethyl Benzene | ppbv | 10,000 | | 10,000 | |
| m,p-Xylene | ppbv | 44,000 | | 44,000 | |
| Methylene Chloride | ppbv | 6,400 | | 19,000 | |
| o-Xylene | ppbv | 20,000 | | 17,000 | |
| Styrene | ppbv | ND | U | ND | U |
| Tetrachloroethene | ppbv | 25,000 | | 16,000 | |
| Toluene | ppbv | 42,000 | | 86,000 | |
| trans-1,2-Dichloroethene | ppbv | 120 | J/J | ND | U |
| trans-1,3-Dichloropropene | ppbv | ND | U | ND | U |
| Trichloroethene | ppbv | 13,000 | | 13,000 | |
| Vinyl Chloride | ppbv | 1,300 | | ND | U |
| **Total** | **ppbv** | **211,800** | | **285,020** | |
| **Total** | **lb/hr** | **5.435** | | **4.230** | |

**Notes:**
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

| System | Date | Temp (F) | Flow (scfm) |
|---|---|---|---|
| Off-Site | 12/11/06 | 64 | 1090 |
| SBPA | 12/11/06 | 98 | 1707 |

CRS/JEF/CAD
J:\405\0577 ACS\0201 Engr\05770201a034.xls\Table 3.9

# Table 3.10
## Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - October 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 10/19/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 1 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| 1,2,4-Trichlorobenzene | µg | 0.72 | J | 0.91 | J | ND | U | NC | NC | NC |
| 1,2-Dichlorobenzene | µg | 24 | | 28 | | ND | U | 100.00% | 100.00% | 100.00% |
| 1,3-Dichlorobenzene | µg | 2.6 | | 2.9 | | ND | U | 100.00% | 100.00% | 100.00% |
| 1,4-Dichlorobenzene | µg | 5.7 | | 6.7 | | ND | U | 100.00% | 100.00% | 100.00% |
| 2,4,5-Trichlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4,6-Trichlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dichlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dimethylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dinitrophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dinitrotoluene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,6-Dinitrotoluene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Chloronaphthalene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Chlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Methylnaphthalene | µg | 14 | | 19 | | ND | U | 100.00% | 100.00% | 100.00% |
| 2-Methylphenol (o-Cresol) | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Nitroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Nitrophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 3,3-Dichlorobenzidine | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 3-Nitroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4,6-Dinitro-2-methylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Bromophenyl-phenyl Ether | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Chloro-3-methylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Chloroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Chlorophenyl-phenyl Ether | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Methylphenol/3-Methylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Nitroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Nitrophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Acenaphthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Acenaphthylene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Anthracene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(a)anthracene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(a)pyrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(b)fluoranthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(g,h,i)perylene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(k)fluoranthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| bis(2-Chloroethoxy) Methane | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| bis(2-Chloroethyl) Ether | µg | ND | | 2.8 | | ND | U | NC | NC | NC |
| bis(2-Ethylhexyl)phthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Butylbenzylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Chrysene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Dibenz(a,h)anthracene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Dibenzofuran | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Diethylphthalate | µg | ND | U | 1 | J | 0.93 | J | NC | NC | NC |
| Dimethylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| di-n-Butylphthalate | µg | ND | U | 1 | J | ND | U | NC | NC | NC |
| Di-n-Octylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Fluoranthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Fluorene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Hexachlorobenzene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Hexachlorobutadiene | µg | 8.8 | | 11 | | ND | U | 100.00% | 100.00% | 100.00% |
| Hexachlorocyclopentadiene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Hexachloroethane | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Indeno(1,2,3-c,d)pyrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Isophorone | µg | 3 | | 3.8 | | ND | U | 100.00% | 100.00% | 100.00% |

# Table 3.10
## Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - October 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 10/19/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 1 | | | | | | Destruction Efficiency | | |
| **Compounds** | **Units** | **Influent** | | **Influent Dup** | | **Effluent** | | **Low** | **High** | **Average** |
| Naphthalene | µg | 25 | | 32 | | ND | U | 100.00% | 100.00% | 100.00% |
| Nitrobenzene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| N-Nitroso-di-n-propylamine | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| N-Nitrosodiphenylamine | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Pentachlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Phenanthrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Phenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Pyrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| **Total** | µg | **83.82** | | **109.11** | | **0.93** | | **98.89%** | **99.15%** | **99.02%** |

**Notes:**
µg - Microgram
NC - Not calculated
ND - Non-detect

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

# Table 3.11
## Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - November 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 11/2/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 1 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| 1,2,4-Trichlorobenzene | µg | NS | | 12 | | ND | U | NC | NC | NC |
| 1,2-Dichlorobenzene | µg | NS | | 26 | | ND | U | NC | NC | NC |
| 1,3-Dichlorobenzene | µg | NS | | 3.1 | | ND | U | NC | NC | NC |
| 1,4-Dichlorobenzene | µg | NS | | 6.6 | | ND | U | NC | NC | NC |
| 2,4,5-Trichlorophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2,4,6-Trichlorophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2,4-Dichlorophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2,4-Dimethylphenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2,4-Dinitrophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2,4-Dinitrotoluene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2,6-Dinitrotoluene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2-Chloronaphthalene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2-Chlorophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2-Methylnaphthalene | µg | NS | | 9.6 | | ND | U | NC | NC | NC |
| 2-Methylphenol (o-Cresol) | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2-Nitroaniline | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2-Nitrophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 3,3-Dichlorobenzidine | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 3-Nitroaniline | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4,6-Dinitro-2-methylphenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Bromophenyl-phenyl Ether | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Chloro-3-methylphenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Chloroaniline | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Chlorophenyl-phenyl Ether | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Methylphenol/3-Methylphenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Nitroaniline | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Nitrophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Acenaphthene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Acenaphthylene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Anthracene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Benzo(a)anthracene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Benzo(a)pyrene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Benzo(b)fluoranthene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Benzo(g,h,i)perylene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Benzo(k)fluoranthene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| bis(2-Chloroethoxy) Methane | µg | NS | | ND | U | ND | U | NC | NC | NC |
| bis(2-Chloroethyl) Ether | µg | NS | | 2.9 | | ND | U | NC | NC | NC |
| bis(2-Ethylhexyl)phthalate | µg | NS | | 1.5 | J/J | ND | U | NC | NC | NC |
| Butylbenzylphthalate | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Chrysene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Dibenz(a,h)anthracene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Dibenzofuran | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Diethylphthalate | µg | NS | | ND | U | ND | J/J | NC | NC | NC |
| Dimethylphthalate | µg | NS | | ND | U | ND | U | NC | NC | NC |
| di-n-Butylphthalate | µg | NS | | 1.1 | J/J | 1.3 | J/J | NC | NC | NC |
| Di-n-Octylphthalate | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Fluoranthene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Fluorene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Hexachlorobenzene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Hexachlorobutadiene | µg | NS | | 11 | | ND | U | NC | NC | NC |
| Hexachlorocyclopentadiene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Hexachloroethane | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Indeno(1,2,3-c,d)pyrene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Isophorone | µg | NS | | 3 | | ND | U | NC | NC | NC |

# Table 3.11
## Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - November 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 11/2/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 1 | | | | | | Destruction Efficiency | | |
| **Compounds** | **Units** | **Influent** | | **Influent Dup** | | **Effluent** | | **Low** | **High** | **Average** |
| Naphthalene | µg | NS | | 18 | | ND | U | NC | NC | NC |
| Nitrobenzene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| N-Nitroso-di-n-propylamine | µg | NS | | ND | U | ND | U | NC | NC | NC |
| N-Nitrosodiphenylamine | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Pentachlorophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Phenanthrene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Phenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Pyrene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| **Total** | µg | **NS** | | **94.80** | | **1.3** | | **NC** | **NC** | **NC** |

**Notes:**
µg - Microgram
NC - Not calculated
ND - Non-detect

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

# Table 3.12
## Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - December 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 12/11/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 1 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| 1,2,4-Trichlorobenzene | µg | 13 | | 15 | | ND | U | 100.00% | 100.00% | 100.00% |
| 1,2-Dichlorobenzene | µg | 23 | | 25 | | ND | U | 100.00% | 100.00% | 100.00% |
| 1,3-Dichlorobenzene | µg | 2.8 | | 3 | | ND | U | 100.00% | 100.00% | 100.00% |
| 1,4-Dichlorobenzene | µg | 5.8 | | 6 | | ND | U | 100.00% | 100.00% | 100.00% |
| 2,4,5-Trichlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4,6-Trichlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dichlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dimethylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dinitrophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dinitrotoluene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,6-Dinitrotoluene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Chloronaphthalene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Chlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Methylnaphthalene | µg | 10 | | 11 | | ND | U | 100.00% | 100.00% | 100.00% |
| 2-Methylphenol (o-Cresol) | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Nitroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Nitrophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 3,3-Dichlorobenzidine | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 3-Nitroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4,6-Dinitro-2-methylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Bromophenyl-phenyl Ether | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Chloro-3-methylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Chloroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Chlorophenyl-phenyl Ether | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Methylphenol/3-Methylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Nitroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Nitrophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Acenaphthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Acenaphthylene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Anthracene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(a)anthracene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(a)pyrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(b)fluoranthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(g,h,i)perylene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(k)fluoranthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| bis(2-Chloroethoxy) Methane | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| bis(2-Chloroethyl) Ether | µg | 2.6 | | 2.7 | | ND | U | 100.00% | 100.00% | 100.00% |
| bis(2-Ethylhexyl)phthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Butylbenzylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Chrysene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Dibenz(a,h)anthracene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Dibenzofuran | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Diethylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Dimethylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| di-n-Butylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Di-n-Octylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Fluoranthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Fluorene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Hexachlorobenzene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Hexachlorobutadiene | µg | 10 | | 11 | | ND | U | 100.00% | 100.00% | 100.00% |
| Hexachlorocyclopentadiene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Hexachloroethane | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Indeno(1,2,3-c,d)pyrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Isophorone | µg | 2.4 | | 2.4 | | ND | U | 100.00% | 100.00% | 100.00% |

# Table 3.12
## Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - December 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 12/11/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 1 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| Naphthalene | µg | 17 | | 19 | | ND | U | 100.00% | 100.00% | 100.00% |
| Nitrobenzene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| N-Nitroso-di-n-propylamine | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| N-Nitrosodiphenylamine | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Pentachlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Phenanthrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Phenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Pyrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| **Total** | µg | | | **95.10** | | **0.0** | | **NC** | **NC** | **NC** |

**Notes:**
µg - Microgram
NC - Not calculated
ND - Non-detect

**Qualifiers:**
U - below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

# Table 3.13
## Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - October 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 10/19/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 2 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| 1,2,4-Trichlorobenzene | µg | 1.2 | | 1.7 | | ND | U | 100.00% | 100.00% | 100.00% |
| 1,2-Dichlorobenzene | µg | 42 | | 52 | | ND | U | 100.00% | 100.00% | 100.00% |
| 1,3-Dichlorobenzene | µg | 1.4 | | 1.7 | | ND | U | 100.00% | 100.00% | 100.00% |
| 1,4-Dichlorobenzene | µg | 5.1 | | 6.3 | | ND | U | 100.00% | 100.00% | 100.00% |
| 2,4,5-Trichlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4,6-Trichlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dichlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dimethylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dinitrophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dinitrotoluene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,6-Dinitrotoluene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Chloronaphthalene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Chlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Methylnaphthalene | µg | 4.8 | | 6 | | ND | U | 100.00% | 100.00% | 100.00% |
| 2-Methylphenol (o-Cresol) | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Nitroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Nitrophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 3,3'-Dichlorobenzidine | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 3-Nitroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4,6-Dinitro-2-methylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Bromophenyl-phenyl Ether | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Chloro-3-methylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Chloroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Chlorophenyl-phenyl Ether | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Methylphenol/3-Methylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Nitroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Nitrophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Acenaphthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Acenaphthylene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Anthracene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(a)anthracene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(a)pyrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(b)fluoranthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(g,h,i)perylene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(k)fluoranthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| bis(2-Chloroethoxy) Methane | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| bis(2-Chloroethyl) Ether | µg | 3.4 | | 4.4 | | ND | U | 100.00% | 100.00% | 100.00% |
| bis(2-Ethylhexyl)phthalate | µg | 12 | | 2.6 | J | 1.4 | J | NC | NC | NC |
| Butylbenzylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Chrysene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Dibenz(a,h)anthracene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Dibenzofuran | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Diethylphthalate | µg | 0.81 | J | 1.1 | J | 0.92 | J | NC | NC | NC |
| Dimethylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| di-n-Butylphthalate | µg | ND | U | 0.89 | J | ND | U | NC | NC | NC |
| Di-n-Octylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Fluoranthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Fluorene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Hexachlorobenzene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Hexachlorobutadiene | µg | 2.1 | | 2.9 | | ND | U | 100.00% | 100.00% | 100.00% |
| Hexachlorocyclopentadiene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Hexachloroethane | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Indeno(1,2,3-c,d)pyrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Isophorone | µg | 12 | | 16 | | ND | U | 100.00% | 100.00% | 100.00% |

# Table 3.13
## Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - October 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 10/19/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 2 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| Naphthalene | µg | 24 | | 32 | | ND | U | 100.00% | 100.00% | 100.00% |
| Nitrobenzene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| N-Nitroso-di-n-propylamine | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| N-Nitrosodiphenylamine | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Pentachlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Phenanthrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Phenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Pyrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| **Total** | µg | **108.81** | | **127.59** | | **2.32** | | **97.87%** | **98.18%** | **98.02%** |

**Notes:**
µg - Microgram
NC - Not calculated
ND - Non-detect

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

# Table 3.14
## Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - November 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 11/2/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 2 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| 1,2,4-Trichlorobenzene | µg | NS | | 0.67 | J/J | ND | U | NC | NC | NC |
| 1,2-Dichlorobenzene | µg | NS | | 24 | | 1.4 | | NC | NC | NC |
| 1,3-Dichlorobenzene | µg | NS | | 1 | | ND | U | NC | NC | NC |
| 1,4-Dichlorobenzene | µg | NS | | 3.2 | | ND | U | NC | NC | NC |
| 2,4,5-Trichlorophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2,4,6-Trichlorophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2,4-Dichlorophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2,4-Dimethylphenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2,4-Dinitrophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2,4-Dinitrotoluene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2,6-Dinitrotoluene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2-Chloronaphthalene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2-Chlorophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2-Methylnaphthalene | µg | NS | | 2.2 | | ND | U | NC | NC | NC |
| 2-Methylphenol (o-Cresol) | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2-Nitroaniline | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 2-Nitrophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 3,3'-Dichlorobenzidine | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 3-Nitroaniline | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4,6-Dinitro-2-methylphenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Bromophenyl-phenyl Ether | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Chloro-3-methylphenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Chloroaniline | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Chlorophenyl-phenyl Ether | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Methylphenol/3-Methylphenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Nitroaniline | µg | NS | | ND | U | ND | U | NC | NC | NC |
| 4-Nitrophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Acenaphthene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Acenaphthylene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Anthracene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Benzo(a)anthracene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Benzo(a)pyrene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Benzo(b)fluoranthene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Benzo(g,h,i)perylene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Benzo(k)fluoranthene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| bis(2-Chloroethoxy) Methane | µg | NS | | ND | U | ND | U | NC | NC | NC |
| bis(2-Chloroethyl) Ether | µg | NS | | 2.2 | | ND | U | NC | NC | NC |
| bis(2-Ethylhexyl)phthalate | µg | NS | | 1.1 | J/J | 3.8 | J/J | NC | NC | NC |
| Butylbenzylphthalate | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Chrysene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Dibenz(a,h)anthracene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Dibenzofuran | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Diethylphthalate | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Dimethylphthalate | µg | NS | | ND | U | ND | U | NC | NC | NC |
| di-n-Butylphthalate | µg | NS | | 1.1 | J/J | 1.1 | J/J | NC | NC | NC |
| Di-n-Octylphthalate | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Fluoranthene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Fluorene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Hexachlorobenzene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Hexachlorobutadiene | µg | NS | | 1.2 | | ND | U | NC | NC | NC |
| Hexachlorocyclopentadiene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Hexachloroethane | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Indeno(1,2,3-c,d)pyrene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Isophorone | µg | NS | | 5.3 | | ND | U | NC | NC | NC |

# Table 3.14
## Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - November 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 11/2/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 2 | | | | | | Destruction Efficiency | | |
| **Compounds** | **Units** | **Influent** | | **Influent Dup** | | **Effluent** | | **Low** | **High** | **Average** |
| Naphthalene | µg | NS | | 12 | | 2 | | NC | NC | NC |
| Nitrobenzene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| N-Nitroso-di-n-propylamine | µg | NS | | ND | U | ND | U | NC | NC | NC |
| N-Nitrosodiphenylamine | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Pentachlorophenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Phenanthrene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Phenol | µg | NS | | ND | U | ND | U | NC | NC | NC |
| Pyrene | µg | NS | | ND | U | ND | U | NC | NC | NC |
| **Total** | µg | **0.00** | | **53.97** | | **8.30** | | **NC** | **NC** | **NC** |

**Notes:**
µg - Microgram
NC - Not calculated
ND - Non-detect

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

# Table 3.15
## *Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - December 2006*
## American Chemical Service
## Griffith, Indiana

| | | Sampled 12/11/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 2 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| 1,2,4-Trichlorobenzene | µg | 1.1 | | 2.4 | | ND | U | 100.00% | 100.00% | 100.00% |
| 1,2-Dichlorobenzene | µg | 39 | | 72 | | 3.2 | U | 91.79% | 95.56% | 93.68% |
| 1,3-Dichlorobenzene | µg | 1.6 | | 3 | | ND | U | 100.00% | 100.00% | 100.00% |
| 1,4-Dichlorobenzene | µg | 5.1 | | 9.1 | | ND | U | 100.00% | 100.00% | 100.00% |
| 2,4,5-Trichlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4,6-Trichlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dichlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dimethylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dinitrophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,4-Dinitrotoluene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2,6-Dinitrotoluene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Chloronaphthalene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Chlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Methylnaphthalene | µg | 4.1 | | 8 | | 0.65 | J/J | NC | NC | NC |
| 2-Methylphenol (o-Cresol) | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Nitroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 2-Nitrophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 3,3'-Dichlorobenzidine | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 3-Nitroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4,6-Dinitro-2-methylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Bromophenyl-phenyl Ether | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Chloro-3-methylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Chloroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Chlorophenyl-phenyl Ether | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Methylphenol/3-Methylphenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Nitroaniline | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| 4-Nitrophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Acenaphthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Acenaphthylene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Anthracene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(a)anthracene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(a)pyrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(b)fluoranthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(g,h,i)perylene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Benzo(k)fluoranthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| bis(2-Chloroethoxy) Methane | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| bis(2-Chloroethyl) Ether | µg | 3.1 | | 6.1 | | ND | U | 100.00% | 100.00% | 100.00% |
| bis(2-Ethylhexyl)phthalate | µg | 1.3 | J/J | 1.4 | J/J | 7.8 | | NC | NC | NC |
| Butylbenzylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Chrysene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Dibenz(a,h)anthracene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Dibenzofuran | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Diethylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Dimethylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| di-n-Butylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Di-n-Octylphthalate | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Fluoranthene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Fluorene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Hexachlorobenzene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Hexachlorobutadiene | µg | 2.1 | | 4.4 | | ND | U | 100.00% | 100.00% | 100.00% |
| Hexachlorocyclopentadiene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Hexachloroethane | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Indeno(1,2,3-c,d)pyrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Isophorone | µg | 11 | | 22 | | ND | U | 100.00% | 100.00% | 100.00% |

# Table 3.15
## Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - December 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 12/11/06 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Therm-Ox 2 | | | | | | Destruction Efficiency | | |
| Compounds | Units | Influent | | Influent Dup | | Effluent | | Low | High | Average |
| Naphthalene | µg | 22 | | 44 | | 4.6 | | 79.09% | 89.55% | 84.32% |
| Nitrobenzene | µg | 2.7 | | ND | U | ND | U | NC | NC | NC |
| N-Nitroso-di-n-propylamine | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| N-Nitrosodiphenylamine | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Pentachlorophenol | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Phenanthrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| Phenol | µg | ND | U | 3.2 | J/J | ND | U | NC | NC | NC |
| Pyrene | µg | ND | U | ND | U | ND | U | NC | NC | NC |
| **Total** | µg | **93.10** | | **175.60** | | **16.25** | | **82.55%** | **90.75%** | **86.65%** |

**Notes:**
µg - Microgram
NC - Not calculated
ND - Non-detect

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

# Table 3.16
## SBPA and Off-Site ISVE System Results
## for Method TO-13 (SVOCs) - October 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 10/19/2006 | | | |
|---|---|---|---|---|---|
| Compounds | Units | SBPA ISVE | | Off-Site ISVE | |
| 1,2,4-Trichlorobenzene | µg | 0.53 | J | 4.5 | |
| 1,2-Dichlorobenzene | µg | 22 | | 88 | |
| 1,3-Dichlorobenzene | µg | 2.3 | | 2.6 | |
| 1,4-Dichlorobenzene | µg | 5 | | 10 | |
| 2,4,5-Trichlorophenol | µg | ND | U | ND | U |
| 2,4,6-Trichlorophenol | µg | ND | U | ND | U |
| 2,4-Dichlorophenol | µg | ND | U | ND | U |
| 2,4-Dimethylphenol | µg | ND | U | ND | U |
| 2,4-Dinitrophenol | µg | ND | U | ND | U |
| 2,4-Dinitrotoluene | µg | ND | U | ND | U |
| 2,6-Dinitrotoluene | µg | ND | U | ND | U |
| 2-Chloronaphthalene | µg | ND | U | ND | U |
| 2-Chlorophenol | µg | ND | U | ND | U |
| 2-Methylnaphthalene | µg | 12 | | 21 | |
| 2-Methylphenol (o-Cresol) | µg | ND | U | ND | U |
| 2-Nitroaniline | µg | ND | U | ND | U |
| 2-Nitrophenol | µg | ND | U | ND | U |
| 3,3'-Dichlorobenzidine | µg | ND | U | ND | U |
| 3-Nitroaniline | µg | ND | U | ND | U |
| 4,6-Dinitro-2-methylphenol | µg | ND | U | ND | U |
| 4-Bromophenyl-phenyl Ether | µg | ND | U | ND | U |
| 4-Chloro-3-methylphenol | µg | ND | U | ND | U |
| 4-Chloroaniline | µg | ND | U | ND | U |
| 4-Chlorophenyl-phenyl Ether | µg | ND | U | ND | U |
| 4-Methylphenol/3-Methylphenol | µg | ND | U | 4.8 | J |
| 4-Nitroaniline | µg | ND | U | ND | U |
| 4-Nitrophenol | µg | ND | U | ND | U |
| Acenaphthene | µg | ND | U | ND | U |
| Acenaphthylene | µg | ND | U | ND | U |
| Anthracene | µg | ND | U | ND | U |
| Benzo(a)anthracene | µg | ND | U | ND | U |
| Benzo(a)pyrene | µg | ND | U | ND | U |
| Benzo(b)fluoranthene | µg | ND | U | ND | U |
| Benzo(g,h,i)perylene | µg | ND | U | ND | U |
| Benzo(k)fluoranthene | µg | ND | U | ND | U |
| bis(2-Chloroethoxy) Methane | µg | ND | U | ND | U |
| bis(2-Chloroethyl) Ether | µg | 2.1 | | 9.2 | |
| bis(2-Ethylhexyl)phthalate | µg | 14 | | 4.2 | J |
| Butylbenzylphthalate | µg | ND | U | ND | U |
| Chrysene | µg | ND | U | ND | U |
| Dibenz(a,h)anthracene | µg | ND | U | ND | U |
| Dibenzofuran | µg | ND | U | ND | U |
| Diethylphthalate | µg | 1.3 | J | ND | U |
| Dimethylphthalate | µg | ND | U | ND | U |
| di-n-Butylphthalate | µg | ND | U | 0.99 | J |
| Di-n-Octylphthalate | µg | ND | U | ND | U |
| Fluoranthene | µg | ND | U | ND | U |
| Fluorene | µg | ND | U | ND | U |
| Hexachlorobenzene | µg | ND | U | ND | U |
| Hexachlorobutadiene | µg | 8.2 | | 5.9 | |
| Hexachlorocyclopentadiene | µg | ND | U | ND | U |
| Hexachloroethane | µg | ND | U | ND | U |
| Indeno(1,2,3-c,d)pyrene | µg | ND | U | ND | U |
| Isophorone | µg | 5.9 | | 49 | |

# Table 3.16
## SBPA and Off-Site ISVE System Results
## for Method TO-13 (SVOCs) - October 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 10/19/2006 | | | |
|---|---|---|---|---|---|
| **Compounds** | **Units** | **SBPA ISVE** | | **Off-Site ISVE** | |
| Naphthalene | µg | 22 | | 100 | |
| Nitrobenzene | µg | ND | U | ND | U |
| N-Nitroso-di-n-propylamine | µg | ND | U | ND | U |
| N-Nitrosodiphenylamine | µg | ND | U | ND | U |
| Pentachlorophenol | µg | ND | U | ND | U |
| Phenanthrene | µg | ND | U | ND | U |
| Phenol | µg | ND | U | ND | U |
| Pyrene | µg | ND | U | ND | U |
| **Total** | µg | **95.33** | | **300.19** | |

**Notes:**
µg - Microgram
NC - Not calculated
ND - Non-detect

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

# Table 3.17
## SBPA and Off-Site ISVE System Results
## for Method TO-13 (SVOCs) - November 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 11/2/2006 | | | |
|---|---|---|---|---|---|
| Compounds | Units | SBPA ISVE | | Off-Site ISVE | |
| 1,2,4-Trichlorobenzene | µg | 11 | | 4.4 | |
| 1,2-Dichlorobenzene | µg | 24 | | 77 | |
| 1,3-Dichlorobenzene | µg | 2.7 | | 2.7 | |
| 1,4-Dichlorobenzene | µg | 5.7 | | 10 | |
| 2,4,5-Trichlorophenol | µg | ND | U | ND | U |
| 2,4,6-Trichlorophenol | µg | ND | U | ND | U |
| 2,4-Dichlorophenol | µg | ND | U | ND | U |
| 2,4-Dimethylphenol | µg | ND | U | ND | U |
| 2,4-Dinitrophenol | µg | ND | U | ND | U |
| 2,4-Dinitrotoluene | µg | ND | U | ND | U |
| 2,6-Dinitrotoluene | µg | ND | U | ND | U |
| 2-Chloronaphthalene | µg | ND | U | ND | U |
| 2-Chlorophenol | µg | ND | U | ND | U |
| 2-Methylnaphthalene | µg | 9.1 | | 20 | |
| 2-Methylphenol (o-Cresol) | µg | ND | U | ND | U |
| 2-Nitroaniline | µg | ND | U | ND | U |
| 2-Nitrophenol | µg | ND | U | ND | U |
| 3,3'-Dichlorobenzidine | µg | ND | U | ND | U |
| 3-Nitroaniline | µg | ND | U | ND | U |
| 4,6-Dinitro-2-methylphenol | µg | ND | U | ND | U |
| 4-Bromophenyl-phenyl Ether | µg | ND | U | ND | U |
| 4-Chloro-3-methylphenol | µg | ND | U | ND | U |
| 4-Chloroaniline | µg | ND | U | ND | U |
| 4-Chlorophenyl-phenyl Ether | µg | ND | U | ND | U |
| 4-Methylphenol/3-Methylphenol | µg | ND | U | ND | U |
| 4-Nitroaniline | µg | ND | U | ND | U |
| 4-Nitrophenol | µg | ND | U | ND | U |
| Acenaphthene | µg | ND | U | ND | U |
| Acenaphthylene | µg | ND | U | ND | U |
| Anthracene | µg | ND | U | ND | U |
| Benzo(a)anthracene | µg | ND | U | ND | U |
| Benzo(a)pyrene | µg | ND | U | ND | U |
| Benzo(b)fluoranthene | µg | ND | U | ND | U |
| Benzo(g,h,i)perylene | µg | ND | U | ND | U |
| Benzo(k)fluoranthene | µg | ND | U | ND | U |
| bis(2-Chloroethoxy) Methane | µg | ND | U | ND | U |
| bis(2-Chloroethyl) Ether | µg | 3.2 | | ND | U |
| bis(2-Ethylhexyl)phthalate | µg | 4.4 | J/J | 5.8 | |
| Butylbenzylphthalate | µg | ND | U | ND | U |
| Chrysene | µg | ND | U | ND | U |
| Dibenz(a,h)anthracene | µg | ND | U | ND | U |
| Dibenzofuran | µg | ND | U | ND | U |
| Diethylphthalate | µg | ND | U | ND | U |
| Dimethylphthalate | µg | ND | U | ND | U |
| di-n-Butylphthalate | µg | 1.4 | J/J | 2.9 | J/J |
| Di-n-Octylphthalate | µg | ND | U | ND | U |
| Fluoranthene | µg | ND | U | ND | U |
| Fluorene | µg | ND | U | ND | U |
| Hexachlorobenzene | µg | ND | U | ND | U |
| Hexachlorobutadiene | µg | 10 | | 6.4 | |
| Hexachlorocyclopentadiene | µg | ND | U | ND | U |
| Hexachloroethane | µg | ND | U | ND | U |
| Indeno(1,2,3-c,d)pyrene | µg | ND | U | ND | U |
| Isophorone | µg | 2.8 | | 41 | |

# Table 3.17
## SBPA and Off-Site ISVE System Results
## for Method TO-13 (SVOCs) - November 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 11/2/2006 | | | |
|---|---|---|---|---|---|
| **Compounds** | **Units** | **SBPA ISVE** | | **Off-Site ISVE** | |
| Naphthalene | µg | 17 | | 98 | |
| Nitrobenzene | µg | ND | U | ND | U |
| N-Nitroso-di-n-propylamine | µg | ND | U | ND | U |
| N-Nitrosodiphenylamine | µg | ND | U | ND | U |
| Pentachlorophenol | µg | ND | U | ND | U |
| Phenanthrene | µg | ND | U | ND | U |
| Phenol | µg | ND | U | ND | U |
| Pyrene | µg | ND | U | ND | U |
| **Total** | µg | **91.30** | | **268.20** | |

**Notes:**
µg - Microgram
NC - Not calculated
ND - Non-detect

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

# Table 3.18
## SBPA and Off-Site ISVE System Results
## for Method TO-13 (SVOCs) - December 2006
## American Chemical Service
## Griffith, Indiana

| | | Sampled 12/11/06 | | | |
|---|---|---|---|---|---|
| Compounds | Units | SBPA ISVE | | Off-Site ISVE | |
| 1,2,4-Trichlorobenzene | µg | 19 | U | 3.6 | U |
| 1,2-Dichlorobenzene | µg | 28 | U | 65 | U |
| 1,3-Dichlorobenzene | µg | 3.4 | U | 2.5 | U |
| 1,4-Dichlorobenzene | µg | 6.9 | U | 7.9 | U |
| 2,4,5-Trichlorophenol | µg | ND | U | ND | U |
| 2,4,6-Trichlorophenol | µg | ND | U | ND | U |
| 2,4-Dichlorophenol | µg | ND | U | ND | U |
| 2,4-Dimethylphenol | µg | ND | U | ND | U |
| 2,4-Dinitrophenol | µg | ND | U | ND | U |
| 2,4-Dinitrotoluene | µg | ND | U | ND | U |
| 2,6-Dinitrotoluene | µg | ND | U | ND | U |
| 2-Chloronaphthalene | µg | ND | U | ND | U |
| 2-Chlorophenol | µg | ND | U | ND | U |
| 2-Methylnaphthalene | µg | 16 | U | 16 | U |
| 2-Methylphenol (o-Cresol) | µg | ND | U | ND | U |
| 2-Nitroaniline | µg | ND | U | ND | U |
| 2-Nitrophenol | µg | ND | U | ND | U |
| 3,3'-Dichlorobenzidine | µg | ND | U | ND | U |
| 3-Nitroaniline | µg | ND | U | ND | U |
| 4,6-Dinitro-2-methylphenol | µg | ND | U | ND | U |
| 4-Bromophenyl-phenyl Ether | µg | ND | U | ND | U |
| 4-Chloro-3-methylphenol | µg | ND | U | ND | U |
| 4-Chloroaniline | µg | ND | U | ND | U |
| 4-Chlorophenyl-phenyl Ether | µg | ND | U | ND | U |
| 4-Methylphenol/3-Methylphenol | µg | ND | U | 3.3 | J/J |
| 4-Nitroaniline | µg | ND | U | ND | U |
| 4-Nitrophenol | µg | ND | U | ND | U |
| Acenaphthene | µg | ND | U | ND | U |
| Acenaphthylene | µg | ND | U | ND | U |
| Anthracene | µg | ND | U | ND | U |
| Benzo(a)anthracene | µg | ND | U | ND | U |
| Benzo(a)pyrene | µg | ND | U | ND | U |
| Benzo(b)fluoranthene | µg | ND | U | ND | U |
| Benzo(g,h,i)perylene | µg | ND | U | ND | U |
| Benzo(k)fluoranthene | µg | ND | U | ND | U |
| bis(2-Chloroethoxy) Methane | µg | ND | U | ND | U |
| bis(2-Chloroethyl) Ether | µg | 3.2 | U | 6.2 | U |
| bis(2-Ethylhexyl)phthalate | µg | 1.8 | J/J | 3.5 | J/J |
| Butylbenzylphthalate | µg | ND | U | ND | U |
| Chrysene | µg | ND | U | ND | U |
| Dibenz(a,h)anthracene | µg | ND | U | ND | U |
| Dibenzofuran | µg | ND | U | ND | U |
| Diethylphthalate | µg | ND | U | ND | U |
| Dimethylphthalate | µg | ND | U | ND | U |
| di-n-Butylphthalate | µg | ND | U | ND | U |
| Di-n-Octylphthalate | µg | ND | U | ND | U |
| Fluoranthene | µg | ND | U | ND | U |
| Fluorene | µg | ND | U | ND | U |
| Hexachlorobenzene | µg | ND | U | ND | U |
| Hexachlorobutadiene | µg | 13 | U | 4.8 | U |
| Hexachlorocyclopentadiene | µg | ND | U | ND | U |
| Hexachloroethane | µg | ND | U | ND | U |
| Indeno(1,2,3-c,d)pyrene | µg | ND | U | ND | U |
| Isophorone | µg | 3 | U | 42 | U |

# Table 3.18
## SBPA and Off-Site ISVE System Results
## for Method TO-13 (SVOCs) - December 2006
## American Chemical Service
## Griffith, Indiana

| Compounds | Units | Sampled 12/11/06 | | | |
|---|---|---|---|---|---|
| | | SBPA ISVE | | Off-Site ISVE | |
| Naphthalene | µg | 26 | U | 76 | U |
| Nitrobenzene | µg | ND | U | ND | U |
| N-Nitroso-di-n-propylamine | µg | ND | U | ND | U |
| N-Nitrosodiphenylamine | µg | ND | U | ND | U |
| Pentachlorophenol | µg | ND | U | ND | U |
| Phenanthrene | µg | ND | U | ND | U |
| Phenol | µg | ND | U | 5.2 | U |
| Pyrene | µg | ND | U | ND | U |
| **Total** | µg | **120.30** | | **236.00** | |

**Notes:**
µg - Microgram
NC - Not calculated
ND - Non-detect

**Qualifiers:**
J - Result is estimated
U - below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

# Table 3.19
## Off-Site In-Situ Vapor Extraction (ISVE) System Well Monitoring Data
## Fourth Quarter 2006
## American Chemical Service NPL Site
## Griffith, Indiana

| Well ID | Date | Flow (cfm) | Vac (" $H_2O$) | VOCs (ppm) | Comments |
|---|---|---|---|---|---|
| SVE-01 | 10/19/2006 | Water | 84.0 | 181 | |
| | 11/29/2006 | Water | 78.0 | 105 | |
| | 12/21/2006 | Water | 88.5 | 92 | |
| SVE-02 | 10/19/2006 | 12 | 84.0 | 129 | |
| | 11/29/2006 | 14 | 79.5 | 47 | |
| | 12/21/2006 | 9 | 89.5 | 82 | |
| SVE-03 | 10/19/2006 | Water | 84.5 | 112 | |
| | 11/29/2006 | Water | 79.0 | 51 | |
| | 12/21/2006 | 119 | 88.5 | 74 | |
| SVE-04 | 10/19/2006 | 8 | 84.0 | 143 | |
| | 11/29/2006 | 12 | 79.0 | 55 | |
| | 12/21/2006 | 11 | 90.0 | 75 | |
| SVE-05 | 10/19/2006 | 14 | 84.0 | 159 | |
| | 11/29/2006 | 13 | 78.5 | 67 | |
| | 12/21/2006 | 11 | 89.5 | 77 | |
| SVE-06 | 10/19/2006 | Water | 84.0 | 104 | |
| | 11/29/2006 | Water | 79.0 | 59 | |
| | 12/21/2006 | Water | 89.0 | 93 | |
| SVE-07 | 10/19/2006 | Water | 83.5 | 119 | |
| | 11/29/2006 | Water | 78.0 | 52 | |
| | 12/21/2006 | Water | 85.5 | Water | |
| SVE-08 | 10/19/2006 | Water | 83.5 | Water | |
| | 11/29/2006 | Water | 73.5 | 23 | |
| | 12/21/2006 | 4 | 9.0 | 52 | |
| SVE-09 | 10/19/2006 | 160 | 83.5 | 81 | |
| | 11/29/2006 | 197 | 77.5 | 18 | |
| | 12/21/2006 | Water | 79.0 | 53 | |
| SVE-10 | 10/19/2006 | 91 | 83.5 | 188 | |
| | 11/29/2006 | Water | 78.0 | 30 | |
| | 12/21/2006 | 130 | 82.5 | 93 | |
| SVE-11 | 10/19/2006 | Water | 70.0 | 105 | |
| | 11/29/2006 | Water | 63.5 | 28 | |
| | 12/21/2006 | Water | 81.5 | 63 | |
| SVE-12 | 10/19/2006 | 15 | 84.0 | 130 | |
| | 11/29/2006 | Water | 78.5 | 43 | |
| | 12/21/2006 | Water | 89.5 | 71 | |
| SVE-13 | 10/19/2006 | 12 | 82.5 | 503 | |
| | 11/29/2006 | 13 | 77.0 | 636 | |
| | 12/21/2006 | 7 | 87.5 | 209 | |
| SVE-14 | 10/19/2006 | Water | 83.5 | Water | |
| | 11/29/2006 | Water | 77.5 | 1344 | |
| | 12/21/2006 | 7 | 89.0 | 3090 | |
| SVE-15 | 10/19/2006 | 260 | 83.5 | 728 | |
| | 11/29/2006 | Water | 56.0 | 372 | Vacuum fluctuated between 51-61 |
| | 12/21/2006 | Water | 88.0 | 407 | |

**Table 3.19**
**Off-Site In-Situ Vapor Extraction (ISVE) System Well Monitoring Data**
**Fourth Quarter 2006**
**American Chemical Service NPL Site**
**Griffith, Indiana**

| Well ID | Date | Flow (cfm) | Vac (" $H_2O$) | VOCs (ppm) | Comments |
|---|---|---|---|---|---|
| SVE-16 | 10/19/2006 | Water | 83.0 | 1705 | |
| | 11/29/2006 | 8 | 45.5 | 1021 | |
| | 12/21/2006 | Water | 87.5 | 1386 | |
| SVE-17 | 10/19/2006 | 15 | 83.5 | 199 | |
| | 11/29/2006 | Water | 78.5 | 97 | |
| | 12/21/2006 | 10 | 89.0 | 143 | |
| SVE-18 | 10/19/2006 | 9 | 83.5 | 624 | |
| | 11/29/2006 | 18 | 77.5 | 105 | |
| | 12/21/2006 | 5 | 87.5 | 1713 | |
| SVE-19 | 10/19/2006 | Water | 83.5 | 106 | |
| | 11/29/2006 | Water | 79.0 | 76 | |
| | 12/21/2006 | Water | 88.0 | 115 | |
| SVE-20 | 10/19/2006 | Water | 83.5 | 95 | |
| | 11/29/2006 | Water | 77.0 | 64 | |
| | 12/21/2006 | Water | 87.5 | 115 | |
| SVE-21 | 10/19/2006 | 115 | 83.5 | 141 | |
| | 11/29/2006 | 36 | 63.0 | 83 | Vacuum fluctuated between 58-68 |
| | 12/21/2006 | 30 | 82.5 | 179 | |
| SVE-22 | 10/19/2006 | 20 | 76.5 | 4448 | |
| | 11/29/2006 | 30 | 68.0 | 1190 | |
| | 12/21/2006 | Water | 87.5 | 1377 | |
| SVE-23 | 10/19/2006 | Water | 79.0 | 1671 | |
| | 11/29/2006 | Water | 69.5 | 1256 | |
| | 12/21/2006 | Water | 88.0 | 1482 | |
| SVE-24 | 10/19/2006 | Water | 72.0 | 1506 | |
| | 11/29/2006 | 160 | 61.0 | 1056 | |
| | 12/21/2006 | 178 | 87.5 | 1454 | |
| SVE-25 | 10/19/2006 | 150 | 76.5 | 1271 | |
| | 11/29/2006 | Water | 68.0 | 728 | |
| | 12/21/2006 | Water | 86.5 | 697 | |
| SVE-26 | 10/19/2006 | 37 | 83.5 | 366 | |
| | 11/29/2006 | Water | 78.0 | 153 | |
| | 12/21/2006 | Water | 87.5 | 288 | |
| SVE-27 | 10/19/2006 | 10 | 52.5 | 276 | |
| | 11/29/2006 | 9 | 43.0 | 102 | |
| | 12/21/2006 | 3 | 50.0 | 154 | |
| SVE-28 | 10/19/2006 | 20 | 83.5 | 349 | |
| | 11/29/2006 | 19 | 77.5 | 299 | |
| | 12/21/2006 | 4 | 87.5 | 135 | |
| SVE-29 | 10/19/2006 | 45 | 83.5 | 552 | |
| | 11/29/2006 | Water | 78.0 | 315 | |
| | 12/21/2006 | Water | 87.5 | Water | |
| SVE-30 | 10/19/2006 | 12 | 83.5 | 2303 | |
| | 11/29/2006 | 10 | 78.0 | 1348 | |
| | 12/21/2006 | 4 | 88.0 | 1448 | |

## Table 3.19
## Off-Site In-Situ Vapor Extraction (ISVE) System Well Monitoring Data
## Fourth Quarter 2006
## American Chemical Service NPL Site
## Griffith, Indiana

| Well ID | Date | Flow (cfm) | Vac (" $H_2O$) | VOCs (ppm) | Comments |
|---|---|---|---|---|---|
| SVE-31 | 10/19/2006 | 13 | 82.5 | 980 | |
| | 11/29/2006 | 17 | 78.0 | 37 | |
| | 12/21/2006 | 7 | 87.5 | 23 | |
| SVE-32 | 10/19/2006 | Water | 81.0 | Water | |
| | 11/29/2006 | 12 | 28.0 | 255 | |
| | 12/21/2006 | 15 | 42.5 | 21 | |
| SVE-33 | 10/19/2006 | 16 | 83.5 | 155 | |
| | 11/29/2006 | 13 | 79.0 | 459 | |
| | 12/21/2006 | 7 | 87.5 | 44 | |
| SVE-34 | 10/19/2006 | 78 | 83.5 | 852 | |
| | 11/29/2006 | Water | 78.5 | 463 | |
| | 12/21/2006 | 100 | 87.0 | 418 | |
| SVE-35 | 10/19/2006 | 18 | 83.0 | 86 | |
| | 11/29/2006 | 15 | 77.5 | 51 | |
| | 12/21/2006 | 6 | 87.5 | 41 | |
| SVE-36 | 10/19/2006 | 9 | 82.5 | 368 | |
| | 11/29/2006 | 13 | 77.0 | 2338 | |
| | 12/21/2006 | 8 | 87.5 | 100 | |
| SVE-37 | 10/19/2006 | Water | 82.0 | 117 | |
| | 11/29/2006 | Water | 75.0 | 60 | |
| | 12/21/2006 | 7 | 87.0 | 25 | |
| SVE-38 | 10/19/2006 | Water | 83.0 | 1411 | |
| | 11/29/2006 | Water | 77.0 | 453 | |
| | 12/21/2006 | Water | 87.5 | 354 | |
| SVE-39 | 10/19/2006 | 15 | 83.0 | 102 | |
| | 11/29/2006 | 16 | 78.5 | 52 | |
| | 12/21/2006 | 5 | 87.0 | 33 | |
| SVE-40 | 10/19/2006 | Water | 56.5 | 1217 | |
| | 11/29/2006 | Water | 45.5 | 388 | |
| | 12/21/2006 | Water | 87.0 | 304 | |
| SVE-41 | 10/19/2006 | Water | 83.0 | 955 | |
| | 11/29/2006 | Water | 77.5 | 473 | |
| | 12/21/2006 | Water | 87.5 | 415 | |
| SVE-42 | 10/19/2006 | 10 | 82.5 | 675 | |
| | 11/29/2006 | 21 | 77.5 | 73 | |
| | 12/21/2006 | 11 | 86.5 | 123 | |

**Notes:**

"Water" - water present in vapor stream, preventing data collection

Beginning in March 2006, flow is measured using a VelociCalc 8384 flow meter.
Differential pressure is no longer measured.

Beginning in August 2006, vacuum pressures are measured with an Extech Manometer
Model 407910.

## Table 3.20
## Off-Site In-Situ Vapor Extraction (ISVE) System Header Monitoring Data - Fourth Quarter 2006
## American Chemical Service NPL Site
## Griffith, Indiana

| Date | KP1 Line Press (psia) | KP1 Flow (scfm) | KP1 Vac (" $H_2O$) | KP2 Line Press (psia) | KP2 Flow (scfm) | KP2 Vac (" $H_2O$) | OFCA1 Vac (" $H_2O$) | OFCA2 Vac (" $H_2O$) | OFCA3 Vac (" $H_2O$) | Dilution Flow (cfm) | Blower Inf Line Press (psia) | Blower Inf Flow (scfm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/19/2006 | 11.6 | 0 | 84 | 11.7 | 0 | 83.5 | 83.5 | 83 | 84 | 0 | 11.5 | 0 |
| 11/29/2006 | 11.8 | 349 | 79.5 | 11.8 | 0 | 79.5 | 79 | 78 | 79 | 0 | 11.7 | 694 |
| 12/21/2006 | 11.5 | 0 | 90 | 11.5 | 0 | 90 | 88.5 | 88.5 | 89.5 | 0 | 11.4 | 687 |

| Date | Blower Inf Vac (" H2O) | Blower Inf VOC (ppm) | Blower Inf Temp. (°F) | Blower Eff Line Press (psia) | Blower Eff Flow (scfm) | Blower Eff Press (" $H_2O$) | Blower Eff VOC (ppm) | Blower Eff Temp. (°F) | Filter Diff Press (" $H_2O$) | Ambient Temperature (°F) | Barometric Pressure ("Hg) | Humidity (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/19/2006 | 89 | 459 | 68 | 15.5 | 525 | 24.0 | - | 152 | 7.0 | 45 | 29.87 | 66% |
| 11/29/2006 | 83 | 61 | 66 | 15.7 | 647 | 28.5 | - | 150 | 7.0 | 60 | 29.91 | 88% |
| 12/21/2006 | 94 | 330 | 62 | 15.7 | 527 | -26.5 | - | 154 | 6.0 | 46 | 30.06 | 93% |

**Notes:**

"-" = data not collected
cfm = cubic feet per minute
" $H_2O$ = inches of water
ppm = parts per million
VOCs = volatile organic compounds
psia = pounds per square inch, atmosphere
" Hg = inches of mercury
°F = degrees Fahrenheit

**Table 3.21**
**SBPA In-Situ Vapor Extraction (ISVE) System Well Monitoring Data**
**Fourth Quarter 2006**
**American Chemical Service NPL Site**
**Griffith, Indiana**

| Well ID | Date | Flow (cfm) | Vac (" $H_2O$) | VOCs (ppm) | Comments |
|---|---|---|---|---|---|
| SVE-43 | 10/19/2006 | 22 | 81.0 | 28 | |
| | 11/29/2006 | 22 | 94.5 | 71 | |
| | 12/21/2006 | 0.1 | 1.0 | 44 | |
| SVE-44 | 10/19/2006 | 80 | 79.5 | 21 | |
| | 11/29/2006 | Water | 93.5 | 6 | |
| | 12/21/2006 | 45 | 18.5 | 78 | |
| SVE-45 | 10/19/2006 | 14 | 80.5 | 38 | |
| | 11/29/2006 | 32 | 94.0 | 127 | |
| | 12/21/2006 | 22 | 115.0 | 49 | |
| SVE-46 | 10/19/2006 | 60 | 81.0 | 64 | |
| | 11/29/2006 | 25 | 94.0 | 59 | |
| | 12/21/2006 | Water | 114.5 | 60 | |
| SVE-47 | 10/19/2006 | 34 | 81.0 | 642 | |
| | 11/29/2006 | 19 | 94.0 | 635 | |
| | 12/21/2006 | 23 | 114.0 | 194 | |
| SVE-48 | 10/19/2006 | Water | 79.5 | 650 | |
| | 11/29/2006 | Water | 93.0 | 523 | |
| | 12/21/2006 | Water | 87.5 | 142 | |
| SVE-49 | 10/19/2006 | 20 | 81.5 | 60 | |
| | 11/29/2006 | 28 | 94.5 | 183 | |
| | 12/21/2006 | 15 | - | - | Air injection well |
| SVE-50 | 10/19/2006 | 14 | - | - | Air injection well |
| | 11/29/2006 | 16 | - | - | Air injection well |
| | 12/21/2006 | Water | 115.0 | 104 | |
| SVE-51 | 10/19/2006 | Water | 79.5 | 81 | |
| | 11/29/2006 | 20 | 94.0 | 17 | |
| | 12/21/2006 | 33 | - | - | Air injection well |
| SVE-52 | 10/19/2006 | - | - | - | |
| | 11/29/2006 | - | - | - | |
| | 12/21/2006 | - | - | - | |
| SVE-53 | 10/19/2006 | - | - | - | |
| | 11/29/2006 | - | - | - | |
| | 12/21/2006 | - | - | - | |
| SVE-54 | 10/19/2006 | 15 | - | - | Air injection well |
| | 11/29/2006 | 17 | - | - | Air injection well |
| | 12/21/2006 | Water | 106.0 | 185 | |
| SVE-55 | 10/19/2006 | 17 | 81.5 | 427 | |
| | 11/29/2006 | 28 | 94.5 | 288 | |
| | 12/21/2006 | 46 | 115.5 | 227 | |
| SVE-56 | 10/19/2006 | 13 | 81.5 | 197 | |
| | 11/29/2006 | 25 | 95.5 | 99 | |
| | 12/21/2006 | 54 | 114.5 | 84 | |
| SVE-57 | 10/19/2006 | 30 | 70.0 | 232 | |
| | 11/29/2006 | 22 | 94.0 | 117 | |
| | 12/21/2006 | 23 | 111.5 | 74 | |
| SVE-58 | 10/19/2006 | 32 | 75.0 | 332 | |
| | 11/29/2006 | Water | 98.0 | 260 | |
| | 12/21/2006 | Water | 114.5 | 118 | |

**Table 3.21**
**SBPA In-Situ Vapor Extraction (ISVE) System Well Monitoring Data**
**Fourth Quarter 2006**
**American Chemical Service NPL Site**
**Griffith, Indiana**

| Well ID | Date | Flow (cfm) | Vac (" $H_2O$) | VOCs (ppm) | Comments |
|---|---|---|---|---|---|
| SVE-59 | 10/19/2006 | Water | 69.0 | 5 | |
| | 11/29/2006 | Water | 93.5 | 209 | |
| | 12/21/2006 | Water | 114.5 | 85 | |
| SVE-60 | 10/19/2006 | 13 | 83.5 | 234 | |
| | 11/29/2006 | 30 | 98.0 | 258 | |
| | 12/21/2006 | Water | 114.0 | 101 | |
| SVE-61 | 10/19/2006 | - | - | - | |
| | 11/29/2006 | - | - | - | |
| | 12/21/2006 | - | - | - | |
| SVE-62 | 10/19/2006 | - | - | - | |
| | 11/29/2006 | - | - | - | |
| | 12/21/2006 | - | - | - | |
| SVE-63 | 10/19/2006 | 12 | 81.0 | 686 | |
| | 11/29/2006 | Water | 95.0 | 310 | |
| | 12/21/2006 | 33 | 116.0 | 172 | |
| SVE-64 | 10/19/2006 | 18 | 80.0 | 1498 | |
| | 11/29/2006 | 26 | 95.0 | 651 | |
| | 12/21/2006 | 66 | 115.0 | 192 | |
| SVE-65 | 10/19/2006 | 18 | 79.0 | 2564 | |
| | 11/29/2006 | Water | 94.0 | 757 | |
| | 12/21/2006 | 22 | - | - | Air injection well |
| SVE-66 | 10/19/2006 | 24 | 79.5 | 228 | |
| | 11/29/2006 | 20 | 95.0 | 147 | |
| | 12/21/2006 | 30 | 114.0 | 73 | |
| SVE-67 | 10/19/2006 | 38 | 61.0 | Water | |
| | 11/29/2006 | 45 | 62.5 | 530 | |
| | 12/21/2006 | Water | 113.0 | 55 | |
| SVE-68 | 10/19/2006 | 25 | 80.5 | 227 | |
| | 11/29/2006 | Water | 95.5 | 147 | |
| | 12/21/2006 | Water | 76.0 | 45 | |
| SVE-69 | 10/19/2006 | Water | 55.0 | Water | |
| | 11/29/2006 | 21 | 29.0 | 17 | |
| | 12/21/2006 | 34 | 93.5 | 56 | |
| SVE-70 | 10/19/2006 | 84 | 84.0 | 49 | |
| | 11/29/2006 | NM | 98.0 | 25 | Blockage - could not measure flow |
| | 12/21/2006 | NM | 22.5 | 61 | Blockage - could not measure flow |
| SVE-71 | 10/19/2006 | 16 | 83.5 | 410 | |
| | 11/29/2006 | Water | 98.5 | 539 | |
| | 12/21/2006 | 46 | - | - | Air injection well |
| SVE-72 | 10/19/2006 | - | - | - | |
| | 11/29/2006 | - | - | - | |
| | 12/21/2006 | - | - | - | |
| SVE-73 | 10/19/2006 | 17 | - | - | Air injection well |
| | 11/29/2006 | 23 | - | - | Air injection well |
| | 12/21/2006 | 29 | 106.0 | 99 | |
| SVE-74 | 10/19/2006 | 15 | 83.5 | 2824 | |
| | 11/29/2006 | 41 | 98.0 | 1983 | |
| | 12/21/2006 | 55 | 121.5 | 144 | |

**Table 3.21**
**SBPA In-Situ Vapor Extraction (ISVE) System Well Monitoring Data**
**Fourth Quarter 2006**
**American Chemical Service NPL Site**
**Griffith, Indiana**

| Well ID | Date | Flow (cfm) | Vac (" $H_2O$) | VOCs (ppm) | Comments |
|---|---|---|---|---|---|
| SVE-75 | 10/19/2006 | Water | 82.5 | 159 | |
| | 11/29/2006 | Water | 95.0 | 104 | |
| | 12/21/2006 | Water | 95.0 | 54 | |
| SVE-76 | 10/19/2006 | 28 | 81.0 | 100 | |
| | 11/29/2006 | 33 | 95.0 | 60 | |
| | 12/21/2006 | 71 | 110.0 | 61 | |
| SVE-77 | 10/19/2006 | - | - | - | |
| | 11/29/2006 | - | - | - | |
| | 12/21/2006 | - | - | - | |
| SVE-78 | 10/19/2006 | - | - | - | |
| | 11/29/2006 | - | - | - | |
| | 12/21/2006 | - | - | - | |
| SVE-79 | 10/19/2006 | 19 | - | - | Air injection well |
| | 11/29/2006 | 27 | - | - | Air injection well |
| | 12/21/2006 | 130 | 119.0 | 85 | |
| SVE-80 | 10/19/2006 | 22 | 84.0 | 108 | |
| | 11/29/2006 | Water | 98.0 | 301 | |
| | 12/21/2006 | Water | 117.5 | 89 | |
| SVE-81 | 10/19/2006 | 29 | - | - | Air injection well |
| | 11/29/2006 | 28 | - | - | Air injection well |
| | 12/21/2006 | Water | 118.0 | 195 | |
| SVE-82 | 10/19/2006 | Water | 83.5 | 307 | |
| | 11/29/2006 | Water | 98.0 | 317 | |
| | 12/21/2006 | 24 | - | - | Air injection well |
| SVE-83 | 10/19/2006 | 14 | 85.0 | 1871 | |
| | 11/29/2006 | Water | 98.0 | 376 | |
| | 12/21/2006 | Water | 112.0 | 176 | |
| SVE-84 | 10/19/2006 | 10 | 84.0 | 157 | |
| | 11/29/2006 | Water | 98.5 | 720 | |
| | 12/21/2006 | - | - | - | |
| SVE-85 | 10/19/2006 | 13 | 84.0 | 1700 | |
| | 11/29/2006 | 25 | 98.0 | 2421 | |
| | 12/21/2006 | Water | 120.0 | 229 | |
| SVE-86 | 10/19/2006 | 14 | 84.0 | 531 | |
| | 11/29/2006 | 17 | 98.5 | 1246 | |
| | 12/21/2006 | 43 | 116.0 | 110 | |
| SVE-87 | 10/19/2006 | 13 | 59.0 | 791 | |
| | 11/29/2006 | - | - | - | |
| | 12/21/2006 | Water | 109.0 | 144 | |
| SVE-88 | 10/19/2006 | - | - | - | |
| | 11/29/2006 | - | - | - | |
| | 12/21/2006 | - | - | - | |

**Notes:**

"-" = data not collected

"Water" - water present in vapor stream, preventing data collection

NM = Not measured, reason given in comments column

Beginning in March 2006, flow is measured using a VelociCalc 8384 flow meter.
Differential pressure is no longer measured.

Beginning in August 2006, vacuum pressures are measured with an Extech Manometer
Model 407910.

## Table 3.22
## SBPA In-Situ Vapor Extraction (ISVE) System Header Monitoring Data - Fourth Quarter 2006
## American Chemical Service NPL Site
## Griffith, Indiana

| Date | Line Press (psia) | Flow (scfm) | Vac (" $H_2O$) | Line Press (psia) | Flow (scfm) | Vac (" $H_2O$) | Dilution Flow (cfm) | Blower Inf Line Press (psia) | Blower Inf Flow (scfm) | Blower Inf Vac (" H2O) | Blower Inf VOC (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/19/2006 | 11.6 | 1559 | 85 | 11.6 | 0 | 86 | 0 | 11.1 | 1522 | 100 | - |
| 11/29/2006 | 11.2 | 1326 | 97 | 11.2 | 0 | 98.5 | 0 | 11.1 | 1669 | 100 | 325 |
| 12/21/2006 | 10.6 | 0 | 116 | 10.5 | 1444 | 120.0 | 0 | 11.2 | 1678 | 100 | - |

| Date | Blower Inf Temp. (°F) | Blower Eff Line Press (psia) | Blower Eff Flow (scfm) | Blower Eff Press (" $H_2O$) | Blower Eff VOC (ppm) | Blower Eff Temp. (°F) | Filter Diff Press (" $H_2O$) | Ambient Temperature (°F) | Barometric Pressure ("Hg) | Humidity (%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/19/2006 | 59 | 14.8 | 892 | 4.0 | 345 | 147 | 11.0 | 43 | 29.93 | 70% |
| 11/29/2006 | 58 | 14.7 | 781 | 0.0 | 375 | 194 | 20.0 | 62 | 29.94 | 82% |
| 12/21/2006 | 58 | 14.8 | 936 | 0.0 | - | 182 | 20.0 | 43 | 30.18 | 87% |

**Notes:**

"-" = data not collected
cfm = cubic feet per minute
" $H_2O$ = inches of water
ppm = parts per million
VOCs = volatile organic compounds
psia = pounds per square inch, atmosphere
" Hg = inches of mercury
°F = degrees Fahrenheit

# Table 3.23
## Schedule of Product Removal Activities - Fourth Quarter 2006
## American Chemical Service
## Griffith, Indiana

| Date | Well | Amount of Product Removed |
|---|---|---|
| October 24, 2006 | SVE-53 | 10 gallons |
| October 30, 2006 | SVE-72 | 8 gallons |
| November 6, 2006 | SVE-53 | 10 gallons |
| November 14, 2006 | SVE-72 | 4 gallons |
| November 27, 2006 | SVE-53 | 6 gallons |

| | |
|---|---|
| **Total Product Removed** | **38 gallons** |

# Table 6.1
## Water Table Elevations Across the Barrier Wall and Near the PGCS - Fourth Quarter 2006
## American Chemical Service NPL Site
## Griffith, Indiana

**Upper Aquifer Wells**

| Well Designation | Reference Points | | | 12/22/2006 | | Notes | Difference Across Barrier Wall (if applicable)[1] |
|---|---|---|---|---|---|---|---|
| | East | North | TOIC | Level | Elevation | | |
| MW11 | 6377 | 7329 | 640.47 | 4.14 | 636.33 | | n/a |
| MW13 | 5050 | 7814 | 634.08 | 2.34 | 631.74 | | n/a |
| MW37 | 5395 | 7976 | 636.78 | 3.37 | 633.41 | | n/a |
| MW46 | 4526 | 7424 | 633.32 | 2.28 | 631.04 | Flooded | n/a |
| MW48 | 5669 | 7814 | 636.36 | 3.74 | 632.62 | | n/a |
| MW49 | 5551 | 7650 | 637.00 | 3.37 | 633.63 | | n/a |

**Staff Gauges & Piezometers**

| Well Designation | Reference Points | | | 12/22/2006 | | Notes | Difference Across Barrier Wall (if applicable)[1] |
|---|---|---|---|---|---|---|---|
| | East | North | TOSG | Level | Elevation | | |
| P23 | 4689 | 7018 | 636.18 | 4.45 | 631.73 | | n/a |
| P25 | 5131 | 7510 | 633.33 | 1.26 | 632.07 | | n/a |
| P26 | 4764 | 7309 | 634.23 | 3.08 | 631.15 | | n/a |
| P27 | 4904 | 7020 | 639.70 | 8.26 | 631.44 | | n/a |
| P28 | 5883 | 7486 | 644.53 | 9.55 | 634.98 | | n/a |
| P32 | 5746 | 7026 | 642.32 | 10.49 | 631.83 | | n/a |
| P40 | 5931 | 7241 | 638.77 | 3.08 | 635.69 | | n/a |
| P41 | 5663 | 7377 | 637.23 | 1.65 | 635.58 | | n/a |
| P49 | 5145 | 6949 | 638.98 | 9.52 | 629.46 | | n/a |
| SG13 | 4819 | 7209 | 631.53 | 5.38 | 630.91 | TOSG = 6.0' mark | n/a |

**PGCS Piezometer Sets**

| Well Designation | Reference Points | | | 12/22/2006 | | Notes | Difference Across Barrier Wall (if applicable)[1] |
|---|---|---|---|---|---|---|---|
| | East | North | TOC | Level | Elevation | | |
| P81 | 5577 | 7581 | 636.19 | 2.71 | 633.48 | | n/a |
| P82 | 5577 | 7572 | 635.77 | 2.56 | 633.21 | | n/a |
| P83 | 5577 | 7561.6 | 635.95 | 2.24 | 633.71 | | n/a |
| P84 | 5322 | 7603 | 634.35 | 2.05 | 632.30 | | n/a |
| P85 | 5326 | 7594 | 634.08 | 1.63 | 632.45 | | n/a |
| P86 | 5329 | 7585 | 634.41 | 1.82 | 632.59 | | n/a |
| P87 | 5121 | 7466 | 633.88 | 3.64 | 630.24 | | n/a |
| P88 | 5130 | 7460 | 633.90 | 2.01 | 631.89 | | n/a |
| P89 | 5137 | 7454 | 634.02 | 2.18 | 631.84 | | n/a |
| P90 | 4881 | 7152 | 634.45 | 3.13 | 631.32 | | n/a |
| P91 | 4889 | 7145 | 634.59 | 3.82 | 630.77 | | n/a |
| P92 | 4896 | 7138.1 | 633.87 | 2.96 | 630.91 | | n/a |

# Table 6.1
## Water Table Elevations Across the Barrier Wall and Near the PGCS - Fourth Quarter 2006
## American Chemical Service NPL Site
## Griffith, Indiana

**BWES Water Level and Piezometer Pairs**

| Well Designation | Reference Points | | | 12/22/2006 | | Notes | Difference Across Barrier Wall (if applicable)[1] |
|---|---|---|---|---|---|---|---|
| | East | North | TOC | Level | Elevation | | |
| P93R - Outside BW | TBD | TBD | 639.05 | 6.45 | 632.60 | Installed Nov. 2004 | -3.09 |
| P94R - Inside BW | TBD | TBD | 640.99 | 11.48 | 629.51 | Installed Nov. 2004 | |
| P95 - Outside BW | 5146 | 6532 | 638.58 | 4.04 | 634.54 | | -10.38 |
| P96 - Inside BW | 5156 | 6537 | 641.26 | 17.10 | 624.16 | | |
| P105 - Outside BW | 5885 | 6678 | 638.86 | 2.15 | 636.71 | | -7.30 |
| P106 - Inside BW | 5871 | 6685 | 638.10 | 8.69 | 629.41 | | |
| P107 - Outside BW | 5766 | 7339 | 637.42 | 2.23 | 635.19 | | -3.44 |
| P108 - Inside BW | 5757 | 7324 | 638.13 | 6.38 | 631.75 | | |
| P109 - Outside BW | 5740 | 6387 | 644.30 | 8.29 | 636.01 | | -9.60 |
| P110 - Inside BW | 5705 | 6382 | 647.68 | 21.27 | 626.41 | | |
| P111 - Outside BW | 5551 | 5950 | 650.03 | 14.81 | 635.22 | | -10.72 |
| P112 - Inside BW | 5525 | 5960 | 653.36 | 28.86 | 624.50 | | |
| P113 - Inside BW | 5309 | 5693 | 657.53 | 32.97 | 624.56 | | -9.99 |
| ORCPZ102 - Outside BW | 5331 | 5612 | 652.47 | 17.92 | 634.55 | | |
| P114 - Inside BW | 5035 | 5729 | 653.69 | 29.46 | 624.23 | | -10.59 |
| P115 - Outside BW | 4970 | 5708 | 652.50 | 17.68 | 634.82 | | |
| P116 - Inside BW | 5031 | 6087 | 646.26 | 21.94 | 624.32 | | -11.48 |
| P117 - Outside BW | 5014 | 6087 | 643.93 | 8.13 | 635.80 | | |
| P118 - Inside BW | 5402 | 6539 | 645.52 | 19.11 | 626.41 | | n/a |

**Notes:**

All depth measurements and elevations are in units of feet.

Elevation is in feet above mean sea level.

TOIC = top of inner casing

TOC = top of casing

TOSG = top of staff gauge

NM = could not measure (reason given under "Notes" column)

n/a = not applicable

1 A positive value indicates that the water level is higher inside the barrier wall. A negative value indicates that the water level is lower inside the barrier wall.

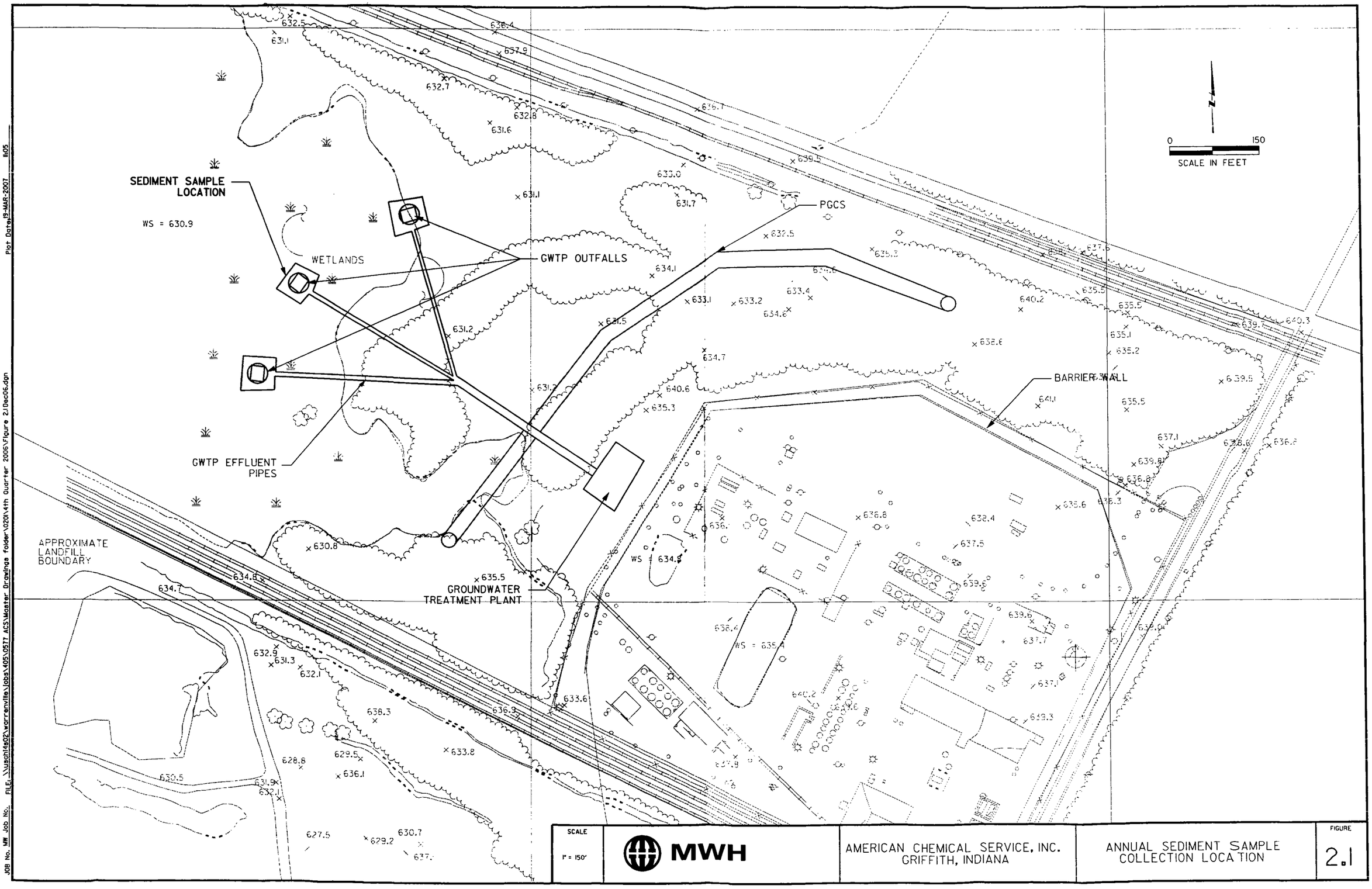
# Table 6.2
## Water Levels Inside Barrier Wall - Fourth Quarter 2006
## American Chemical Service NPL Site
## Griffith, Indiana

| Date | On-Site Area | | | | | |
|---|---|---|---|---|---|---|
| | Target Level | P-29 | P-31 | P-32 | P-36 | P-49 |
| 10/12/2006 | 629.0 | 630.4 | 630.9 | 629.7 | 624.9 | 627.7 |
| 10/27/2006 | 629.0 | 630.4 | 630.9 | 629.7 | 624.9 | 627.7 |
| 11/10/2006 | 629.0 | 630.4 | 630.9 | 629.7 | 624.9 | 627.7 |
| 11/22/2006 | 629.0 | 630.4 | 630.9 | 631.3 | 626.1 | 629.2 |
| 12/8/2006 | 629.0 | 630.4 | 630.9 | 631.8 | 624.9 | 629.2 |

| Date | Off-Site Area | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Target Level | P-96 | P-110 | P-112 | P-113 | P-114 | P-116 | P-118 | AS-7 | AS-8 | AS-9 |
| 10/12/2006 | 626.0 | 620.5 | 628.0 | 626.3 | 626.0 | 626.3 | 625.8 | 627.1 | NM | NM | NM |
| 10/19/2006 | 626.0 | NM | NM | NM | NM | NM | NM | NM | 627.99 | 621.90 | 632.42 |
| 10/27/2006 | 626.0 | 620.5 | 627.5 | 625.4 | 625.7 | 625.8 | 625.5 | 626.7 | NM | NM | NM |
| 11/10/2006 | 626.0 | 620.5 | 627.6 | 625.9 | 626.1 | 626.4 | 626.2 | 626.7 | NM | NM | NM |
| 11/14/2006 | 626.0 | NM | NM | NM | NM | NM | NM | NM | 628.47 | 628.16 | 627.92 |
| 11/22/2006 | 626.0 | 621.0 | 627.8 | 626.3 | 627.5 | 628.1 | 628.3 | 626.7 | NM | NM | NM |
| 12/8/2006 | 626.0 | 620.5 | 627.7 | 625.8 | 625.9 | 626.2 | 625.6 | 626.7 | NM | NM | NM |
| 12/21/2006 | 626.0 | NM | NM | NM | NM | NM | NM | NM | 630.14 | 626.96 | 627.06 |

**Notes:**
All water level elevations are in feet AMSL.

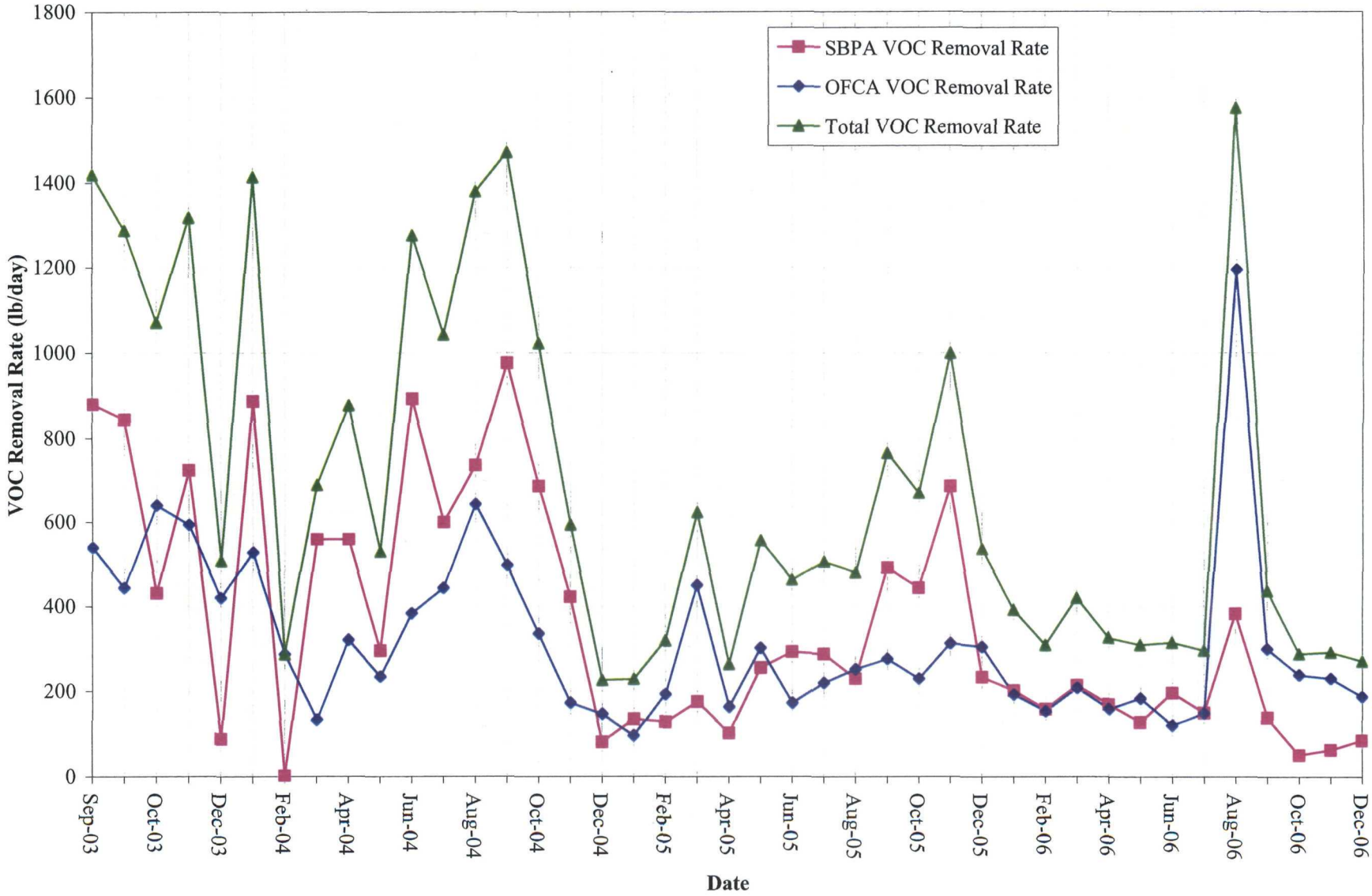
# FIGURES




| SCALE | | | | FIGURE |
|---|---|---|---|---|
| 1" = 150' | MWH | AMERICAN CHEMICAL SERVICE, INC.<br>GRIFFITH, INDIANA | ANNUAL SEDIMENT SAMPLE COLLECTION LOCATION | 2.1 |

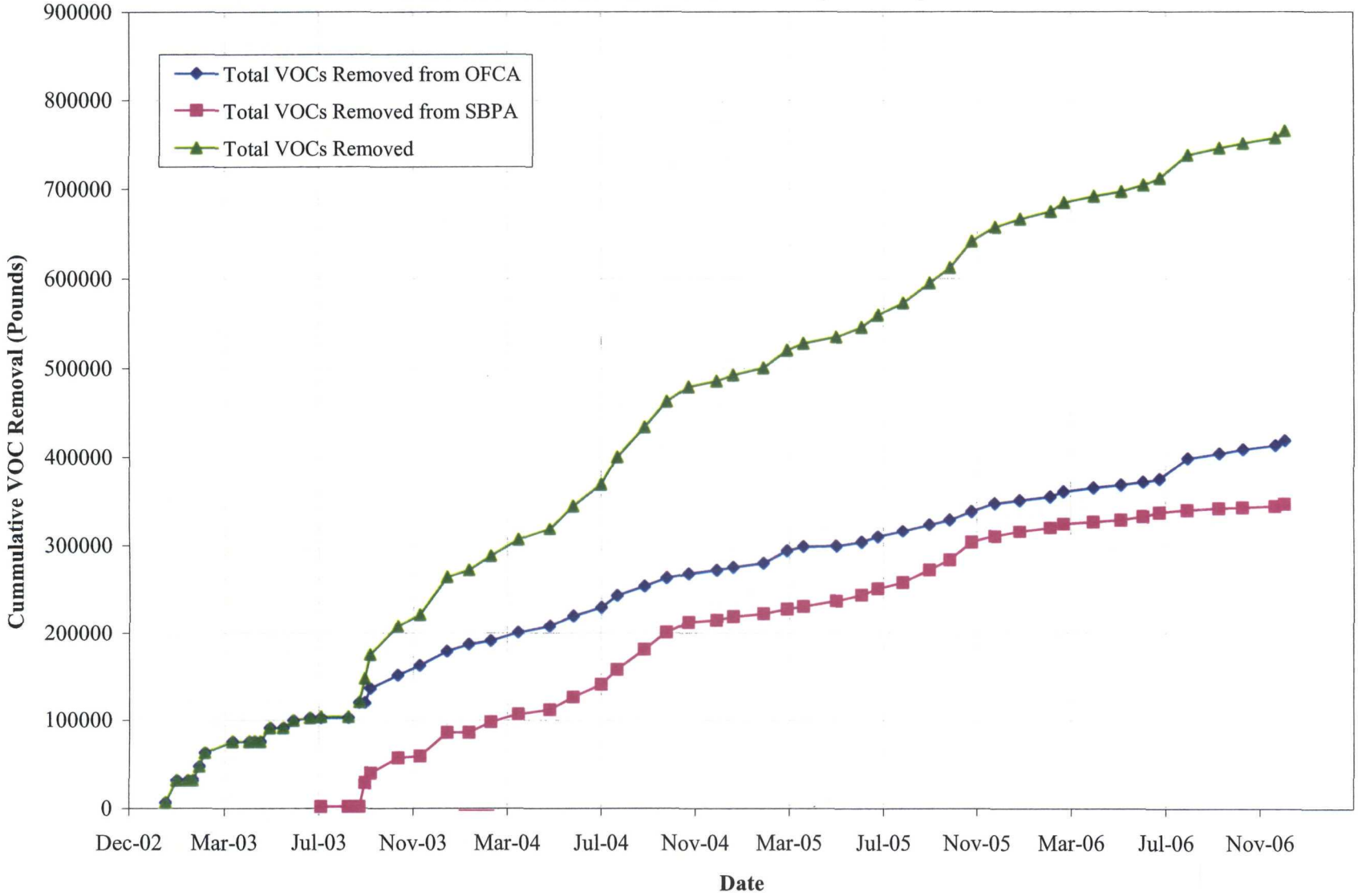
JOB No. MW Job No. FILE: \\uschi4s02\warrenville\Jobs\405\0577 ACS\Master Drawings folder\2006\4th Quarter 2006\Figure 2.1Dec06.dgn Plot Date: 13-MAR-2007 11:05

**Figure 3.1**
**VOC Removal Rate**
**American Chemical Services NPL Site, Griffith, IN**

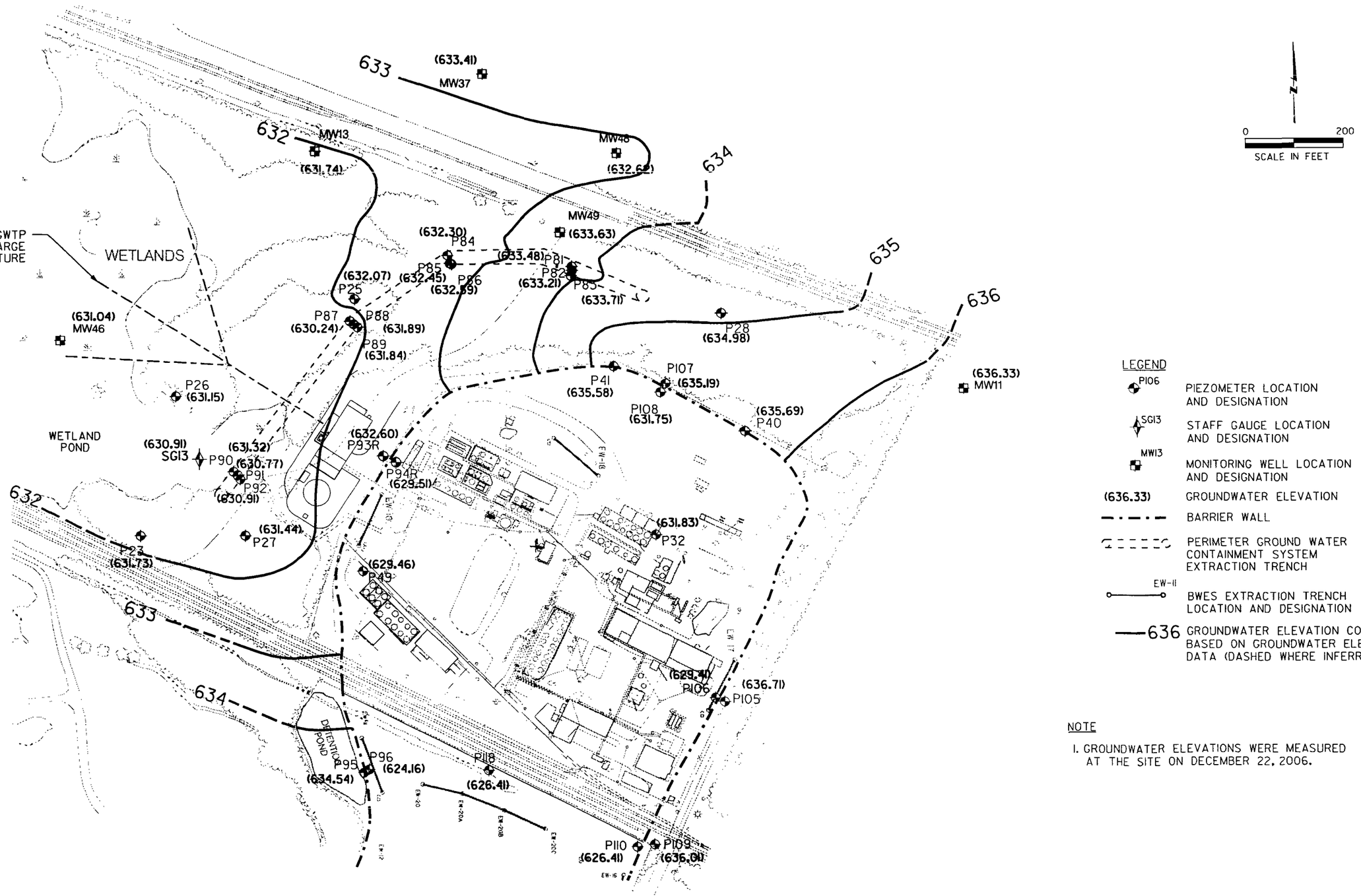



CDC/JEF/CAD
J:\jobs\405\0577 ACS\0201 Engr\05770201a040.xls\VOC Removal Rate

**Figure 3.2**
**Total VOCs Removed**
**American Chemical Services NPL Site, Griffith, IN**




CDC/JEF/CAD
J:\jobs\405\0577 ACS\0201 Engr\05770201a040.xls\Total VOCs Removed

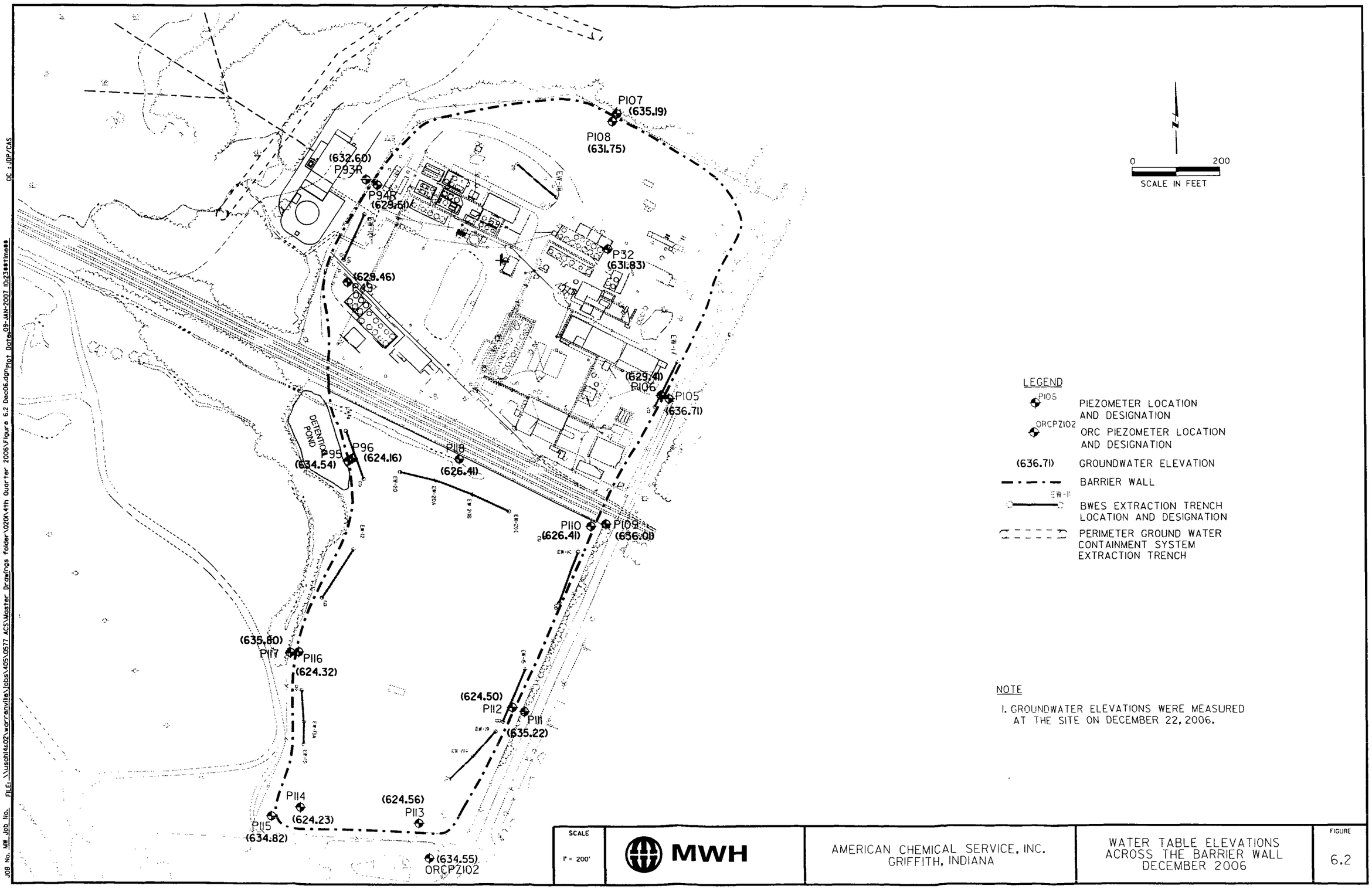



NOTE

1. GROUNDWATER ELEVATIONS WERE MEASURED AT THE SITE ON DECEMBER 22, 2006.

| SCALE | | | FIGURE |
|---|---|---|---|
| 1" = 200' | MWH | AMERICAN CHEMICAL SERVICE, INC.<br>GRIFFITH, INDIANA | WATER TABLE ELEVATIONS<br>NEAR THE PGCS<br>DECEMBER 2006 | 6.1 |

JOB No. MW Job No. FILE: \\uschi4s02\warrenville\jobs\405\0577 ACS\Master Drawings folder\2006\4th Quarter 2006\Figure 6.1Dec06.dgn Plot Date: 15-MAR-2007 11:22 OC : JDP/CAS

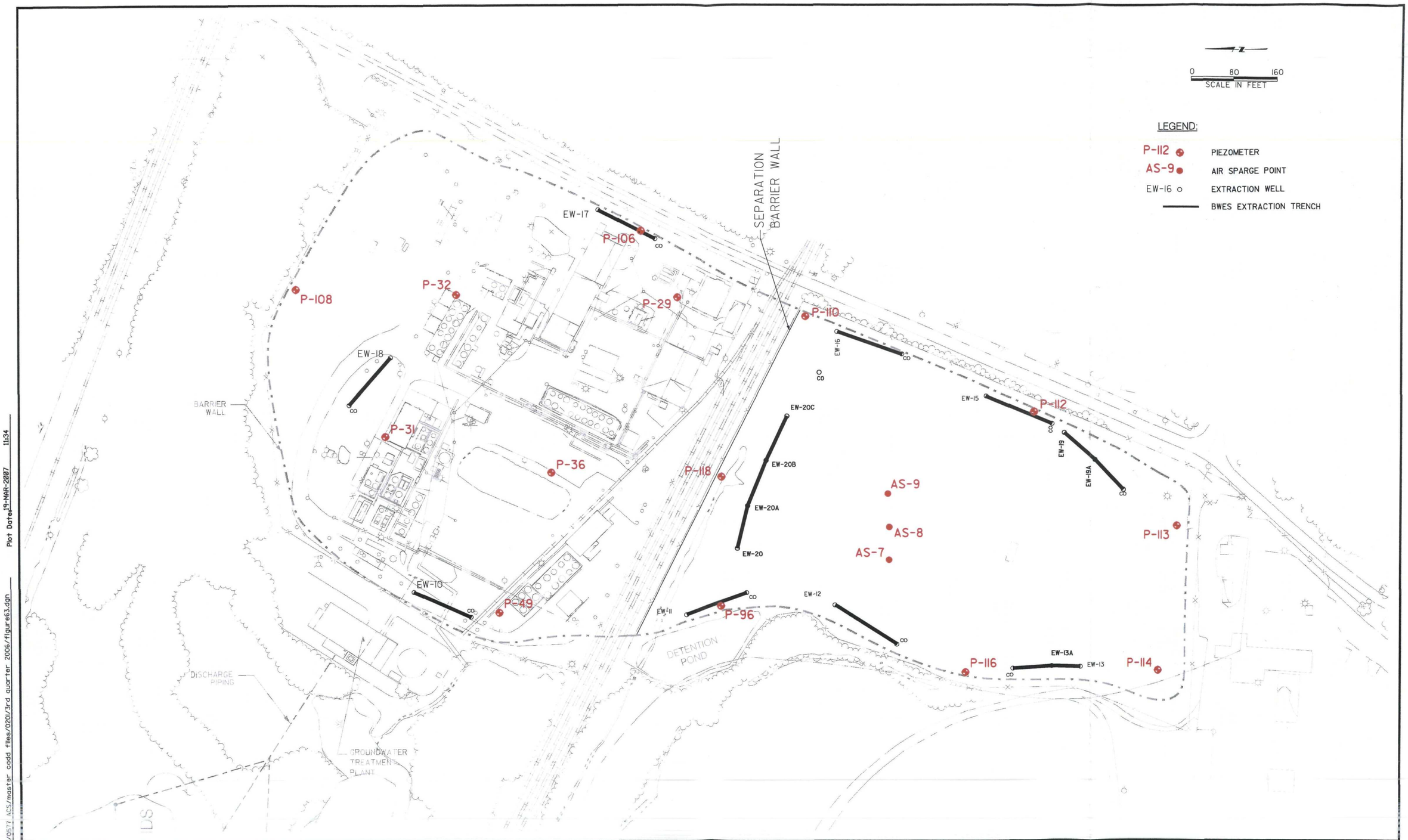



NOTE

1. GROUNDWATER ELEVATIONS WERE MEASURED AT THE SITE ON DECEMBER 22, 2006.

| SCALE | | | | FIGURE |
|---|---|---|---|---|
| 1" = 200' | MWH | AMERICAN CHEMICAL SERVICE, INC.<br>GRIFFITH, INDIANA | WATER TABLE ELEVATIONS ACROSS THE BARRIER WALL<br>DECEMBER 2006 | 6.2 |

JOB No. MW Job No. FILE: \\usch14s02\warrenville\jobs\405\0577 ACS\Master Drawings folder\020\4th Quarter 2006\Figure 6.2 Dec06.dgn Plot Date: 09-JAN-2007 10:23 $$time$$ QC : JDP/CAS




| REV | DATE | BY | DESCRIPTION |
|---|---|---|---|

SCALE: AS SHOWN

DESIGNED RAA
DRAWN CAD
CHECKED

SUBMITTED BY
ROBERT A. ADAMS (PROJECT MANAGER) LICENSE NO. DATE
(COMPANY OFFICER) LICENSE NO. DATE

MWH
MONTGOMERY WATSON HARZA

AMERICAN CHEMICAL SERVICE SUPERFUND SITE
GRIFFITH, INDIANA

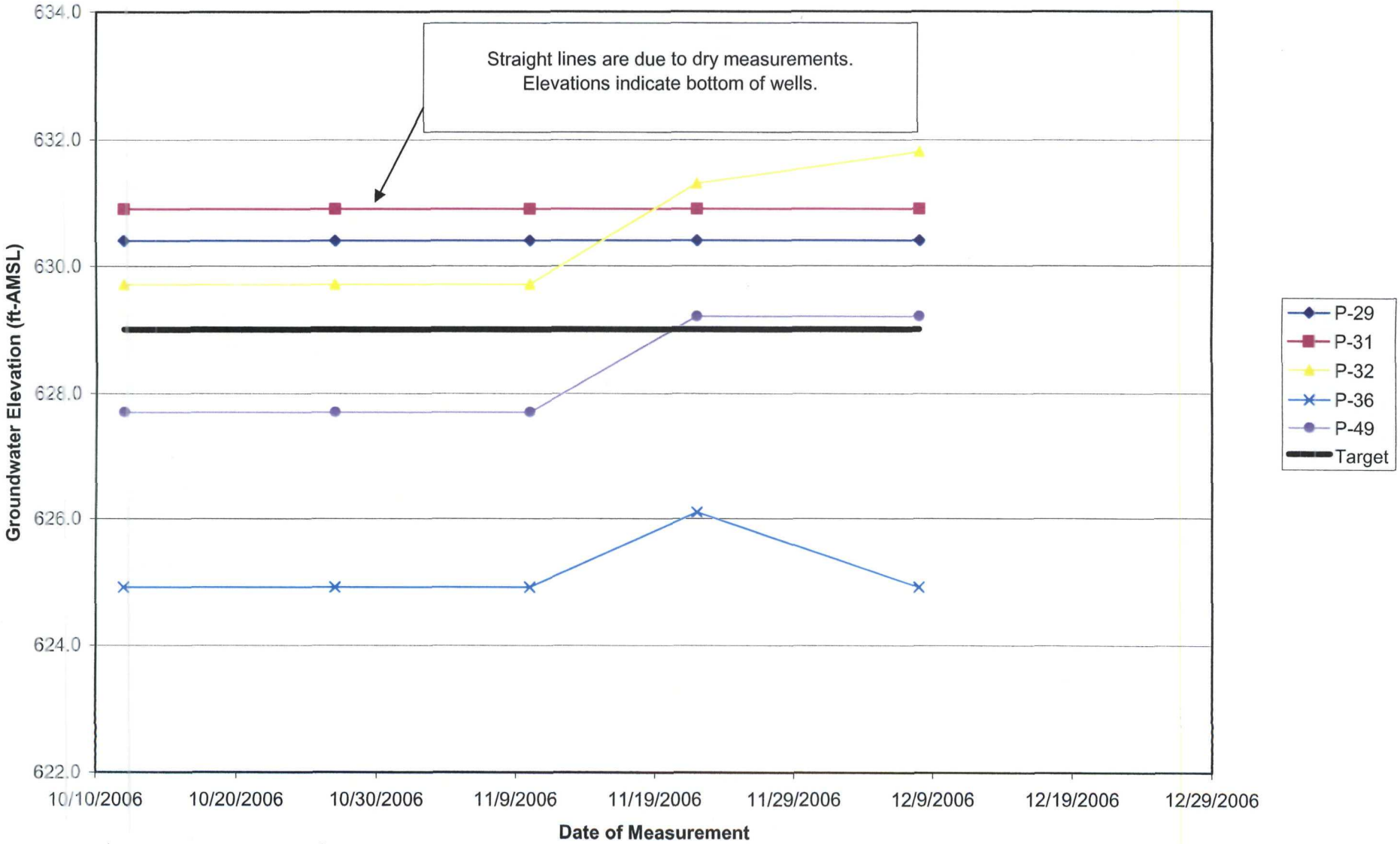
GROUNDWATER LEVEL MEASURING LOCATIONS

FIGURE 6.3

Plot Date: 19-MAR-2007 11:34

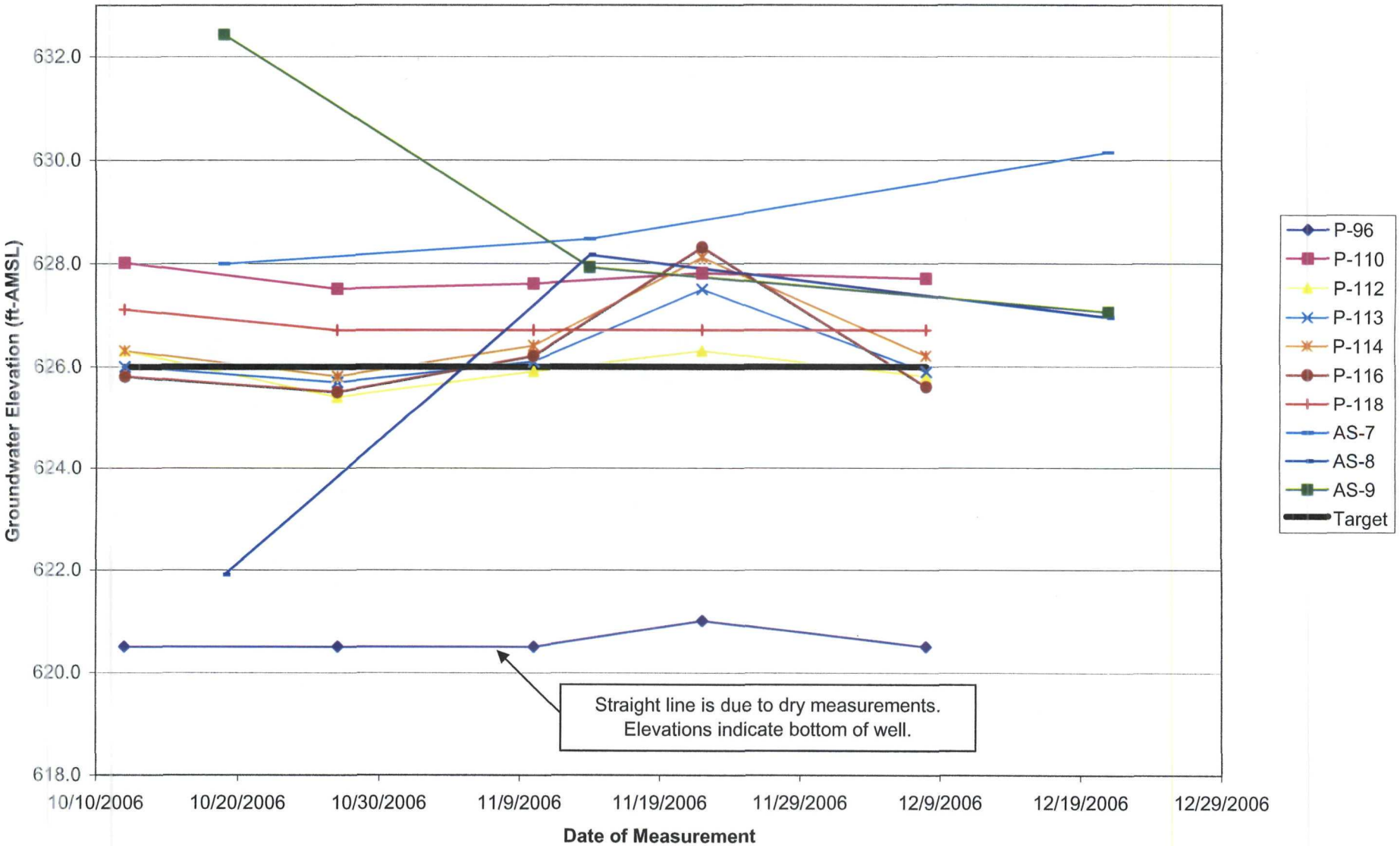
File: J:/405/0577 ACS/master cadd files/0201/3rd quarter 2006/figure63.dgn

**Figure 6.4**
**Water Level Trends Inside the Barrier Wall (Still Bottoms Pond Area)**
**ACS NPL Site**
**Griffith, Indiana**




JEF/CAD
J:\405\0577 ACS\0201 Engr\05770201a029.xls\SBPA GW Trends

**Figure 6.5**
**Water Level Trends Inside the Barrier Wall (Off-Site Area)**
**ACS NPL Site**
**Griffith, Indiana**




JEF/CAD
J:\405\0577 ACS\0201 Engr\05770201a029.xls\Off-Site GW Trends

# APPENDIX A

# EFFLUENT ANALYTICAL DATA

# October 11, 2006 Compliance Sample
# Laboratory Results

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 11222

Matrix: (soil/water) WATER Lab Sample ID: 1122201

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1122201RA61

Level: (low/med) LOW Date Received: 10/12/06

% Moisture: not dec. _____ Date Analyzed: 10/17/06

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 0.50 | U UJ |
| 75-01-4 | Vinyl Chloride | 0.50 | U ↓ |
| 74-83-9 | Bromomethane | 0.50 | U UJ |
| 75-00-3 | Chloroethane | 0.48 | J J |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U UJ |
| 75-15-0 | Carbon disulfide | 0.50 | U ↓ |
| 67-64-1 | Acetone | 2.5 | U UJ |
| 75-09-2 | Methylene Chloride | 0.45 | J J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U UJ |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U UJ |
| 156-59-2 | cis-1,2-Dichloroethene | 0.58 | J |
| 78-93-3 | 2-butanone | 2.5 | U UJ |
| 67-66-3 | Chloroform | 0.10 | J J |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U UJ |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U ↓ |
| 79-01-6 | Trichloroethene | 0.50 | U UJ |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U ↓ |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U UJ |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U ↓ |

FORM I VOA

11/14/06

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 11222

Matrix: (soil/water) WATER Lab Sample ID: 1122201

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1122201RA61

Level: (low/med) LOW Date Received: 10/12/06

% Moisture: not dec. _____ Date Analyzed: 10/17/06

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-25-2 | Bromoform | 0.50 | U UJ |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 0.63 | J |
| 1330-20-7 | Xylene (total) | 0.50 | U UJ |

FORM I VOA

11/14/06

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 11222

Matrix: (soil/water) WATER Lab Sample ID: 1122201

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1122201A66

Level: (Low/med) LOW Date Received: 10/12/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/17/06

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/19/06

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 111-44-4 | Bis(2-chloroethyl)ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 20 | U |
| 78-59-1 | Isophorone | 10 | U |
| 117-81-7 | bis(2-ethylhexyl)Phthalate | 10 | U |



11/14/06

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 11222

Matrix: (soil/water) WATER Lab Sample ID: 1122201

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1122201A60

Level: (low/med) LOW Date Received: 10/12/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/17/06

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/06

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q | |
|---|---|---|---|---|
| 87-86-5 | Pentachlorophenol | 0.28 | JB | 1.00U |

FORM I SV 8270C

11/14/06

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Contract: 8082

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 11222

Matrix: (soil/water) WATER Lab Sample ID: 1122201

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/12/06

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:10/13/06

Concentrated Extract Volume: 2500(uL) Date Analyzed: 10/15/06

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2------ | Aroclor-1016 | 0.47 | U |
| 11104-28-2------ | Aroclor-1221 | 0.63 | U |
| 11141-16-5------ | Aroclor-1232 | 0.47 | U |
| 53469-21-9------ | Aroclor-1242 | 0.31 | U |
| 12672-29-6------ | Aroclor-1248 | 0.31 | U |
| 11097-69-1------ | Aroclor-1254 | 0.31 | U |
| 11096-82-5------ | Aroclor-1260 | 0.47 | U |

FORM I PEST

11/14/06

# SW846 - METALS

-1-

## INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 11122

Matrix (soil/water): WATER Lab Sample ID: 1122201

Level (low/med): LOW Date Received: 10/12/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 9.5 | B | | P |
| 7440-41-7 | Beryllium | 0.45 | B | UB | P |
| 7440-43-9 | Cadmium | 0.20 | U | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7439-96-5 | Manganese | 0.10 | U | | P |
| 7782-49-2 | Selenium | 2.5 | U | | P |
| 7440-28-0 | Thallium | 3.2 | U | | P |
| 7440-66-6 | Zinc | 1.1 | B | UB | P |

11/14/06

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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a division of Liberty Analytical Corp.

CompuChem a Division of Liberty Analytical Corp.
Remit to: P.O Box 4603
Cary, NC 27519-4603
Phone: (919) 379-4100
Fax: (919) 379-4050

# ANALYTICAL RESULTS

Project: 11222
Project ID: ACS 7010311
*Solid results are reported on a dry weight basis.*

**Lab ID:** **1122201** Date Collected: 10/11/2006 02:00 Matrix: Water
**Sample ID:** EFFLUENT Date Received: 10/12/2006 11:52

| Parameters | Results | Units | Report Limit | DF | Prepared | By | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PH OF WATER 150.1 | | | Analytical Method: EPA 150.1 | | | | | | | | |
| PH-150.1 | 7.45 | PH UNITS | 0.00 | 1 | | | 10/19/2006 | 2477 | | J | |
| TTL SSPND SOLIDS (TSS) 160.2 W | | | Analytical Method: EPA 160.2 | | | | | | | | |
| TSS | 0.800B | mg/L | 1.00 | 1 | | | 10/17/2006 | 2477 | | | |

Date: 10/26/2006

11/14/06



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# November 1, 2006 Compliance Sample
# Laboratory Results

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 11406

Matrix: (soil/water) WATER Lab Sample ID: 1140601

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1140601B62

Level: (low/med) LOW Date Received: 11/02/06

% Moisture: not dec. _____ Date Analyzed: 11/02/06

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.30 | J |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.5 | U UJ |
| 75-09-2 | Methylene Chloride | 0.84 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.15 | J |
| 156-59-2 | cis-1,2-Dichloroethene | 0.42 | J |
| 78-93-3 | 2-butanone | 2.5 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U UJ |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U UJ |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 79-01-6 | Trichloroethene | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |

FORM I VOA

12/1/06

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 11406

Matrix: (soil/water) WATER Lab Sample ID: 1140601

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1140601B62

Level: (low/med) LOW Date Received: 11/02/06

% Moisture: not dec. _____ Date Analyzed: 11/02/06

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 75-25-2 | Bromoform | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 0.43 | J |
| 1330-20-7 | Xylene (total) | 0.50 | U |

FORM I VOA

12/11/06

CompuChem
a division of Liberty Analytical Corp.

CompuChem a Division of Liberty Analytical Corp.
Remit to: P.O. Box 4603
Cary, NC 27519-4603
Phone: (919) 379-4100
Fax: (919) 379-4050

# ANALYTICAL RESULTS

Project: 11406
Project ID: ACS 7010311
Solid results are reported on a dry weight basis.

Lab ID: 1140601 Date Collected: 11/1/2006 00:00 Matrix: Water
Sample ID: EFFLUENT Date Received: 11/2/2006 09:33

| Parameters | Results | Units | Report Limit | DF | Prepared | By | Analyzed | By | CAS No. | Qual | RegLmt |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PH OF WATER 150.1 | | Analytical Method: EPA 150.1 | | | | | | | | | |
| PH-150.1 | 7.05 | PH UNITS | 0.00 | 1 | | | 11/3/2006 | 2477 | | | |

Date: 11/08/2006

8/12/1100



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# December 21, 2006 Compliance Sample
# Laboratory Results

# APPENDIX B

# THERMAL OXIDIZER OFF-GAS ANALYTICAL DATA

# October 19, 2006 Off-Gas Sample Laboratory Results

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE**

**Lab ID#: 0610414A-01A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 5110812 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 741 | Date of Analysis: | 11/8/06 05:47 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 370 | 330 J | 950 | 840 J |
| Bromomethane | 370 | Not Detected | 1400 | Not Detected |
| Chloroethane | 370 | Not Detected | 980 | Not Detected |
| 1,1-Dichloroethene | 370 | 350 J | 1500 | 1400 J |
| Methylene Chloride | 370 | 44000 | 1300 | 150000 |
| 1,1-Dichloroethane | 370 | 4600 | 1500 | 19000 |
| cis-1,2-Dichloroethene | 370 | 1400 | 1500 | 5600 |
| Chloroform | 370 | 2500 | 1800 | 12000 |
| 1,1,1-Trichloroethane | 370 | 36000 | 2000 | 190000 |
| Carbon Tetrachloride | 370 | Not Detected | 2300 | Not Detected |
| Benzene | 370 | 18000 | 1200 | 57000 |
| 1,2-Dichloroethane | 370 | 900 | 1500 | 3600 |
| Trichloroethene | 370 | 16000 | 2000 | 86000 |
| 1,2-Dichloropropane | 370 | 320 J | 1700 | 1500 J |
| cis-1,3-Dichloropropene | 370 | Not Detected | 1700 | Not Detected |
| Toluene | 370 | 120000 | 1400 | 440000 |
| trans-1,3-Dichloropropene | 370 | Not Detected | 1700 | Not Detected |
| 1,1,2-Trichloroethane | 370 | Not Detected | 2000 | Not Detected |
| Tetrachloroethene | 370 | 26000 | 2500 | 180000 |
| Chlorobenzene | 370 | Not Detected | 1700 | Not Detected |
| Ethyl Benzene | 370 | 13000 | 1600 | 56000 |
| m,p-Xylene | 370 | 50000 | 1600 | 220000 |
| o-Xylene | 370 | 18000 | 1600 | 80000 |
| Styrene | 370 | Not Detected | 1600 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 370 | Not Detected | 2500 | Not Detected |
| Bromodichloromethane | 370 | Not Detected | 2500 | Not Detected |
| Dibromochloromethane | 370 | Not Detected | 3200 | Not Detected |
| Chloromethane | 1500 | Not Detected | 3100 | Not Detected |
| Acetone | 1500 | 24000 | 3500 | 57000 |
| Carbon Disulfide | 1500 | 180 J | 4600 | 550 J |
| trans-1,2-Dichloroethene | 1500 | Not Detected | 5900 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1500 | 16000 | 4400 | 47000 |
| 4-Methyl-2-pentanone | 1500 | 9500 | 6100 | 39000 |
| 2-Hexanone | 1500 | 280 J | 6100 | 1200 J |
| Bromoform | 1500 | Not Detected | 15000 | Not Detected |

J - Estimated value.

Container Type: 6 Liter Summa Canister

11/17/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE**

**Lab ID#: 0610414A-01A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 51108122 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 741 | Date of Analysis: | 11/8/06 05:47 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |



ers
11/17/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 2 SBPA ISVE**

**Lab ID#: 0610414A-02A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | 5110309 | Date of Collection: | 10/19/06 |
|---|---|---|---|
| Dil. Factor: | 278 | Date of Analysis: | 11/3/06 06:00 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 140 | 1400 | 360 | 3700 |
| Bromomethane | 140 | Not Detected | 540 | Not Detected |
| Chloroethane | 140 | 160 | 370 | 420 |
| 1,1-Dichloroethene | 140 | 230 | 550 | 910 |
| Methylene Chloride | 140 | 4800 | 480 | 16000 |
| 1,1-Dichloroethane | 140 | 1400 | 560 | 5500 |
| cis-1,2-Dichloroethene | 140 | 8700 | 550 | 35000 |
| Chloroform | 140 | 3600 | 680 | 17000 |
| 1,1,1-Trichloroethane | 140 | 9700 | 760 | 53000 |
| Carbon Tetrachloride | 140 | Not Detected | 870 | Not Detected |
| Benzene | 140 | 4700 | 440 | 15000 |
| 1,2-Dichloroethane | 140 | 240 | 560 | 960 |
| Trichloroethene | 140 | 9300 | 750 | 50000 |
| 1,2-Dichloropropane | 140 | 210 | 640 | 970 |
| cis-1,3-Dichloropropene | 140 | Not Detected | 630 | Not Detected |
| Toluene | 140 | 35000 | 520 | 130000 |
| trans-1,3-Dichloropropene | 140 | Not Detected | 630 | Not Detected |
| 1,1,2-Trichloroethane | 140 | Not Detected | 760 | Not Detected |
| Tetrachloroethene | 140 | 24000 | 940 | 160000 |
| Chlorobenzene | 140 | 59 J | 640 | 270 J |
| Ethyl Benzene | 140 | 8100 | 600 | 35000 |
| m,p-Xylene | 140 | 33000 | 600 | 140000 |
| o-Xylene | 140 | 12000 | 600 | 55000 |
| Styrene | 140 | Not Detected | 590 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 140 | Not Detected | 950 | Not Detected |
| Bromodichloromethane | 140 | Not Detected | 930 | Not Detected |
| Dibromochloromethane | 140 | Not Detected | 1200 | Not Detected |
| Chloroform | 560 | Not Detected | 1100 | Not Detected |
| Acetone | 560 | 750 | 1300 | 1800 |
| Carbon Disulfide | 560 | Not Detected | 1700 | Not Detected |
| trans-1,2-Dichloroethene | 560 | Not Detected | 2200 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 560 | 420 J | 1600 | 1200 J |
| 4-Methyl-2-pentanone | 560 | 1700 | 2300 | 6900 |
| 2-Hexanone | 560 | Not Detected | 2300 | Not Detected |
| Bromoform | 560 | Not Detected | 5700 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**



11/17/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 2 SBPA ISVE**

**Lab ID#: 0610414A-02A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

File Name: 5110309 Date of Collection: 10/19/06
Dil. Factor: 278 Date of Analysis: 11/3/06 06:00 PM

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 105 | 70-130 |
| 4-Bromofluorobenzene | 116 | 70-130 |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 3 TOX 1 INF**

**Lab ID#: 0610414A-03A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

File Name: 5110310 Date of Collection: 10/19/06
Dil. Factor: 292 Date of Analysis: 11/3/06 06:28 PM

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 150 | 1500 | 370 | 3900 |
| Bromomethane | 150 | Not Detected | 570 | Not Detected |
| Chloroethane | 150 | 170 | 380 | 450 |
| 1,1-Dichloroethene | 150 | 240 | 580 | 950 |
| Methylene Chloride | 150 | 4700 | 510 | 16000 |
| 1,1-Dichloroethane | 150 | 1400 | 590 | 5800 |
| cis-1,2-Dichloroethene | 150 | 9000 | 580 | 36000 |
| Chloroform | 150 | 3500 | 710 | 17000 |
| 1,1,1-Trichloroethane | 150 | 10000 | 800 | 56000 |
| Carbon Tetrachloride | 150 | Not Detected | 920 | Not Detected |
| Benzene | 150 | 4300 | 470 | 14000 |
| 1,2-Dichloroethane | 150 | 210 | 590 | 870 |
| Trichloroethene | 150 | 9100 | 780 | 49000 |
| 1,2-Dichloropropane | 150 | 230 | 670 | 1000 |
| cis-1,3-Dichloropropene | 150 | Not Detected | 660 | Not Detected |
| Toluene | 150 | 34000 | 550 | 130000 |
| trans-1,3-Dichloropropene | 150 | Not Detected | 660 | Not Detected |
| 1,1,2-Trichloroethane | 150 | Not Detected | 800 | Not Detected |
| Tetrachloroethene | 150 | 26000 | 990 | 170000 |
| Chlorobenzene | 150 | Not Detected | 670 | Not Detected |
| Ethyl Benzene | 150 | 8300 | 630 | 36000 |
| m,p-Xylene | 150 | 33000 | 630 | 140000 |
| o-Xylene | 150 | 13000 | 630 | 56000 |
| Styrene | 150 | Not Detected | 620 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 150 | 94 J | 1000 | 650 J |
| Bromodichloromethane | 150 | Not Detected | 980 | Not Detected |
| Dibromochloromethane | 150 | Not Detected | 1200 | Not Detected |
| Chloromethane | 580 | Not Detected | 1200 | Not Detected |
| Acetone | 580 | 800 | 1400 | 1900 |
| Carbon Disulfide | 580 | Not Detected | 1800 | Not Detected |
| trans-1,2-Dichloroethene | 580 | 170 J | 2300 | 670 J |
| 2-Butanone (Methyl Ethyl Ketone) | 580 | 410 J | 1700 | 1200 J |
| 4-Methyl-2-pentanone | 580 | 1400 | 2400 | 5800 |
| 2-Hexanone | 580 | Not Detected | 2400 | Not Detected |
| Bromoform | 580 | Not Detected | 6000 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 3 TOX 1 INF**

**Lab ID#: 0610414A-03A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 5110310 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 292 | Date of Analysis: | 11/3/06 06:28 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 116 | 70-130 |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 4 TOX 1 INF DUP**

**Lab ID#: 0610414A-04A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

File Name: 5110311 | Date of Collection: 10/19/06
Dil. Factor: 272 | Date of Analysis: 11/3/06 06:55 PM

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 140 | 1800 | 350 | 4500 |
| Bromomethane | 140 | Not Detected | 530 | Not Detected |
| Chloroethane | 140 | 220 | 360 | 570 |
| 1,1-Dichloroethene | 140 | 220 | 540 | 880 |
| Methylene Chloride | 140 | 5000 | 470 | 17000 |
| 1,1-Dichloroethane | 140 | 1400 | 550 | 5700 |
| cis-1,2-Dichloroethene | 140 | 9700 | 540 | 38000 |
| Chloroform | 140 | 3400 | 660 | 17000 |
| 1,1,1-Trichloroethane | 140 | 10000 | 740 | 58000 |
| Carbon Tetrachloride | 140 | Not Detected | 860 | Not Detected |
| Benzene | 140 | 4000 | 430 | 13000 |
| 1,2-Dichloroethane | 140 | 220 | 550 | 880 |
| Trichloroethene | 140 | 9300 | 730 | 50000 |
| 1,2-Dichloropropane | 140 | 190 | 630 | 880 |
| cis-1,3-Dichloropropene | 140 | Not Detected | 620 | Not Detected |
| Toluene | 140 | 34000 | 510 | 130000 |
| trans-1,3-Dichloropropene | 140 | Not Detected | 620 | Not Detected |
| 1,1,2-Trichloroethane | 140 | Not Detected | 740 | Not Detected |
| Tetrachloroethene | 140 | 26000 | 920 | 180000 |
| Chlorobenzene | 140 | 58 J | 630 | 260 J |
| Ethyl Benzene | 140 | 8000 | 590 | 35000 |
| m,p-Xylene | 140 | 32000 | 590 | 140000 |
| o-Xylene | 140 | 13000 | 590 | 55000 |
| Styrene | 140 | Not Detected | 580 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 140 | Not Detected | 930 | Not Detected |
| Bromodichloromethane | 140 | Not Detected | 910 | Not Detected |
| Dibromochloromethane | 140 | Not Detected | 1200 | Not Detected |
| Chloromethane | 540 | Not Detected | 1100 | Not Detected |
| Acetone | 540 | 620 | 1300 | 1500 |
| Carbon Disulfide | 540 | Not Detected | 1700 | Not Detected |
| trans-1,2-Dichloroethene | 540 | 110 J | 2200 | 430 J |
| 2-Butanone (Methyl Ethyl Ketone) | 540 | 390 J | 1600 | 1100 J |
| 4-Methyl-2-pentanone | 540 | 1600 | 2200 | 6500 |
| 2-Hexanone | 540 | Not Detected | 2200 | Not Detected |
| Bromoform | 540 | Not Detected | 5600 | Not Detected |

J = Estimated value.

Container Type: 6 Liter Summa Canister

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 4 TOX 1 INF DUP**

**Lab ID#: 0610414A-04A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 511031 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 272 | Date of Analysis: | 11/3/06 06:55 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 5 TOX 1 EFF**

**Lab ID#: 0610414A-05A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 5110312 | Date of Collection: | 10/11/06 |
| Dil. Factor: | 1.39 | Date of Analysis: | 11/3/06 07:27 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.70 | 30 | 1.8 | 76 |
| Bromomethane | 0.70 | Not Detected | 2.7 | Not Detected |
| Chloroethane | 0.70 | 1.9 | 1.8 | 5.0 |
| 1,1-Dichloroethene | 0.70 | 57 | 2.8 | 220 |
| Methylene Chloride | 0.70 | 170 | 2.4 | 600 |
| 1,1-Dichloroethane | 0.70 | 5.3 | 2.8 | 22 |
| cis-1,2-Dichloroethene | 0.70 | 58 | 2.8 | 230 |
| Chloroform | 0.70 | 16 | 3.4 | 80 |
| 1,1,1-Trichloroethane | 0.70 | 35 | 3.8 | 190 |
| Carbon Tetrachloride | 0.70 | 0.55 J | 4.4 | 3.4 J |
| Benzene | 0.70 | 72 | 2.2 | 230 |
| 1,2-Dichloroethane | 0.70 | 1.1 | 2.8 | 4.5 |
| Trichloroethene | 0.70 | 72 | 3.7 | 380 |
| 1,2-Dichloropropane | 0.70 | 0.76 | 3.2 | 3.5 |
| cis-1,3-Dichloropropene | 0.70 | 0.21 J | 3.2 | 0.96 J |
| Toluene | 0.70 | 130 | 2.6 | 490 |
| trans-1,3-Dichloropropene | 0.70 | Not Detected | 3.2 | Not Detected |
| 1,1,2-Trichloroethane | 0.70 | Not Detected | 3.8 | Not Detected |
| Tetrachloroethene | 0.70 | 220 | 4.7 | 1400 |
| Chlorobenzene | 0.70 | 1.9 | 3.2 | 8.8 |
| Ethyl Benzene | 0.70 | 32 | 3.0 | 140 |
| m,p-Xylene | 0.70 | 130 | 3.0 | 560 |
| o-Xylene | 0.70 | 54 | 3.0 | 230 |
| Styrene | 0.70 | 17 | 3.0 | 72 |
| 1,1,2,2-Tetrachloroethane | 0.70 | 0.76 | 4.8 | 5.2 |
| Bromodichloromethane | 0.70 | Not Detected | 4.6 | Not Detected |
| Dibromochloromethane | 0.70 | Not Detected | 5.9 | Not Detected |
| Chloromethane | 2.8 | 9.0 | 5.7 | 18 |
| Acetone | 2.8 | 85 | 6.6 | 200 |
| Carbon Disulfide | 2.8 | 1.2 J | 8.6 | 3.7 J |
| trans-1,2-Dichloroethene | 2.8 | 14 | 11 | 55 |
| 2-Butanone (Methyl Ethyl Ketone) | 2.8 | 14 | 8.2 | 42 |
| 4-Methyl-2-pentanone | 2.8 | 17 | 11 | 70 |
| 2-Hexanone | 2.8 | 0.69 J | 11 | 2.8 J |
| Bromoform | 2.8 | Not Detected | 29 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 5 TOX 1 EFF**

**Lab ID#: 0610414A-05A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 5110312 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 1.39 | Date of Analysis: | 11/3/06 07:27 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 6 TOX 2 INF**

**Lab ID#: 0610414A-06A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 5110813 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 74 | Date of Analysis: | 11/8/06 06:15 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 370 | 1500 | 950 | 3800 |
| Bromomethane | 370 | Not Detected | 1400 | Not Detected |
| Chloroethane | 370 | 570 | 980 | 1500 |
| 1,1-Dichloroethene | 370 | 300 J | 1500 | 1200 J |
| Methylene Chloride | 370 | 30000 | 1300 | 110000 |
| 1,1-Dichloroethane | 370 | 3800 | 1500 | 15000 |
| cis-1,2-Dichloroethene | 370 | 6000 | 1500 | 24000 |
| Chloroform | 370 | 1800 | 1800 | 8900 |
| 1,1,1-Trichloroethane | 370 | 29000 | 2000 | 160000 |
| Carbon Tetrachloride | 370 | Not Detected | 2300 | Not Detected |
| Benzene | 370 | 15000 | 1200 | 48000 |
| 1,2-Dichloroethane | 370 | 820 | 1500 | 3300 |
| Trichloroethene | 370 | 13000 | 2000 | 70000 |
| 1,2-Dichloropropane | 370 | 290 J | 1700 | 1300 J |
| cis-1,3-Dichloropropene | 370 | Not Detected | 1700 | Not Detected |
| Toluene | 370 | 89000 | 1400 | 340000 |
| trans-1,3-Dichloropropene | 370 | Not Detected | 1700 | Not Detected |
| 1,1,2-Trichloroethane | 370 | Not Detected | 2000 | Not Detected |
| Tetrachloroethene | 370 | 23000 | 2500 | 160000 |
| Chlorobenzene | 370 | Not Detected | 1700 | Not Detected |
| Ethyl Benzene | 370 | 9800 | 1600 | 42000 |
| m,p-Xylene | 370 | 37000 | 1600 | 160000 |
| o-Xylene | 370 | 13000 | 1600 | 56000 |
| Styrene | 370 | Not Detected | 1600 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 370 | Not Detected | 2500 | Not Detected |
| Bromodichloromethane | 370 | Not Detected | 2500 | Not Detected |
| Dibromochloromethane | 370 | Not Detected | 3200 | Not Detected |
| Chloromethane | 1500 | 230 J | 3100 | 480 J |
| Acetone | 1500 | 16000 | 3500 | 37000 |
| Carbon Disulfide | 1500 | 210 J | 4600 | 650 J |
| trans-1,2-Dichloroethene | 1500 | Not Detected | 5900 | Not Detected |
| 2 Butanone (Methyl Ethyl Ketone) | 1500 | 12000 | 4400 | 35000 |
| 4 Methyl-2-pentanone | 1500 | 6600 | 6100 | 27000 |
| 2 Hexanone | 1500 | Not Detected | 6100 | Not Detected |
| Bromoform | 1500 | Not Detected | 15000 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 6 TOX 2 INF**

**Lab ID#: 0610414A-06A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 5110813 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 741 | Date of Analysis: | 11/8/06 06:15 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP**

**Lab ID#: 0610414A-07A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 5110314 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 644 | Date of Analysis: | 11/3/06 08:23 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 320 | 1400 | 820 | 3500 |
| Bromomethane | 320 | Not Detected | 1200 | Not Detected |
| Chloroethane | 320 | 540 | 850 | 1400 |
| 1,1-Dichloroethene | 320 | 350 | 1300 | 1400 |
| Methylene Chloride | 320 | 30000 | 1100 | 100000 |
| 1,1-Dichloroethane | 320 | 3600 | 1300 | 14000 |
| cis-1,2-Dichloroethene | 320 | 6800 | 1300 | 27000 |
| Chloroform | 320 | 1900 | 1600 | 9100 |
| 1,1,1-Trichloroethane | 320 | 26000 | 1800 | 140000 |
| Carbon Tetrachloride | 320 | Not Detected | 2000 | Not Detected |
| Benzene | 320 | 15000 | 1000 | 48000 |
| 1,2-Dichloroethane | 320 | 780 | 1300 | 3200 |
| Trichloroethene | 320 | 14000 | 1700 | 78000 |
| 1,2-Dichloropropane | 320 | 240 J | 1500 | 1100 J |
| cis-1,3-Dichloropropene | 320 | Not Detected | 1500 | Not Detected |
| Toluene | 320 | 100000 | 1200 | 380000 |
| trans-1,3-Dichloropropene | 320 | Not Detected | 1500 | Not Detected |
| 1,1,2-Trichloroethane | 320 | Not Detected | 1800 | Not Detected |
| Tetrachloroethene | 320 | 24000 | 2200 | 160000 |
| Chlorobenzene | 320 | Not Detected | 1500 | Not Detected |
| Ethyl Benzene | 320 | 12000 | 1400 | 53000 |
| m,p-Xylene | 320 | 51000 | 1400 | 220000 |
| o-Xylene | 320 | 18000 | 1400 | 76000 |
| Styrene | 320 | Not Detected | 1400 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 320 | Not Detected | 2200 | Not Detected |
| Bromodichloromethane | 320 | Not Detected | 2200 | Not Detected |
| Dibromochloromethane | 320 | Not Detected | 2700 | Not Detected |
| Chloromethane | 1300 | Not Detected | 2600 | Not Detected |
| Acetone | 1300 | 19000 | 3000 | 44000 |
| Carbon Disulfide | 1300 | Not Detected | 4000 | Not Detected |
| trans-1,2-Dichloroethene | 1300 | Not Detected | 5100 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1300 | 12000 | 3800 | 36000 |
| 4-Methyl-2-pentanone | 1300 | 6100 | 5300 | 25000 |
| 2-Hexanone | 1300 | Not Detected | 5300 | Not Detected |
| Bromoform | 1300 | Not Detected | 13000 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP**

**Lab ID#: 0610414A-07A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 5110314 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 644 | Date of Analysis: | 11/3/06 08:23 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 113 | 70-130 |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 8 TOX 2 EFF**

**Lab ID#: 0610414A-08A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

File Name: 5110315 Date of Collection: 10/19/06
Dil. Factor: 11.1 Date of Analysis: 11/3/06 08:50 PM

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 5.6 | 57 | 14 | 150 |
| Bromomethane | 5.6 | Not Detected | 22 | Not Detected |
| Chloroethane | 5.6 | 10 | 15 | 27 |
| 1,1-Dichloroethene | 5.6 | 160 | 22 | 620 |
| Methylene Chloride | 5.6 | 580 | 19 | 2000 |
| 1,1-Dichloroethane | 5.6 | 60 | 22 | 240 |
| cis-1,2-Dichloroethene | 5.6 | 120 | 22 | 480 |
| Chloroform | 5.6 | 36 | 27 | 180 |
| 1,1,1-Trichloroethane | 5.6 | 430 | 30 | 2300 |
| Carbon Tetrachloride | 5.6 | 3.8 J | 35 | 24 J |
| Benzene | 5.6 | 480 | 18 | 1500 |
| 1,2-Dichloroethane | 5.6 | 13 | 22 | 52 |
| Trichloroethene | 5.6 | 290 | 30 | 1600 |
| 1,2-Dichloropropane | 5.6 | 3.8 J | 26 | 18 J |
| cis-1,3-Dichloropropene | 5.6 | Not Detected | 25 | Not Detected |
| Toluene | 5.6 | 1400 | 21 | 5400 |
| trans-1,3-Dichloropropene | 5.6 | Not Detected | 25 | Not Detected |
| 1,1,2-Trichloroethane | 5.6 | Not Detected | 30 | Not Detected |
| Tetrachloroethene | 5.6 | 570 | 38 | 3900 |
| Chlorobenzene | 5.6 | 4.0 J | 26 | 18 J |
| Ethyl Benzene | 5.6 | 120 | 24 | 540 |
| m,p-Xylene | 5.6 | 430 | 24 | 1900 |
| o-Xylene | 5.6 | 150 | 24 | 670 |
| Styrene | 5.6 | 95 | 24 | 410 |
| 1,1,2,2-Tetrachloroethane | 5.6 | Not Detected | 38 | Not Detected |
| Bromodichloromethane | 5.6 | Not Detected | 37 | Not Detected |
| Dibromochloromethane | 5.6 | Not Detected | 47 | Not Detected |
| Chloromethane | 22 | Not Detected | 46 | Not Detected |
| Acetone | 22 | 470 | 53 | 1100 |
| Carbon Disulfide | 22 | 9.2 J | 69 | 29 J |
| trans-1,2-Dichloroethene | 22 | 22 | 88 | 88 |
| 2-Butanone (Methyl Ethyl Ketone) | 22 | 200 | 65 | 590 |
| 4-Methyl-2-pentanone | 22 | 61 | 91 | 250 |
| 2-Hexanone | 22 | 2.6 J | 91 | 10 J |
| Bromoform | 22 | Not Detected | 230 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 8 TOX 2 EFF**

**Lab ID#: 0610414A-08A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | |
|---|---|
| File Name: 5110315 | Date of Collection: 10/19/06 |
| Dil. Factor: 11.1 | Date of Analysis: 11/3/06 08:50 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 113 | 70-130 |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE**

**Lab ID#: 0610414B-01A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | |
|---|---|
| File Name: p102311 | Date of Collection: 10/19/06 |
| Dil. Factor: 1.00 | Date of Analysis: 10/23/06 12:47 PM |
| | Date of Extraction: 10/20/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 9.2 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 2.6 |
| 1,4-Dichlorobenzene | 1.0 | 10 |
| 1,2-Dichlorobenzene | 1.0 | 88 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | 4.8 J 15 |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 49 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 4.5 |
| Naphthalene | 1.0 | 100 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 5.9 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 21 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |

AS 11/17/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE**

**Lab ID#: 0610414B-01A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | p10231 | Date of Collection: | 10/19/06 |
| DIL Factor: | 1.00 | Date of Analysis: | 10/23/06 12:47 PM |
| | | Date of Extraction: | 10/20/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | 0.99 J 15 |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 4.2 J 15 |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 61 | 50-150 |
| Phenol-d5 | 83 | 50-150 |
| Nitrobenzene-d5 | 95 | 50-150 |
| 2,4,6-Tribromophenol | 71 | 50-150 |
| Fluorene-d10 | 75 | 60-120 |
| Pyrene-d10 | 77 | 60-120 |



11/17/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 2 SBPA ISVE**

**Lab ID#: 0610414B-02A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

File Name: p102312 | Date of Collection: 10/19/06
Dil. Factor: 1.00 | Date of Analysis: 10/23/06 01:17 PM
Date of Extraction: 10/20/06

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 2.1 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 2.3 |
| 1,4-Dichlorobenzene | 1.0 | 5.0 |
| 1,2-Dichlorobenzene | 1.0 | 22 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 5.9 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 0.53 J 15 |
| Naphthalene | 1.0 | 22 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 8.2 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 12 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | 1.3 J 15 |
| Fluorene | 1.0 | Not Detected |

CG 11/01/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 2 SBPA ISVE**

**Lab ID#: 0610414B-02A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | n102312 | | Date of Collection: 10/19/06 |
| Dil. Factor: | 1.00 | | Date of Analysis: 10/23/06 01:11 PM |
| | | | Date of Extraction: 10/20/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 14 |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 71 | 50-150 |
| Phenol-d5 | 74 | 50-150 |
| Nitrobenzene-d5 | 76 | 50-150 |
| 2,4,6-Tribromophenol | 62 | 50-150 |
| Fluorene-d10 | 76 | 60-120 |
| Pyrene-d10 | 77 | 60-120 |



DS 11/7/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 2 SBPA ISVE Duplicate**

**Lab ID#: 0610414B-02AA**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | p102313 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 1.00 | Date of Analysis: | 10/23/06 01:47 PM |
| | | Date of Extraction: | 10/20/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 2.2 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 2.1 |
| 1,4-Dichlorobenzene | 1.0 | 5.1 |
| 1,2-Dichlorobenzene | 1.0 | 22 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 5.9 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 0.56 J /5 |
| Naphthalene | 1.0 | 22 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 7.7 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 12 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | 1.3 J /5 |
| Fluorene | 1.0 | Not Detected |

OKS 11/7/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 2 SBPA ISVE Duplicate**

**Lab ID#: 0610414B-02AA**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | p102313 | | Date of Collection: 10/18/06 |
| Dil. Factor: | 1.00 | | Date of Analysis: 10/23/06 01:47 PM |
| | | | Date of Extraction: 10/20/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 14 |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 69 | 50-150 |
| Phenol-d5 | 75 | 50-150 |
| Nitrobenzene-d5 | 75 | 50-150 |
| 2,4,6-Tribromophenol | 60 | 50-150 |
| Fluorene-d10 | 75 | 60-120 |
| Pyrene-d10 | 77 | 60-120 |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 3 TOX 1 INF**

**Lab ID#: 0610414B-03A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

File Name: p102314 Date of Collection: 10/19/06
Dil. Factor: 1.00 Date of Analysis: 10/23/06 02:17 PM
Date of Extraction: 10/20/06

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 2.2 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 2.6 |
| 1,4-Dichlorobenzene | 1.0 | 5.7 |
| 1,2-Dichlorobenzene | 1.0 | 24 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 3.0 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 0.72 J |
| Naphthalene | 1.0 | 25 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 8.8 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 14 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |



11/17/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 3 TOX 1 INF**

**Lab ID#: 0610414B-03A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | 102314 | Date of Collection: 10/19/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 10/23/06 02:17 PM |
| | | Date of Extraction: 10/20/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| Di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | Not Detected |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 69 | 50-150 |
| Phenol-d5 | 77 | 50-150 |
| Nitrobenzene-d5 | 77 | 50-150 |
| 2,4,6-Tribromophenol | 60 | 50-150 |
| Fluorene-d10 | 76 | 60-120 |
| Pyrene-d10 | 77 | 60-120 |

CMS 11/7/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 4 TOX 1 INF DUP**

**Lab ID#: 0610414B-04A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

File Name: [illegible]102320 | Date of Collection: 10/19/06
Dil. Factor: 1.00 | Date of Analysis: 10/23/06 05:16 PM
[illegible] | Date of Extraction: 10/20/06

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 2.8 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 2.9 |
| 1,4-Dichlorobenzene | 1.0 | 6.7 |
| 1,2-Dichlorobenzene | 1.0 | 28 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 3.8 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 0.91 J /5 |
| Naphthalene | 1.0 | 32 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 11 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 19 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | 1.0 J /5 |
| Fluorene | 1.0 | Not Detected |



11/7/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 4 TOX 1 INF DUP**

**Lab ID#: 0610414B-04A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | p102320 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 1.00 | Date of Analysis: | 10/23/06 05:16 PM |
| | | Date of Extraction: | 10/20/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| Di-n-Butylphthalate | 5.0 | 1.0 J |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | Not Detected |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 69 | 50-150 |
| Phenol-d5 | 72 | 50-150 |
| Nitrobenzene-d5 | 75 | 50-150 |
| 2,4,6-Tribromophenol | 57 | 50-150 |
| Fluorene-d10 | 76 | 60-120 |
| Pyrene-d10 | 78 | 60-120 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 5 TOX 1 EFF**

**Lab ID#: 0610414B-05A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

File Name: D102316 | Date of Collection: 10/19/06
Dil. Factor: 1.00 | Date of Analysis: 10/23/06 03:17 PM
Date of Extraction: 10/20/06

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | Not Detected |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | Not Detected |
| 1,4-Dichlorobenzene | 1.0 | Not Detected |
| 1,2-Dichlorobenzene | 1.0 | Not Detected |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | Not Detected |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | Not Detected |
| Naphthalene | 1.0 | Not Detected |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | Not Detected |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | Not Detected |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | 0.93 J |
| Fluorene | 1.0 | Not Detected |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 5 TOX 1 EFF**

**Lab ID#: 0610414B-05A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

File Name: p102316 Date of Collection: 10/19/06
Dil. Factor: 1.00 Date of Analysis: 10/23/06 03:17 PM
Date of Extraction: 10/20/06

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | Not Detected |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

*Container Type: XAD Tube*

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 59 | 50-150 |
| Phenol-d5 | 62 | 50-150 |
| Nitrobenzene-d5 | 60 | 50-150 |
| 2,4,6-Tribromophenol | 56 | 50-150 |
| Fluorene-d10 | 61 | 60-120 |
| Pyrene-d10 | 68 | 60-120 |



OLS 11/7/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 6 TOX 2 INF**

**Lab ID#: 0610414B-06A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | p102317 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 1.00 | Date of Analysis: | 10/23/06 03:46 PM |
| | | Date of Extraction: | 10/20/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 3.4 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 1.4 |
| 1,4-Dichlorobenzene | 1.0 | 5.1 |
| 1,2-Dichlorobenzene | 1.0 | 42 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 12 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 1.2 |
| Naphthalene | 1.0 | 24 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 2.1 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 4.8 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | 0.81 J 15 |
| Fluorene | 1.0 | Not Detected |



CLG 11/7/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 6 TOX 2 INF**

**Lab ID#: 0610414B-06A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | p102317 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 1.00 | Date of Analysis: | 10/23/06 03:46 PM |
| | | Date of Extraction: | 10/20/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| Di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 12 |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 75 | 50-150 |
| Phenol-d5 | 82 | 50-150 |
| Nitrobenzene-d5 | 79 | 50-150 |
| 2,4,6-Tribromophenol | 64 | 50-150 |
| Fluorene-d10 | 74 | 60-120 |
| Pyrene-d10 | 77 | 60-120 |



CMS 11/7/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP**

**Lab ID#: 0610414B-07A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

File Name: p102318 Date of Collection: 10/19/06
Dil. Factor: 1.00 Date of Analysis: 10/23/06 04:16 PM
Date of Extraction: 10/20/06

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 4.4 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 1.7 |
| 1,4-Dichlorobenzene | 1.0 | 6.3 |
| 1,2-Dichlorobenzene | 1.0 | 52 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 16 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 1.7 |
| Naphthalene | 1.0 | 32 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 2.9 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 6.0 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | 1.1 J |
| Fluorene | 1.0 | Not Detected |

CAS 11/17/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP**

**Lab ID#: 0610414B-07A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

File Name: p102318 Date of Collection: 10/19/06
Dil. Factor: 1.00 Date of Analysis: 10/23/06 04:16 PM
Date of Extraction: 10/20/06

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | 0.89 J |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 2.6 J |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 59 | 50-150 |
| Phenol-d5 | 82 | 50-150 |
| Nitrobenzene-d5 | 79 | 50-150 |
| 2,4,6-Tribromophenol | 65 | 50-150 |
| Fluorene-d10 | 75 | 60-120 |
| Pyrene-d10 | 77 | 60-120 |

CRS 11/7/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 8 TOX 2 EFF**

**Lab ID#: 0610414B-08A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | p102319 | Date of Collection: | 10/19/06 |
| Dil. Factor: | 1.00 | Date of Analysis: | 10/23/06 04:46 PM |
| | | Date of Extraction: | 10/20/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| Bis(2-Chloroethyl) Ether | 1.0 | Not Detected |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | Not Detected |
| 1,4-Dichlorobenzene | 1.0 | Not Detected |
| 1,2-Dichlorobenzene | 1.0 | Not Detected |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | Not Detected |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| Bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | Not Detected |
| Naphthalene | 1.0 | Not Detected |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | Not Detected |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | Not Detected |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | 0.92 J /T |
| Fluorene | 1.0 | Not Detected |



CKS 11/17/06

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 8 TOX 2 EFF**

**Lab ID#: 0610414B-08A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | D102319 | Date of Collection: 10/19/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 10/23/06 04:46 PM |
| | | Date of Extraction: 10/20/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 1.4 J |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 61 | 50-150 |
| Phenol-d5 | 63 | 50-150 |
| Nitrobenzene-d5 | 58 | 50-150 |
| 2,4,6-Tribromophenol | 63 | 50-150 |
| Fluorene-d10 | 62 | 60-120 |
| Pyrene-d10 | 66 | 60-120 |

# November 2, 2006 Off-Gas Sample Laboratory Results

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE**

**Lab ID#: 0611096AR1-01A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: 111410 | Date of Collection: 11/2/06 |
|---|---|
| Dil Factor: 1060 | Date of Analysis: 11/14/06 02:58 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 530 | Not Detected | 1400 | Not Detected |
| Bromomethane | 530 | Not Detected | 2000 | Not Detected |
| Chloroethane | 530 | Not Detected | 1400 | Not Detected |
| 1,1-Dichloroethene | 530 | 1900 | 2100 | 7400 |
| Methylene Chloride | 530 | 22000 | 1800 | 76000 |
| 1,1-Dichloroethane | 530 | 3100 | 2100 | 12000 |
| cis-1,2-Dichloroethene | 530 | 1600 | 2100 | 6400 |
| Chloroform | 530 | 2200 | 2600 | 11000 |
| 1,1,1-Trichloroethane | 530 | 25000 | 2900 | 130000 |
| Carbon Tetrachloride | 530 | Not Detected | 3300 | Not Detected |
| Benzene | 530 | 13000 | 1700 | 43000 |
| 1,2-Dichloroethane | 530 | 840 | 2100 | 3400 |
| Trichloroethene | 530 | 17000 | 2800 | 91000 |
| 1,2-Dichloropropane | 530 | 220 J | 2400 | 1000 J |
| cis-1,3-Dichloropropene | 530 | Not Detected | 2400 | Not Detected |
| Toluene | 530 | 110000 | 2000 | 420000 |
| trans-1,3-Dichloropropene | 530 | Not Detected | 2400 | Not Detected |
| 1,1,2-Trichloroethane | 530 | 180 J | 2900 | 1000 J |
| Tetrachloroethene | 530 | 22000 | 3600 | 150000 |
| Chlorobenzene | 530 | Not Detected | 2400 | Not Detected |
| Ethyl Benzene | 530 | 14000 | 2300 | 60000 |
| m,p-Xylene | 530 | 57000 | 2300 | 250000 |
| o-Xylene | 530 | 21000 | 2300 | 90000 |
| Styrene | 530 | Not Detected | 2200 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 530 | Not Detected | 3600 | Not Detected |
| Bromodichloromethane | 530 | Not Detected | 3600 | Not Detected |
| Dibromochloromethane | 530 | Not Detected | 4500 | Not Detected |
| Chloromethane | 2100 | Not Detected | 4400 | Not Detected |
| Acetone | 2100 | 13000 | 5000 | 30000 |
| Carbon Disulfide | 2100 | Not Detected | 6600 | Not Detected |
| trans-1,2-Dichloroethene | 2100 | Not Detected | 8400 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 2100 | 16000 | 6200 | 46000 |
| 4-Methyl-2-pentanone | 2100 | 7500 | 8700 | 31000 |
| 2-Hexanone | 2100 | Not Detected | 8700 | Not Detected |
| Bromoform | 2100 | Not Detected | 22000 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

12/19/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE**

**Lab ID#: 0611096AR1-01A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 111410 | Date of Collection: | 11/2/06 |
| Dil Factor: | 1060 | Date of Analysis: | 11/14/06 02:58 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |

CRG 12/19/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 2 SBPA ISVE**

**Lab ID#: 0611096AR1-02A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: 111411 | Date of Collection: 11/2/06 |
|---|---|
| Dil. Factor: 352 | Date of Analysis: 11/14/06 03:37 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 180 | 1800 | 450 | 4600 |
| Bromomethane | 180 | Not Detected | 680 | Not Detected |
| Chloroethane | 180 | 380 | 460 | 990 |
| 1,1-Dichloroethene | 180 | 1100 | 700 | 4400 |
| Methylene Chloride | 180 | 5600 | 610 | 20000 |
| 1,1-Dichloroethane | 180 | 2300 | 710 | 9200 |
| cis-1,2-Dichloroethene | 180 | 14000 | 700 | 56000 |
| Chloroform | 180 | 4700 | 860 | 23000 |
| 1,1,1-Trichloroethane | 180 | 18000 | 960 | 97000 |
| Carbon Tetrachloride | 180 | Not Detected | 1100 | Not Detected |
| Benzene | 180 | 3500 | 560 | 11000 |
| 1,2-Dichloroethane | 180 | 290 | 710 | 1200 |
| Trichloroethene | 180 | 14000 | 940 | 75000 |
| 1,2-Dichloropropane | 180 | 270 | 810 | 1300 |
| cis-1,3-Dichloropropene | 180 | Not Detected | 800 | Not Detected |
| Toluene | 180 | 39000 | 660 | 150000 |
| trans-1,3-Dichloropropene | 180 | Not Detected | 800 | Not Detected |
| 1,1,2-Trichloroethane | 180 | Not Detected | 960 | Not Detected |
| Tetrachloroethene | 180 | 26000 | 1200 | 180000 |
| Chlorobenzene | 180 | Not Detected | 810 | Not Detected |
| Ethyl Benzene | 180 | 7300 | 760 | 32000 |
| m,p-Xylene | 180 | 29000 | 760 | 120000 |
| o-Xylene | 180 | 13000 | 760 | 56000 |
| Styrene | 180 | Not Detected | 750 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 180 | Not Detected | 1200 | Not Detected |
| Bromodichloromethane | 180 | Not Detected | 1200 | Not Detected |
| Dibromochloromethane | 180 | Not Detected | 1500 | Not Detected |
| Chloromethane | 700 | Not Detected | 1400 | Not Detected |
| Acetone | 700 | 1300 | 1700 | 3000 |
| Carbon Disulfide | 700 | Not Detected | 2200 | Not Detected |
| trans-1,2-Dichloroethene | 700 | 110 J | 2800 | 440 J |
| 2-Butanone (Methyl Ethyl Ketone) | 700 | 810 | 2100 | 2400 |
| 4-Methyl-2-pentanone | 700 | 1000 | 2900 | 4100 |
| 2-Hexanone | 700 | Not Detected | 2900 | Not Detected |
| Bromoform | 700 | Not Detected | 7300 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

CPS 12/19/06

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 2 SBPA ISVE**

**Lab ID#: 0611096AR1-02A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 111411 | Date of Collection: | 11/2/06 |
| Dil. Factor: | 452 | Date of Analysis: | 11/14/06 03:37 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |

CRS 12/19/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 3 TOX 1 INF**

**Lab ID#: 0611096AR1-03A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: 111412 | Date of Collection: 11/2/06 |
|---|---|
| Dil. Factor: 264 | Date of Analysis: 11/14/06 04:16 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 130 | 1200 | 340 | 3000 |
| Bromomethane | 130 | Not Detected | 510 | Not Detected |
| Chloroethane | 130 | 180 | 350 | 480 |
| 1,1-Dichloroethene | 130 | 1100 | 520 | 4500 |
| Methylene Chloride | 130 | 6500 | 460 | 23000 |
| 1,1-Dichloroethane | 130 | 2100 | 530 | 8400 |
| cis-1,2-Dichloroethene | 130 | 11000 | 520 | 44000 |
| Chloroform | 130 | 4600 | 640 | 23000 |
| 1,1,1-Trichloroethane | 130 | 18000 | 720 | 98000 |
| Carbon Tetrachloride | 130 | Not Detected | 830 | Not Detected |
| Benzene | 130 | 2700 | 420 | 8800 |
| 1,2-Dichloroethane | 130 | 300 | 530 | 1200 |
| Trichloroethene | 130 | 15000 | 710 | 79000 |
| 1,2-Dichloropropane | 130 | 250 | 610 | 1200 |
| cis-1,3-Dichloropropene | 130 | Not Detected | 600 | Not Detected |
| Toluene | 130 | 31000 | 500 | 120000 |
| trans-1,3-Dichloropropene | 130 | Not Detected | 600 | Not Detected |
| 1,1,2-Trichloroethane | 130 | 51 J | 720 | 280 J |
| Tetrachloroethene | 130 | 26000 | 900 | 180000 |
| Chlorobenzene | 130 | Not Detected | 610 | Not Detected |
| Ethyl Benzene | 130 | 5600 | 570 | 24000 |
| m,p-Xylene | 130 | 23000 | 570 | 99000 |
| o-Xylene | 130 | 11000 | 570 | 46000 |
| Styrene | 130 | Not Detected | 560 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 130 | Not Detected | 910 | Not Detected |
| Bromodichloromethane | 130 | Not Detected | 880 | Not Detected |
| Dibromochloromethane | 130 | Not Detected | 1100 | Not Detected |
| Chloromethane | 530 | Not Detected | 1100 | Not Detected |
| Acetone | 530 | 830 | 1200 | 2000 |
| Carbon Disulfide | 530 | Not Detected | 1600 | Not Detected |
| trans-1,2-Dichloroethene | 530 | 95 J | 2100 | 380 J |
| 2-Butanone (Methyl Ethyl Ketone) | 530 | 580 | 1600 | 1700 |
| 4-Methyl-2-pentanone | 530 | 660 | 2200 | 2700 |
| 2-Hexanone | 530 | Not Detected | 2200 | Not Detected |
| Bromoform | 530 | Not Detected | 5400 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

CPS 12/19/06

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 3 TOX 1 INF**

**Lab ID#: 0611096AR1-03A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 111412 | Date of Collection: | 11/2/06 |
| DF: Factor: | 284 | Date of Analysis: | 11/14/06 04:16 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |

CMS 12/19/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 3 TOX 1 INF Duplicate**

**Lab ID#: 0611096AR1-03AA**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | 111413 | Date of Collection: 11/2/06 |
|---|---|---|
| Dil Factor: | 264 | Date of Analysis: 11/14/06 04:53 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 130 | 1200 | 340 | 2900 |
| Bromomethane | 130 | Not Detected | 510 | Not Detected |
| Chloroethane | 130 | 160 | 350 | 410 |
| 1,1-Dichloroethene | 130 | 1300 | 520 | 5000 |
| Methylene Chloride | 130 | 6200 | 460 | 21000 |
| 1,1-Dichloroethane | 130 | 2000 | 530 | 8000 |
| cis-1,2-Dichloroethene | 130 | 10000 | 520 | 42000 |
| Chloroform | 130 | 4400 | 640 | 22000 |
| 1,1,1-Trichloroethane | 130 | 17000 | 720 | 91000 |
| Carbon Tetrachloride | 130 | Not Detected | 830 | Not Detected |
| Benzene | 130 | 2700 | 420 | 8600 |
| 1,2-Dichloroethane | 130 | 280 | 530 | 1200 |
| Trichloroethene | 130 | 14000 | 710 | 76000 |
| 1,2-Dichloropropane | 130 | 240 | 610 | 1100 |
| cis-1,3-Dichloropropene | 130 | Not Detected | 600 | Not Detected |
| Toluene | 130 | 31000 | 500 | 120000 |
| trans-1,3-Dichloropropene | 130 | Not Detected | 600 | Not Detected |
| 1,1,2-Trichloroethane | 130 | 43 J /5 | 720 | 240 J |
| Tetrachloroethene | 130 | 25000 | 900 | 170000 |
| Chlorobenzene | 130 | Not Detected | 610 | Not Detected |
| Ethyl Benzene | 130 | 5500 | 570 | 24000 |
| m,p-Xylene | 130 | 22000 | 570 | 96000 |
| o-Xylene | 130 | 10000 | 570 | 45000 |
| Styrene | 130 | Not Detected | 560 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 130 | Not Detected | 910 | Not Detected |
| Bromodichloromethane | 130 | Not Detected | 880 | Not Detected |
| Dibromochloromethane | 130 | Not Detected | 1100 | Not Detected |
| Chloromethane | 530 | Not Detected | 1100 | Not Detected |
| Acetone | 530 | 780 | 1200 | 1900 |
| Carbon Disulfide | 530 | 54 J /5 | 1600 | 170 J |
| trans-1,2-Dichloroethene | 530 | 98 J /5 | 2100 | 390 J |
| 2-Butanone (Methyl Ethyl Ketone) | 530 | 560 | 1600 | 1600 |
| 4-Methyl-2-pentanone | 530 | 640 | 2200 | 2600 |
| 2-Hexanone | 530 | Not Detected | 2200 | Not Detected |
| Bromoform | 530 | Not Detected | 5400 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

OPS 12/19/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 3 TOX 1 INF Duplicate**

**Lab ID#: 0611096AR1-03AA**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 111413 | Date of Collection: | 11/2/06 |
| Dil. Factor: | 264 | Date of Analysis: | 11/14/06 04:53 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |

CRS 12/19/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 4 TOX 1 INF DUP**

**Lab ID#: 0611096AR1-04A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | 111414 | Date of Collection: 11/2/06 |
|---|---|---|
| Dil. Factor: | 352 | Date of Analysis: 11/14/06 05:30 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 180 | 1800 | 450 | 4600 |
| Bromomethane | 180 | Not Detected | 680 | Not Detected |
| Chloroethane | 180 | 500 | 460 | 1300 |
| 1,1-Dichloroethene | 180 | 840 | 700 | 3300 |
| Methylene Chloride | 180 | 5600 | 610 | 19000 |
| 1,1-Dichloroethane | 180 | 2200 | 710 | 8800 |
| cis-1,2-Dichloroethene | 180 | 13000 | 700 | 52000 |
| Chloroform | 180 | 4300 | 860 | 21000 |
| 1,1,1-Trichloroethane | 180 | 16000 | 960 | 90000 |
| Carbon Tetrachloride | 180 | Not Detected | 1100 | Not Detected |
| Benzene | 180 | 3200 | 560 | 10000 |
| 1,2-Dichloroethane | 180 | 260 | 710 | 1000 |
| Trichloroethene | 180 | 13000 | 940 | 72000 |
| 1,2-Dichloropropane | 180 | 250 | 810 | 1200 |
| cis-1,3-Dichloropropene | 180 | Not Detected | 800 | Not Detected |
| Toluene | 180 | 33000 | 660 | 120000 |
| trans-1,3-Dichloropropene | 180 | Not Detected | 800 | Not Detected |
| 1,1,2-Trichloroethane | 180 | 56 J | 960 | 310 J |
| Tetrachloroethene | 180 | 24000 | 1200 | 160000 |
| Chlorobenzene | 180 | Not Detected | 810 | Not Detected |
| Ethyl Benzene | 180 | 6000 | 760 | 26000 |
| m,p-Xylene | 180 | 24000 | 760 | 100000 |
| o-Xylene | 180 | 10000 | 760 | 46000 |
| Styrene | 180 | Not Detected | 750 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 180 | Not Detected | 1200 | Not Detected |
| Bromodichloromethane | 180 | Not Detected | 1200 | Not Detected |
| Dibromochloromethane | 180 | Not Detected | 1500 | Not Detected |
| Chloromethane | 700 | Not Detected | 1400 | Not Detected |
| Acetone | 700 | 910 | 1700 | 2200 |
| Carbon Disulfide | 700 | Not Detected | 2200 | Not Detected |
| trans-1,2-Dichloroethene | 700 | 100 J | 2800 | 420 J |
| 2-Butanone (Methyl Ethyl Ketone) | 700 | 530 J | 2100 | 1600 J |
| 4-Methyl-2-pentanone | 700 | 880 | 2900 | 3600 |
| 2-Hexanone | 700 | Not Detected | 2900 | Not Detected |
| Bromoform | 700 | Not Detected | 7300 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

12/19/06

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 4 TOX 1 INF DUP**

**Lab ID#: 0611096AR1-04A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 111414 | Date of Collection: | 11/2/06 |
| Dil. Factor: | 352 | Date of Analysis: | 11/14/06 05:30 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 95 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 5 TOX 1 EFF**

**Lab ID#: 0611096AR1-05A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: 111415 | Date of Collection: 11/2/06 |
|---|---|
| Dil. Factor: 2.18 | Date of Analysis: 11/14/06 06:07 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 1.1 | 91 | 2.8 | 230 |
| Bromomethane | 1.1 | Not Detected | 4.2 | Not Detected |
| Chloroethane | 1.1 | 1.6 | 2.9 | 4.2 |
| 1,1-Dichloroethene | 1.1 | 210 | 4.3 | 820 |
| Methylene Chloride | 1.1 | 50 | 3.8 | 170 |
| 1,1-Dichloroethane | 1.1 | 1.5 | 4.4 | 6.0 |
| cis-1,2-Dichloroethene | 1.1 | 98 | 4.3 | 390 |
| Chloroform | 1.1 | 7.4 | 5.3 | 36 |
| 1,1,1-Trichloroethane | 1.1 | 3.4 | 5.9 | 18 |
| Carbon Tetrachloride | 1.1 | 1.1 | 6.8 | 7.0 |
| Benzene | 1.1 | 170 | 3.5 | 560 |
| 1,2-Dichloroethane | 1.1 | 0.81 J /5 | 4.4 | 3.3 J |
| Trichloroethene | 1.1 | 160 | 5.8 | 890 |
| 1,2-Dichloropropane | 1.1 | Not Detected | 5.0 | Not Detected |
| cis-1,3-Dichloropropene | 1.1 | 0.81 J /5 | 4.9 | 3.7 J |
| Toluene | 1.1 | 35 | 4.1 | 130 |
| trans-1,3-Dichloropropene | 1.1 | 0.72 J /5 | 4.9 | 3.2 J |
| 1,1,2-Trichloroethane | 1.1 | Not Detected | 5.9 | Not Detected |
| Tetrachloroethene | 1.1 | 390 | 7.4 | 2600 |
| Chlorobenzene | 1.1 | 8.8 | 5.0 | 41 |
| Ethyl Benzene | 1.1 | 6.0 | 4.7 | 26 |
| m,p-Xylene | 1.1 | 30 | 4.7 | 130 |
| o-Xylene | 1.1 | 11 | 4.7 | 50 |
| Styrene | 1.1 | 25 | 4.6 | 110 |
| 1,1,2,2-Tetrachloroethane | 1.1 | Not Detected | 7.5 | Not Detected |
| Bromodichloromethane | 1.1 | 0.36 J /5 | 7.3 | 2.4 J |
| Dibromochloromethane | 1.1 | Not Detected | 9.3 | Not Detected |
| Chloromethane | 4.4 | 15 | 9.0 | 32 |
| Acetone | 4.4 | 24 | 10 | 57 |
| Carbon Disulfide | 4.4 | 5.4 | 14 | 17 |
| trans-1,2-Dichloroethene | 4.4 | 61 | 17 | 240 |
| 2-Butanone (Methyl Ethyl Ketone) | 4.4 | 8.0 | 13 | 24 |
| 4-Methyl-2-pentanone | 4.4 | 5.2 | 18 | 21 |
| 2-Hexanone | 4.4 | Not Detected | 18 | Not Detected |
| Bromoform | 4.4 | Not Detected | 45 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

12/19/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 5 TOX 1 EFF**

**Lab ID#: 0611096AR1-05A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 111415 | Date of Collection: | 11/2/06 |
| Dil. Facto | 2.18 | Date of Analysis: | 11/14/06 06:07 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 91 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

CPS 12/19/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 6 TOX 2 INF**

**Lab ID#: 0611096AR1-06A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | 111416 | Date of Collection: 11/2/06 |
|---|---|---|
| Dil. Factor: | 726 | Date of Analysis: 11/14/06 06:43 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 360 | 550 | 930 | 1400 |
| Bromomethane | 360 | Not Detected | 1400 | Not Detected |
| Chloroethane | 360 | Not Detected | 960 | Not Detected |
| 1,1-Dichloroethene | 360 | 820 | 1400 | 3300 |
| Methylene Chloride | 360 | 15000 | 1300 | 52000 |
| 1,1-Dichloroethane | 360 | 2800 | 1500 | 11000 |
| cis-1,2-Dichloroethene | 360 | 4900 | 1400 | 19000 |
| Chloroform | 360 | 1700 | 1800 | 8400 |
| 1,1,1-Trichloroethane | 360 | 20000 | 2000 | 110000 |
| Carbon Tetrachloride | 360 | Not Detected | 2300 | Not Detected |
| Benzene | 360 | 11000 | 1200 | 36000 |
| 1,2-Dichloroethane | 360 | 650 | 1500 | 2600 |
| Trichloroethene | 360 | 13000 | 2000 | 68000 |
| 1,2-Dichloropropane | 360 | 160 J 15 | 1700 | 740 J |
| cis-1,3-Dichloropropene | 360 | Not Detected | 1600 | Not Detected |
| Toluene | 360 | 85000 | 1400 | 320000 |
| trans-1,3-Dichloropropene | 360 | Not Detected | 1600 | Not Detected |
| 1,1,2-Trichloroethane | 360 | 130 J 15 | 2000 | 720 J |
| Tetrachloroethene | 360 | 16000 | 2500 | 110000 |
| Chlorobenzene | 360 | Not Detected | 1700 | Not Detected |
| Ethyl Benzene | 360 | 9200 | 1600 | 40000 |
| m,p-Xylene | 360 | 38000 | 1600 | 170000 |
| o-Xylene | 360 | 14000 | 1600 | 59000 |
| Styrene | 360 | Not Detected | 1500 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 360 | Not Detected | 2500 | Not Detected |
| Bromodichloromethane | 360 | Not Detected | 2400 | Not Detected |
| Dibromochloromethane | 360 | Not Detected | 3100 | Not Detected |
| Chloromethane | 1400 | Not Detected | 3000 | Not Detected |
| Acetone | 1400 | 15000 | 3400 | 36000 |
| Carbon Disulfide | 1400 | Not Detected | 4500 | Not Detected |
| trans-1,2-Dichloroethene | 1400 | Not Detected | 5800 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1400 | 16000 | 4300 | 46000 |
| 4-Methyl-2-pentanone | 1400 | 6000 | 5900 | 25000 |
| 2-Hexanone | 1400 | Not Detected | 5900 | Not Detected |
| Bromoform | 1400 | Not Detected | 15000 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

CRS 12/19/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 6 TOX 2 INF**

**Lab ID#: 0611096AR1-06A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 111416 | Date of Collection: | 11/2/06 |
| Dil. Factor: | 7.26 | Date of Analysis: | 11/14/06 06:43 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 93 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

CMS 12/09/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP**

**Lab ID#: 0611096AR1-07A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | 111417 | Date of Collection: 11/2/06 |
|---|---|---|
| Dil Factor: | 754 | Date of Analysis: 11/14/06 07:26 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 380 | 520 | 960 | 1300 |
| Bromomethane | 380 | Not Detected | 1500 | Not Detected |
| Chloroethane | 380 | Not Detected | 990 | Not Detected |
| 1,1-Dichloroethene | 380 | 910 | 1500 | 3600 |
| Methylene Chloride | 380 | 15000 | 1300 | 53000 |
| 1,1-Dichloroethane | 380 | 2800 | 1500 | 11000 |
| cis-1,2-Dichloroethene | 380 | 4700 | 1500 | 19000 |
| Chloroform | 380 | 1700 | 1800 | 8300 |
| 1,1,1-Trichloroethane | 380 | 20000 | 2000 | 110000 |
| Carbon Tetrachloride | 380 | Not Detected | 2400 | Not Detected |
| Benzene | 380 | 12000 | 1200 | 37000 |
| 1,2-Dichloroethane | 380 | 630 | 1500 | 2500 |
| Trichloroethene | 380 | 14000 | 2000 | 74000 |
| 1,2-Dichloropropane | 380 | 210 J | 1700 | 960 J |
| cis-1,3-Dichloropropene | 380 | Not Detected | 1700 | Not Detected |
| Toluene | 380 | 92000 | 1400 | 350000 |
| trans-1,3-Dichloropropene | 380 | Not Detected | 1700 | Not Detected |
| 1,1,2-Trichloroethane | 380 | 140 J | 2000 | 770 J |
| Tetrachloroethene | 380 | 17000 | 2600 | 120000 |
| Chlorobenzene | 380 | Not Detected | 1700 | Not Detected |
| Ethyl Benzene | 380 | 10000 | 1600 | 45000 |
| m,p-Xylene | 380 | 44000 | 1600 | 190000 |
| o-Xylene | 380 | 16000 | 1600 | 68000 |
| Styrene | 380 | Not Detected | 1600 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 380 | Not Detected | 2600 | Not Detected |
| Bromodichloromethane | 380 | Not Detected | 2500 | Not Detected |
| Dibromochloromethane | 380 | Not Detected | 3200 | Not Detected |
| Chloromethane | 1500 | Not Detected | 3100 | Not Detected |
| Acetone | 1500 | 10000 | 3600 | 24000 |
| Carbon Disulfide | 1500 | Not Detected | 4700 | Not Detected |
| trans-1,2-Dichloroethene | 1500 | Not Detected | 6000 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1500 | 13000 | 4400 | 38000 |
| 4-Methyl-2-pentanone | 1500 | 5800 | 6200 | 24000 |
| 2-Hexanone | 1500 | Not Detected | 6200 | Not Detected |
| Bromoform | 1500 | Not Detected | 16000 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

OMS 12/19/06

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP**

**Lab ID#: 0611096AR1-07A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 111417 | Date of Collection: | 11/2/06 |
| Dil. Factor: | 754 | Date of Analysis: | 11/14/06 07:26 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 91 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

CMS 12/19/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 8 TOX 2 EFF**

**Lab ID#: 0611096AR1-08A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: 111418 | Date of Collection: 11/2/06 |
|---|---|
| DF Factor: 13.4 | Date of Analysis: 11/14/06 08:04 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 6.7 | 54 | 17 | 140 |
| Bromomethane | 6.7 | Not Detected | 26 | Not Detected |
| Chloroethane | 6.7 | 5.6 J | 18 | 15 J |
| 1,1-Dichloroethene | 6.7 | 180 | 26 | 700 |
| Methylene Chloride | 6.7 | 430 | 23 | 1500 |
| 1,1-Dichloroethane | 6.7 | 62 | 27 | 250 |
| cis-1,2-Dichloroethene | 6.7 | 140 | 26 | 550 |
| Chloroform | 6.7 | 46 | 33 | 220 |
| 1,1,1-Trichloroethane | 6.7 | 460 | 36 | 2500 |
| Carbon Tetrachloride | 6.7 | 4.1 J | 42 | 26 J |
| Benzene | 6.7 | 490 | 21 | 1600 |
| 1,2-Dichloroethane | 6.7 | 16 | 27 | 65 |
| Trichloroethene | 6.7 | 380 | 36 | 2000 |
| 1,2-Dichloropropane | 6.7 | 4.1 J | 31 | 19 J |
| cis-1,3-Dichloropropene | 6.7 | Not Detected | 30 | Not Detected |
| Toluene | 6.7 | 1800 | 25 | 6900 |
| trans-1,3-Dichloropropene | 6.7 | Not Detected | 30 | Not Detected |
| 1,1,2-Trichloroethane | 6.7 | 3.5 J | 36 | 19 J |
| Tetrachloroethene | 6.7 | 640 | 45 | 4300 |
| Chlorobenzene | 6.7 | 4.3 J | 31 | 20 J |
| Ethyl Benzene | 6.7 | 180 | 29 | 800 |
| m,p-Xylene | 6.7 | 700 | 29 | 3000 |
| o-Xylene | 6.7 | 270 | 29 | 1200 |
| Styrene | 6.7 | 57 | 28 | 240 |
| 1,1,2,2-Tetrachloroethane | 6.7 | Not Detected | 46 | Not Detected |
| Bromodichloromethane | 6.7 | Not Detected | 45 | Not Detected |
| Dibromochloromethane | 6.7 | Not Detected | 57 | Not Detected |
| Chloromethane | 27 | 17 J | 55 | 35 J |
| Acetone | 27 | 1100 | 64 | 2700 |
| Carbon Disulfide | 27 | Not Detected | 83 | Not Detected |
| trans-1,2-Dichloroethene | 27 | 16 J | 110 | 63 J |
| 2-Butanone (Methyl Ethyl Ketone) | 27 | 990 | 79 | 2900 |
| 4-Methyl-2-pentanone | 27 | 210 | 110 | 870 |
| 2-Hexanone | 27 | 8.2 J | 110 | 33 J |
| Bromoform | 27 | Not Detected | 280 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 8 TOX 2 EFF**

**Lab ID#: 0611096AR1-08A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 111418 | Date of Collection: | 11/2/06 |
| Dil. Factor: | 13.4 | Date of Analysis: | 11/14/06 08:04 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 93 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE**

**Lab ID#: 0611096B-01A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | p111319 | Date of Collection: 11/2/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 11/13/06 07:28 PM |
| | | Date of Extraction: 11/7/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | Not Detected |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 2.7 |
| 1,4-Dichlorobenzene | 1.0 | 10 |
| 1,2-Dichlorobenzene | 1.0 | 77 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 41 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 4.4 |
| Naphthalene | 1.0 | 98 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 6.4 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 20 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE**

**Lab ID#: 0611096B-01A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | p111319 | Date of Collection: 11/2/06 |
| Dil Factor: | 1.00 | Date of Analysis: 11/13/06 07:28 PM |
| | | Date of Extraction: 11/7/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | 2.9 J |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 5.8 |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 76 | 50-150 |
| Phenol-d5 | 78 | 50-150 |
| Nitrobenzene-d5 | 87 | 50-150 |
| 2,4,6-Tribromophenol | 67 | 50-150 |
| Fluorene-d10 | 78 | 60-120 |
| Pyrene-d10 | 82 | 60-120 |

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 2 SBPA ISVE**

**Lab ID#: 0611096B-02A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | p111320 | Date of Collection: 11/2/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 11/13/06 07:58 PM |
| | | Date of Extraction: 11/7/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 3.2 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 2.7 |
| 1,4-Dichlorobenzene | 1.0 | 5.7 |
| 1,2-Dichlorobenzene | 1.0 | 24 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 2.8 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 11 |
| Naphthalene | 1.0 | 17 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 10 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 9.1 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 2 SBPA ISVE

Lab ID#: 0611096B-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

| | | |
|---|---|---|
| File Name: | p111320 | Date of Collection: 11/2/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 11/13/06 07:58 PM |
| | | Date of Extraction: 11/7/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | 1.4 J |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 4.4 J |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 80 | 50-150 |
| Phenol-d5 | 77 | 50-150 |
| Nitrobenzene-d5 | 79 | 50-150 |
| 2,4,6-Tribromophenol | 64 | 50-150 |
| Fluorene-d10 | 82 | 60-120 |
| Pyrene-d10 | 84 | 60-120 |

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 4 TOX1 INF DUP**

**Lab ID#: 0611096B-03A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | p111321 | Date of Collection: | 11/2/06 |
| Dil. Factor: | 1.00 | Date of Analysis: | 11/13/06 08:28 PM |
| | | Date of Extraction: | 11/7/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 2.9 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 3.1 |
| 1,4-Dichlorobenzene | 1.0 | 6.6 |
| 1,2-Dichlorobenzene | 1.0 | 26 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 3.0 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 12 |
| Naphthalene | 1.0 | 18 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 11 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 9.6 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 4 TOX1 INF DUP**

**Lab ID#: 0611096B-03A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | p111321 | Date of Collection: | 11/2/06 |
| Dil. Factor: | 1.00 | Date of Analysis: | 11/13/06 08:28 PM |
| | | Date of Extraction: | 11/7/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | 1.1 J /5 |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 1.5 J /5 |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 78 | 50-150 |
| Phenol-d5 | 74 | 50-150 |
| Nitrobenzene-d5 | 80 | 50-150 |
| 2,4,6-Tribromophenol | 59 | 50-150 |
| Fluorene-d10 | 80 | 60-120 |
| Pyrene-d10 | 80 | 60-120 |

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 5 TOX1 EFF**

**Lab ID#: 0611096B-04A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | p111322 | Date of Collection: 11/2/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 11/13/06 08:58 PM |
| | | Date of Extraction: 11/7/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | Not Detected |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | Not Detected |
| 1,4-Dichlorobenzene | 1.0 | Not Detected |
| 1,2-Dichlorobenzene | 1.0 | Not Detected |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | Not Detected |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | Not Detected |
| Naphthalene | 1.0 | Not Detected |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | Not Detected |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | Not Detected |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 5 TOX1 EFF**

**Lab ID#: 0611096B-04A**

***MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN***

| | | |
|---|---|---|
| File Name: | p111322 | Date of Collection: 11/2/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 11/13/06 08:58 PM |
| | | Date of Extraction: 11/7/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | 1.3 J |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | Not Detected |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 73 | 50-150 |
| Phenol-d5 | 74 | 50-150 |
| Nitrobenzene-d5 | 73 | 50-150 |
| 2,4,6-Tribromophenol | 63 | 50-150 |
| Fluorene-d10 | 72 | 60-120 |
| Pyrene-d10 | 77 | 60-120 |

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP**

**Lab ID#: 0611096B-05A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 111321 | Date of Collection: | 11/2/06 |
| Dil. Factor: | 1.00 | Date of Analysis: | 11/13/06 09:27 PM |
| | | Date of Extraction: | 11/7/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 2.2 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | 3.2 |
| 1,2-Dichlorobenzene | 1.0 | 24 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 5.3 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 0.67 J 15 |
| Naphthalene | 1.0 | 12 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 1.2 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 2.2 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |

CBS 12/19/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP**

**Lab ID#: 0611096B-05A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | p111323 | Date of Collection: | 11/2/06 |
| Dil. Factor: | 1.00 | Date of Analysis: | 11/13/06 09:27 PM |
| | | Date of Extraction: | 11/7/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | 1.1 J |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 1.1 J |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 80 | 50-150 |
| Phenol-d5 | 77 | 50-150 |
| Nitrobenzene-d5 | 85 | 50-150 |
| 2,4,6-Tribromophenol | 61 | 50-150 |
| Fluorene-d10 | 79 | 60-120 |
| Pyrene-d10 | 82 | 60-120 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 8 TOX 2 EFF**

**Lab ID#: 0611096B-06A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | n111324 | Date of Collection: 11/2/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 11/13/06 09:57 PM |
| | | Date of Extraction: 11/7/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | Not Detected |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | Not Detected |
| 1,4-Dichlorobenzene | 1.0 | Not Detected |
| 1,2-Dichlorobenzene | 1.0 | 1.4 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | Not Detected |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | Not Detected |
| Naphthalene | 1.0 | 2.0 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | Not Detected |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | Not Detected |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |

12/19/06

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 8 TOX 2 EFF**

**Lab ID#: 0611096B-06A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| File Name: | b111324 | Date of Collection: 11/2/06 |
|---|---|---|
| Dil. Factor: | 1.00 | Date of Analysis: 11/13/06 09:57 PM |
| | | Date of Extraction: 11/7/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | 1.1 J |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 3.8 J |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 67 | 50-150 |
| Phenol-d5 | 70 | 50-150 |
| Nitrobenzene-d5 | 70 | 50-150 |
| 2,4,6-Tribromophenol | 53 | 50-150 |
| Fluorene-d10 | 73 | 60-120 |
| Pyrene-d10 | 75 | 60-120 |

CRS 12/19/06

# December 11, 2006 Off-Gas Sample Laboratory Results

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE**

**Lab ID#: 0612226AR1-01A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | 1122509 | Date of Collection: | 12/11/06 |
|---|---|---|---|
| Dil. Factor: | 536 | Date of Analysis: | 12/25/06 05:04 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 270 | Not Detected | 680 | Not Detected |
| Bromomethane | 270 | Not Detected | 1000 | Not Detected |
| Chloroethane | 270 | Not Detected | 710 | Not Detected |
| 1,1-Dichloroethene | 270 | 360 | 1100 | 1400 |
| Methylene Chloride | 270 | 19000 | 930 | 65000 |
| 1,1-Dichloroethane | 270 | 2700 | 1100 | 11000 |
| cis-1,2-Dichloroethene | 270 | 1400 | 1100 | 5600 |
| Chloroform | 270 | 1800 | 1300 | 8700 |
| 1,1,1-Trichloroethane | 270 | 21000 | 1500 | 110000 |
| Carbon Tetrachloride | 270 | Not Detected | 1700 | Not Detected |
| Benzene | 270 | 12000 | 860 | 38000 |
| 1,2-Dichloroethane | 270 | 660 | 1100 | 2700 |
| Trichloroethene | 270 | 13000 | 1400 | 69000 |
| 1,2-Dichloropropane | 270 | 180 J | 1200 | 830 J |
| cis-1,3-Dichloropropene | 270 | Not Detected | 1200 | Not Detected |
| Toluene | 270 | 86000 | 1000 | 320000 |
| trans-1,3-Dichloropropene | 270 | Not Detected | 1200 | Not Detected |
| 1,1,2-Trichloroethane | 270 | 160 J | 1500 | 880 J |
| Tetrachloroethene | 270 | 16000 | 1800 | 110000 |
| Chlorobenzene | 270 | Not Detected | 1200 | Not Detected |
| Ethyl Benzene | 270 | 10000 | 1200 | 45000 |
| m,p-Xylene | 270 | 44000 | 1200 | 190000 |
| o-Xylene | 270 | 17000 | 1200 | 72000 |
| Styrene | 270 | Not Detected | 1100 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 270 | Not Detected | 1800 | Not Detected |
| Bromodichloromethane | 270 | Not Detected | 1800 | Not Detected |
| Dibromochloromethane | 270 | Not Detected | 2300 | Not Detected |
| Chloromethane | 1100 | Not Detected | 2200 | Not Detected |
| Acetone | 1100 | 16000 | 2500 | 39000 |
| Carbon Disulfide | 1100 | 440 J | 3300 | 1400 J |
| trans-1,2-Dichloroethene | 1100 | Not Detected | 4200 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1100 | 16000 | 3200 | 49000 |
| 4-Methyl-2-pentanone | 1100 | 7100 | 4400 | 29000 |
| 2-Hexanone | 1100 | 220 J | 4400 | 890 J |
| Bromoform | 1100 | Not Detected | 11000 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

CH 2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE**

**Lab ID#: 0612226AR1-01A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 1122509 | Date of Collection: | 12/11/06 |
| DIL Factor: | 536 | Date of Analysis: | 12/25/06 05:04 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |



OK
2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 2 SBPA ISVE**

**Lab ID#: 0612226AR1-02A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | f122213 | Date of Collection: | 12/11/06 |
|---|---|---|---|
| Dil. Factor: | 268 | Date of Analysis: | 12/22/06 06:32 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 130 | 1300 | 340 | 3300 |
| Bromomethane | 130 | Not Detected | 520 | Not Detected |
| Chloroethane | 130 | 640 J | 350 | 1700 |
| 1,1-Dichloroethene | 130 | 1100 | 530 | 4200 |
| Methylene Chloride | 130 | 6400 | 460 | 22000 |
| 1,1-Dichloroethane | 130 | 2900 | 540 | 12000 |
| cis-1,2-Dichloroethene | 130 | 14000 | 530 | 56000 |
| Chloroform | 130 | 4600 | 650 | 22000 |
| 1,1,1-Trichloroethane | 130 | 17000 | 730 | 95000 |
| Carbon Tetrachloride | 130 | Not Detected | 840 | Not Detected |
| Benzene | 130 | 5200 | 430 | 17000 |
| 1,2-Dichloroethane | 130 | 250 | 540 | 1000 |
| Trichloroethene | 130 | 13000 | 720 | 72000 |
| 1,2-Dichloropropane | 130 | 290 | 620 | 1400 |
| cis-1,3-Dichloropropene | 130 | Not Detected | 610 | Not Detected |
| Toluene | 130 | 42000 | 500 | 160000 |
| trans-1,3-Dichloropropene | 130 | Not Detected | 610 | Not Detected |
| 1,1,2-Trichloroethane | 130 | 66 J | 730 | 360 J |
| Tetrachloroethene | 130 | 25000 | 910 | 170000 |
| Chlorobenzene | 130 | 57 J | 620 | 260 J |
| Ethyl Benzene | 130 | 10000 | 580 | 45000 |
| m,p-Xylene | 130 | 44000 | 580 | 190000 |
| o-Xylene | 130 | 20000 | 580 | 88000 |
| Styrene | 130 | Not Detected | 570 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 130 | Not Detected | 920 | Not Detected |
| Bromodichloromethane | 130 | Not Detected | 900 | Not Detected |
| Dibromochloromethane | 130 | Not Detected | 1100 | Not Detected |
| Chloromethane | 540 | Not Detected | 1100 | Not Detected |
| Acetone | 540 | 1200 | 1300 | 2800 |
| Carbon Disulfide | 540 | 77 J | 1700 | 240 J |
| trans-1,2-Dichloroethene | 540 | 120 J | 2100 | 470 J |
| 2-Butanone (Methyl Ethyl Ketone) | 540 | 1000 | 1600 | 3000 |
| 4-Methyl-2-pentanone | 540 | 1600 | 2200 | 6400 |
| 2-Hexanone | 540 | Not Detected | 2200 | Not Detected |
| Bromoform | 540 | Not Detected | 5500 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 2 SBPA ISVE**

**Lab ID#: 0612226AR1-02A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | T122213 | Date of Collection: | 12/11/06 |
| Dil. Factor: | 2.68 | Date of Analysis: | 12/22/06 05:42 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 82 | 70-130 |
| Toluene-d8 | 105 | 70-130 |
| 4-Bromofluorobenzene | 91 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 3 TOX 1 INF**

**Lab ID#: 0612226AR1-03A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | 122212 | Date of Collection: 12/11/06 |
|---|---|---|
| Dil. Factor: | 268 | Date of Analysis: 12/22/06 06:01 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 130 | 1500 | 340 | 3800 |
| Bromomethane | 130 | Not Detected | 520 | Not Detected |
| Chloroethane | 130 | 770 | 350 | 2000 |
| 1,1-Dichloroethene | 130 | 1200 | 530 | 5000 |
| Methylene Chloride | 130 | 6600 | 460 | 23000 |
| 1,1-Dichloroethane | 130 | 3100 | 540 | 12000 |
| cis-1,2-Dichloroethene | 130 | 15000 | 530 | 60000 |
| Chloroform | 130 | 4900 | 650 | 24000 |
| 1,1,1-Trichloroethane | 130 | 18000 | 730 | 100000 |
| Carbon Tetrachloride | 130 | Not Detected | 840 | Not Detected |
| Benzene | 130 | 4800 | 430 | 15000 |
| 1,2-Dichloroethane | 130 | 270 | 540 | 1100 |
| Trichloroethene | 130 | 14000 | 720 | 74000 |
| 1,2-Dichloropropane | 130 | 300 | 620 | 1400 |
| cis-1,3-Dichloropropene | 130 | Not Detected | 610 | Not Detected |
| Toluene | 130 | 41000 | 500 | 150000 |
| trans-1,3-Dichloropropene | 130 | Not Detected | 610 | Not Detected |
| 1,1,2-Trichloroethane | 130 | 47 J | 730 | 260 J |
| Tetrachloroethene | 130 | 26000 | 910 | 170000 |
| Chlorobenzene | 130 | 69 J | 620 | 320 J |
| Ethyl Benzene | 130 | 9300 | 580 | 40000 |
| m,p-Xylene | 130 | 39000 | 580 | 170000 |
| o-Xylene | 130 | 18000 | 580 | 77000 |
| Styrene | 130 | Not Detected | 570 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 130 | Not Detected | 920 | Not Detected |
| Bromodichloromethane | 130 | Not Detected | 900 | Not Detected |
| Dibromochloromethane | 130 | Not Detected | 1100 | Not Detected |
| Chloromethane | 540 | Not Detected | 1100 | Not Detected |
| Acetone | 540 | 1200 | 1300 | 2900 |
| Carbon Disulfide | 540 | 33 J | 1700 | 100 J |
| trans-1,2-Dichloroethene | 540 | 110 J | 2100 | 440 J |
| 2-Butanone (Methyl Ethyl Ketone) | 540 | 940 | 1600 | 2800 |
| 4-Methyl-2-pentanone | 540 | 1500 | 2200 | 6300 |
| 2-Hexanone | 540 | Not Detected | 2200 | Not Detected |
| Bromoform | 540 | Not Detected | 5500 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 3 TOX 1 INF**

**Lab ID#: 0612226AR1-03A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 2 | f122212 | Date of Collection: 12/11/06 |
| DILFactor: | | 2.00 | Date of Analysis: 12/22/06 06:01 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 81 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 91 | 70-130 |

CMS 2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 4 TOX 1 INF DUP**

**Lab ID#: 0612226AR1-04A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | f122214 | Date of Collection: | 12/11/06 |
|---|---|---|---|
| Dil. Factor: | 260 | Date of Analysis: | 12/22/06 07:31 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 130 | 1500 | 340 | 3900 |
| Bromomethane | 130 | Not Detected | 520 | Not Detected |
| Chloroethane | 130 | 780 | 350 | 2000 |
| 1,1-Dichloroethene | 130 | 1300 | 530 | 5200 |
| Methylene Chloride | 130 | 7500 | 460 | 26000 |
| 1,1-Dichloroethane | 130 | 3300 | 540 | 14000 |
| cis-1,2-Dichloroethene | 130 | 17000 | 530 | 66000 |
| Chloroform | 130 | 5300 | 650 | 26000 |
| 1,1,1-Trichloroethane | 130 | 19000 | 730 | 100000 |
| Carbon Tetrachloride | 130 | Not Detected | 840 | Not Detected |
| Benzene | 130 | 5600 | 430 | 18000 |
| 1,2-Dichloroethane | 130 | 280 | 540 | 1100 |
| Trichloroethene | 130 | 15000 | 720 | 82000 |
| 1,2-Dichloropropane | 130 | 340 | 620 | 1600 |
| cis-1,3-Dichloropropene | 130 | Not Detected | 610 | Not Detected |
| Toluene | 130 | 48000 | 500 | 180000 |
| trans-1,3-Dichloropropene | 130 | Not Detected | 610 | Not Detected |
| 1,1,2-Trichloroethane | 130 | 70 J | 730 | 380 J |
| Tetrachloroethene | 130 | 28000 | 910 | 190000 |
| Chlorobenzene | 130 | 97 J | 620 | 440 J |
| Ethyl Benzene | 130 | 11000 | 580 | 48000 |
| m,p-Xylene | 130 | 46000 | 580 | 200000 |
| o-Xylene | 130 | 21000 | 580 | 91000 |
| Styrene | 130 | Not Detected | 570 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 130 | Not Detected | 920 | Not Detected |
| Bromodichloromethane | 130 | Not Detected | 900 | Not Detected |
| Dibromochloromethane | 130 | Not Detected | 1100 | Not Detected |
| Chloromethane | 540 | Not Detected | 1100 | Not Detected |
| Acetone | 540 | 1300 | 1300 | 3000 |
| Carbon Disulfide | 540 | 39 J | 1700 | 120 J |
| trans-1,2-Dichloroethene | 540 | 140 J | 2100 | 560 J |
| 2-Butanone (Methyl Ethyl Ketone) | 540 | 1100 | 1600 | 3200 |
| 4-Methyl-2-pentanone | 540 | 1800 | 2200 | 7400 |
| 2-Hexanone | 540 | Not Detected | 2200 | Not Detected |
| Bromoform | 540 | Not Detected | 5500 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 4 TOX 1 INF DUP**

**Lab ID#: 0612226AR1-04A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | f122214 | Date of Collection: | 12/11/06 |
| Dil. Factor: | 266 | Date of Analysis: | 12/22/06 07:31 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 79 | 70-130 |
| Toluene-d8 | 105 | 70-130 |
| 4-Bromofluorobenzene | 89 | 70-130 |

CAS 2/1/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 5 TOX 1 EFF**

**Lab ID#: 0612226AR1-05A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | 1122215 | Date of Collection: 12/11/06 |
|---|---|---|
| Dil. Factor: | 1.34 | Date of Analysis: 12/22/06 08:12 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 0.67 | 76 | 1.7 | 190 |
| Bromomethane | 0.67 | Not Detected | 2.6 | Not Detected |
| Chloroethane | 0.67 | 3.2 15 | 1.8 | 8.4 |
| 1,1-Dichloroethene | 0.67 | 200 | 2.6 | 800 |
| Methylene Chloride | 0.67 | 50 | 2.3 | 170 |
| 1,1-Dichloroethane | 0.67 | 7.9 | 2.7 | 32 |
| cis-1,2-Dichloroethene | 0.67 | 87 | 2.6 | 340 |
| Chloroform | 0.67 | 13 | 3.3 | 62 |
| 1,1,1-Trichloroethane | 0.67 | 43 | 3.6 | 240 |
| Carbon Tetrachloride | 0.67 | 0.60 J 15 | 4.2 | 3.8 J |
| Benzene | 0.67 | 120 | 2.1 | 400 |
| 1,2-Dichloroethane | 0.67 | 0.85 | 2.7 | 3.4 |
| Trichloroethene | 0.67 | 120 | 3.6 | 630 |
| 1,2-Dichloropropane | 0.67 | 0.77 | 3.1 | 3.6 |
| cis-1,3-Dichloropropene | 0.67 | 0.25 J 15 | 3.0 | 1.1 J |
| Toluene | 0.67 | 100 | 2.5 | 390 |
| trans-1,3-Dichloropropene | 0.67 | 0.24 J 15 | 3.0 | 1.1 J |
| 1,1,2-Trichloroethane | 0.67 | 0.25 J 15 | 3.6 | 1.4 J |
| Tetrachloroethene | 0.67 | 260 | 4.5 | 1800 |
| Chlorobenzene | 0.67 | 6.3 | 3.1 | 29 |
| Ethyl Benzene | 0.67 | 24 | 2.9 | 110 |
| m,p-Xylene | 0.67 | 110 | 2.9 | 480 |
| o-Xylene | 0.67 | 50 | 2.9 | 220 |
| Styrene | 0.67 | 12 | 2.8 | 51 |
| 1,1,2,2-Tetrachloroethane | 0.67 | Not Detected | 4.6 | Not Detected |
| Bromodichloromethane | 0.67 | Not Detected | 4.5 | Not Detected |
| Dibromochloromethane | 0.67 | Not Detected | 5.7 | Not Detected |
| Chloromethane | 2.7 | 8.9 | 5.5 | 18 |
| Acetone | 2.7 | 23 | 6.4 | 55 |
| Carbon Disulfide | 2.7 | 120 | 8.3 | 380 |
| trans-1,2-Dichloroethene | 2.7 | 43 | 11 | 170 |
| 2-Butanone (Methyl Ethyl Ketone) | 2.7 | 560 E 1E | 7.9 | 1600 E |
| 4-Methyl-2-pentanone | 2.7 | 44 | 11 | 180 |
| 2-Hexanone | 2.7 | 1.2 J 15 | 11 | 4.7 J |
| Bromoform | 2.7 | Not Detected | 28 | Not Detected |

J = Estimated value.
E = Exceeds instrument calibration range.
**Container Type: 6 Liter Summa Canister**

CRS 2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 5 TOX 1 EFF**

**Lab ID#: 0612226AR1-05A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | f122215 | Date of Collection: | 12/11/06 |
| Dil. Factor: | 1.34 | Date of Analysis: | 12/22/06 01:12 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 76 | 70-130 |
| Toluene-d8 | 106 | 70-130 |
| 4-Bromofluorobenzene | 94 | 70-130 |



CMS 2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 6 TOX 2 INF**

**Lab ID#: 0612226AR1-06A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | 122510 | Date of Collection: | 12/11/06 |
|---|---|---|---|
| Dil Factor: | 520 | Date of Analysis: | 12/25/06 05:37 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 260 | Not Detected | 660 | Not Detected |
| Bromomethane | 260 | Not Detected | 1000 | Not Detected |
| Chloroethane | 260 | Not Detected | 690 | Not Detected |
| 1,1-Dichloroethene | 260 | 380 | 1000 | 1500 |
| Methylene Chloride | 260 | 19000 | 900 | 66000 |
| 1,1-Dichloroethane | 260 | 2800 | 1000 | 11000 |
| cis-1,2-Dichloroethene | 260 | 1400 | 1000 | 5600 |
| Chloroform | 260 | 1800 | 1300 | 8800 |
| 1,1,1-Trichloroethane | 260 | 22000 | 1400 | 120000 |
| Carbon Tetrachloride | 260 | Not Detected | 1600 | Not Detected |
| Benzene | 260 | 13000 | 830 | 40000 |
| 1,2-Dichloroethane | 260 | 650 | 1000 | 2600 |
| Trichloroethene | 260 | 13000 | 1400 | 70000 |
| 1,2-Dichloropropane | 260 | 200 J 15 | 1200 | 920 J |
| cis-1,3-Dichloropropene | 260 | Not Detected 12 | 1200 | Not Detected |
| Toluene | 260 | 83000 | 980 | 310000 |
| trans-1,3-Dichloropropene | 260 | Not Detected | 1200 | Not Detected |
| 1,1,2-Trichloroethane | 260 | 140 J 15 | 1400 | 770 J |
| Tetrachloroethene | 260 | 16000 | 1800 | 110000 |
| Chlorobenzene | 260 | Not Detected | 1200 | Not Detected |
| Ethyl Benzene | 260 | 9700 | 1100 | 42000 |
| m,p-Xylene | 260 | 40000 | 1100 | 180000 |
| o-Xylene | 260 | 15000 | 1100 | 64000 |
| Styrene | 260 | Not Detected | 1100 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 260 | Not Detected | 1800 | Not Detected |
| Bromodichloromethane | 260 | Not Detected | 1700 | Not Detected |
| Dibromochloromethane | 260 | Not Detected | 2200 | Not Detected |
| Chloromethane | 1000 | Not Detected | 2100 | Not Detected |
| Acetone | 1000 | 15000 | 2500 | 35000 |
| Carbon Disulfide | 1000 | 170 J 15 | 3200 | 540 J |
| trans-1,2-Dichloroethene | 1000 | Not Detected | 4100 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1000 | 16000 | 3100 | 46000 |
| 4-Methyl-2-pentanone | 1000 | 6600 | 4300 | 27000 |
| 2-Hexanone | 1000 | 180 J 15 | 4300 | 750 J |
| Bromoform | 1000 | Not Detected | 11000 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

CMS 2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 6 TOX 2 INF**

**Lab ID#: 0612226AR1-06A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 1122510 | Date of Collection: | 12/14/06 |
| Dil. Factor: | 520 | Date of Analysis: | 12/25/06 05:57 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



OK 2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 6 TOX 2 INF Duplicate**

**Lab ID#: 0612226AR1-06AA**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | 1122511 | Date of Collection: 12/11/06 |
|---|---|---|
| Dil. Factor: | 520 | Date of Analysis: 12/25/06 06:38 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 260 | Not Detected | 660 | Not Detected |
| Bromomethane | 260 | Not Detected | 1000 | Not Detected |
| Chloroethane | 260 | Not Detected | 690 | Not Detected |
| 1,1-Dichloroethene | 260 | 380 | 1000 | 1500 |
| Methylene Chloride | 260 | 19000 | 900 | 66000 |
| 1,1-Dichloroethane | 260 | 2800 | 1000 | 11000 |
| cis-1,2-Dichloroethene | 260 | 1400 | 1000 | 5500 |
| Chloroform | 260 | 1900 | 1300 | 9100 |
| 1,1,1-Trichloroethane | 260 | 22000 | 1400 | 120000 |
| Carbon Tetrachloride | 260 | Not Detected | 1600 | Not Detected |
| Benzene | 260 | 13000 | 830 | 41000 |
| 1,2-Dichloroethane | 260 | 720 | 1000 | 2900 |
| Trichloroethene | 260 | 13000 | 1400 | 71000 |
| 1,2-Dichloropropane | 260 | 210 J | 1200 | 980 J |
| cis-1,3-Dichloropropene | 260 | Not Detected | 1200 | Not Detected |
| Toluene | 260 | 84000 | 980 | 320000 |
| trans-1,3-Dichloropropene | 260 | Not Detected | 1200 | Not Detected |
| 1,1,2-Trichloroethane | 260 | 150 J | 1400 | 830 J |
| Tetrachloroethene | 260 | 17000 | 1800 | 110000 |
| Chlorobenzene | 260 | Not Detected | 1200 | Not Detected |
| Ethyl Benzene | 260 | 10000 | 1100 | 43000 |
| m,p-Xylene | 260 | 42000 | 1100 | 180000 |
| o-Xylene | 260 | 15000 | 1100 | 67000 |
| Styrene | 260 | Not Detected | 1100 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 260 | Not Detected | 1800 | Not Detected |
| Bromodichloromethane | 260 | Not Detected | 1700 | Not Detected |
| Dibromochloromethane | 260 | Not Detected | 2200 | Not Detected |
| Chloromethane | 1000 | Not Detected | 2100 | Not Detected |
| Acetone | 1000 | 15000 | 2500 | 36000 |
| Carbon Disulfide | 1000 | 150 J | 3200 | 470 J |
| trans-1,2-Dichloroethene | 1000 | Not Detected | 4100 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1000 | 16000 | 3100 | 48000 |
| 4-Methyl-2-pentanone | 1000 | 7000 | 4300 | 28000 |
| 2-Hexanone | 1000 | 180 J | 4300 | 720 J |
| Bromoform | 1000 | Not Detected | 11000 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 6 TOX 2 INF Duplicate**

**Lab ID#: 0612226AR1-06AA**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 1122511 | Date of Collection: | 12/11/06 |
| Dil. Factor: | 5.20 | Date of Analysis: | 12/25/06 06:38 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



OMC 2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP**

**Lab ID#: 0612226AR1-07A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | 1122512 | Date of Collection: 12/11/06 |
|---|---|---|
| Dil. Factor: | 520 | Date of Analysis: 12/25/06 07:21 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 260 | Not Detected | 660 | Not Detected |
| Bromomethane | 260 | Not Detected | 1000 | Not Detected |
| Chloroethane | 260 | Not Detected | 690 | Not Detected |
| 1,1-Dichloroethene | 260 | 430 | 1000 | 1700 |
| Methylene Chloride | 260 | 18000 | 900 | 63000 |
| 1,1-Dichloroethane | 260 | 2700 | 1000 | 11000 |
| cis-1,2-Dichloroethene | 260 | 1300 | 1000 | 5100 |
| Chloroform | 260 | 1800 | 1300 | 8600 |
| 1,1,1-Trichloroethane | 260 | 21000 | 1400 | 120000 |
| Carbon Tetrachloride | 260 | Not Detected | 1600 | Not Detected |
| Benzene | 260 | 12000 | 830 | 38000 |
| 1,2-Dichloroethane | 260 | 650 | 1000 | 2600 |
| Trichloroethene | 260 | 12000 | 1400 | 67000 |
| 1,2-Dichloropropane | 260 | 190 J | 1200 | 890 J |
| cis-1,3-Dichloropropene | 260 | Not Detected | 1200 | Not Detected |
| Toluene | 260 | 79000 | 980 | 300000 |
| trans-1,3-Dichloropropene | 260 | Not Detected | 1200 | Not Detected |
| 1,1,2-Trichloroethane | 260 | 120 J | 1400 | 640 J |
| Tetrachloroethene | 260 | 16000 | 1800 | 110000 |
| Chlorobenzene | 260 | Not Detected | 1200 | Not Detected |
| Ethyl Benzene | 260 | 9100 | 1100 | 40000 |
| m,p-Xylene | 260 | 38000 | 1100 | 160000 |
| o-Xylene | 260 | 14000 | 1100 | 59000 |
| Styrene | 260 | Not Detected | 1100 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 260 | Not Detected | 1800 | Not Detected |
| Bromodichloromethane | 260 | Not Detected | 1700 | Not Detected |
| Dibromochloromethane | 260 | Not Detected | 2200 | Not Detected |
| Chloromethane | 1000 | Not Detected | 2100 | Not Detected |
| Acetone | 1000 | 8400 | 2500 | 20000 |
| Carbon Disulfide | 1000 | 140 J | 3200 | 430 J |
| trans-1,2-Dichloroethene | 1000 | Not Detected | 4100 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1000 | 2000 | 3100 | 6000 |
| 4-Methyl-2-pentanone | 1000 | 2700 | 4300 | 11000 |
| 2-Hexanone | 1000 | Not Detected | 4300 | Not Detected |
| Bromoform | 1000 | Not Detected | 11000 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP**

**Lab ID#: 0612226AR1-07A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 1122512 | Date of Collection: | 12/14/06 |
| Dil. Factor: | 5.20 | Date of Analysis: | 12/25/06 07:21 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

CMS 2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP Duplicate**

**Lab ID#: 0612226AR1-07AA**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: 1122513 | Date of Collection: 12/11/06 |
|---|---|
| Dil. Factor: 520 | Date of Analysis: 12/25/06 08:02 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 260 | Not Detected | 660 | Not Detected |
| Bromomethane | 260 | Not Detected | 1000 | Not Detected |
| Chloroethane | 260 | Not Detected | 690 | Not Detected |
| 1,1-Dichloroethene | 260 | 500 | 1000 | 2000 |
| Methylene Chloride | 260 | 18000 | 900 | 61000 |
| 1,1-Dichloroethane | 260 | 2600 | 1000 | 11000 |
| cis-1,2-Dichloroethene | 260 | 1200 | 1000 | 4900 |
| Chloroform | 260 | 1700 | 1300 | 8400 |
| 1,1,1-Trichloroethane | 260 | 20000 | 1400 | 110000 |
| Carbon Tetrachloride | 260 | Not Detected | 1600 | Not Detected |
| Benzene | 260 | 12000 | 830 | 38000 |
| 1,2-Dichloroethane | 260 | 600 | 1000 | 2400 |
| Trichloroethene | 260 | 12000 | 1400 | 66000 |
| 1,2-Dichloropropane | 260 | 180 J 15 | 1200 | 810 J |
| cis-1,3-Dichloropropene | 260 | Not Detected 12 | 1200 | Not Detected |
| Toluene | 260 | 78000 | 980 | 290000 |
| trans-1,3-Dichloropropene | 260 | Not Detected | 1200 | Not Detected |
| 1,1,2-Trichloroethane | 260 | 120 J 15 | 1400 | 680 J |
| Tetrachloroethene | 260 | 15000 | 1800 | 100000 |
| Chlorobenzene | 260 | Not Detected | 1200 | Not Detected |
| Ethyl Benzene | 260 | 8900 | 1100 | 39000 |
| m,p-Xylene | 260 | 37000 | 1100 | 160000 |
| o-Xylene | 260 | 13000 | 1100 | 58000 |
| Styrene | 260 | Not Detected | 1100 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 260 | Not Detected | 1800 | Not Detected |
| Bromodichloromethane | 260 | Not Detected | 1700 | Not Detected |
| Dibromochloromethane | 260 | Not Detected | 2200 | Not Detected |
| Chloromethane | 1000 | Not Detected | 2100 | Not Detected |
| Acetone | 1000 | 8000 | 2500 | 19000 |
| Carbon Disulfide | 1000 | 130 J 15 | 3200 | 420 J |
| trans-1,2-Dichloroethene | 1000 | Not Detected | 4100 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1000 | 1700 | 3100 | 5100 |
| 4-Methyl-2-pentanone | 1000 | 2800 | 4300 | 11000 |
| 2-Hexanone | 1000 | Not Detected | 4300 | Not Detected |
| Bromoform | 1000 | Not Detected | 11000 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

CMS 2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP Duplicate**

**Lab ID#: 0612226AR1-07AA**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | 112513 | Date of Collection: | 12/11/06 |
| Dil. Factor: | 520 | Date of Analysis: | 12/25/06 08:02 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |

CMS 2/16/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 8 TOX 2 EFF**

**Lab ID#: 0612226AR1-08A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | 1122210 | Date of Collection: | 12/11/06 |
|---|---|---|---|
| Dil Factor: | 17.9 | Date of Analysis: | 12/22/06 03:57 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 9.0 | 40 | 23 | 100 |
| Bromomethane | 9.0 | Not Detected | 35 | Not Detected |
| Chloroethane | 9.0 | Not Detected /R | 24 | Not Detected |
| 1,1-Dichloroethene | 9.0 | 190 | 35 | 750 |
| Methylene Chloride | 9.0 | 870 | 31 | 3000 |
| 1,1-Dichloroethane | 9.0 | 110 | 36 | 450 |
| cis-1,2-Dichloroethene | 9.0 | 81 | 35 | 320 |
| Chloroform | 9.0 | 77 | 44 | 380 |
| 1,1,1-Trichloroethane | 9.0 | 720 | 49 | 3900 |
| Carbon Tetrachloride | 9.0 | Not Detected | 56 | Not Detected |
| Benzene | 9.0 | 820 | 28 | 2600 |
| 1,2-Dichloroethane | 9.0 | 25 | 36 | 100 |
| Trichloroethene | 9.0 | 550 | 48 | 3000 |
| 1,2-Dichloropropane | 9.0 | 7.2 J /5 | 41 | 34 J |
| cis-1,3-Dichloropropene | 9.0 | Not Detected | 41 | Not Detected |
| Toluene | 9.0 | 2900 | 34 | 11000 |
| trans-1,3-Dichloropropene | 9.0 | Not Detected | 41 | Not Detected |
| 1,1,2-Trichloroethane | 9.0 | 5.4 J /5 | 49 | 29 J |
| Tetrachloroethene | 9.0 | 780 | 61 | 5300 |
| Chlorobenzene | 9.0 | 3.5 J /5 | 41 | 16 J |
| Ethyl Benzene | 9.0 | 270 | 39 | 1200 |
| m,p-Xylene | 9.0 | 1100 | 39 | 4700 |
| o-Xylene | 9.0 | 400 | 39 | 1700 |
| Styrene | 9.0 | 150 | 38 | 650 |
| 1,1,2,2-Tetrachloroethane | 9.0 | 2.8 J /5 | 61 | 19 J |
| Bromodichloromethane | 9.0 | Not Detected | 60 | Not Detected |
| Dibromochloromethane | 9.0 | Not Detected | 76 | Not Detected |
| Chloromethane | 36 | 18 J /5 | 74 | 38 J |
| Acetone | 36 | 770 | 85 | 1800 |
| Carbon Disulfide | 36 | 9.8 J /5 | 110 | 31 J |
| trans-1,2-Dichloroethene | 36 | 12 J /5 | 140 | 46 J |
| 2-Butanone (Methyl Ethyl Ketone) | 36 | 500 | 100 | 1500 |
| 4-Methyl-2-pentanone | 36 | 120 | 150 | 500 |
| 2-Hexanone | 36 | 5.7 J /5 | 150 | 23 J |
| Bromoform | 36 | Not Detected | 370 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Canister**

CMS 2/16/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 8 TOX 2 EFF**

**Lab ID#: 0612226AR1-08A**

**MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN**

| File Name: | 112210 | Date of Collection: 12/11/06 |
|---|---|---|
| Dil. Factor: | 17.8 | Date of Analysis: 12/22/06 03:57 PM |

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 90 | 70-130 |

CWS 2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE**

**Lab ID#: 0612226B-01A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | p121410 | Date of Collection: 12/11/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 12/14/06 07:44 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | 5.2 |
| bis(2-Chloroethyl) Ether | 1.0 | 6.2 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 2.5 |
| 1,4-Dichlorobenzene | 1.0 | 7.9 |
| 1,2-Dichlorobenzene | 1.0 | 65 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | 3.3 J |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 42 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 3.6 |
| Naphthalene | 1.0 | 76 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 4.8 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 16 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |



2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE**

**Lab ID#: 0612226B-01A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: p121410 | | Date of Collection: 12/11/06 |
| Dil. Factor: 1.00 | | Date of Analysis: 12/14/06 02:44 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 3.5 J |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.
Q = Exceeds Quality Control limits.
**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 10 Q | 50-150 |
| Phenol-d5 | 100 | 50-150 |
| Nitrobenzene-d5 | 84 | 50-150 |
| 2,4,6-Tribromophenol | 75 | 50-150 |
| Fluorene-d10 | 78 | 60-120 |
| Pyrene-d10 | 83 | 60-120 |



DS 2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE Duplicate**

**Lab ID#: 0612226B-01AA**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: p121411 | | Date of Collection: 12/11/06 |
| Dil. Factor: 1.00 | | Date of Analysis: 12/14/06 03:14PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | 5.4 |
| bis(2-Chloroethyl) Ether | 1.0 | 6.7 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 2.6 |
| 1,4-Dichlorobenzene | 1.0 | 8.4 |
| 1,2-Dichlorobenzene | 1.0 | 69 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | 3.5 J |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 43 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 3.4 |
| Naphthalene | 1.0 | 77 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 5.1 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 17 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1 OFFSITE ISVE Duplicate**

**Lab ID#: 0612226B-01AA**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | p121411 | Date of Collection: 12/11/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 12/14/06 03:14 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 3.7 J 15 |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.
Q = Exceeds Quality Control limits.
**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 10 Q | 50-150 |
| Phenol-d5 | 106 | 50-150 |
| Nitrobenzene-d5 | 86 | 50-150 |
| 2,4,6-Tribromophenol | 80 | 50-150 |
| Fluorene-d10 | 83 | 60-120 |
| Pyrene-d10 | 86 | 60-120 |

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 2 SBPA ISVE**

**Lab ID#: 0612226B-02A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: p121412 | | Date of Collection: 12/11/06 |
| DIL Factor: 1.00 | | Date of Analysis: 12/14/06 03:44 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 3.2 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 3.4 |
| 1,4-Dichlorobenzene | 1.0 | 6.9 |
| 1,2-Dichlorobenzene | 1.0 | 28 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 3.0 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 19 |
| Naphthalene | 1.0 | 26 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 13 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 16 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 2 SBPA ISVE**

**Lab ID#: 0612226B-02A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| File Name: | p121417 | Date of Collection: 12/11/06 |
|---|---|---|
| Dil. Factor: | 1.00 | Date of Analysis: 12/14/06 03:44 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 1.8 J |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.
Q = Exceeds Quality Control limits.
**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 39 Q | 50-150 |
| Phenol-d5 | 100 | 50-150 |
| Nitrobenzene-d5 | 89 | 50-150 |
| 2,4,6-Tribromophenol | 84 | 50-150 |
| Fluorene-d10 | 90 | 60-120 |
| Pyrene-d10 | 99 | 60-120 |



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 3 TOX 1 INF**

**Lab ID#: 0612226B-03A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: p121443 | | Date of Collection: 12/1/06 |
| Dil. Factor: 1.00 | | Date of Analysis: 12/14/06 04:14 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 2.6 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 2.8 |
| 1,4-Dichlorobenzene | 1.0 | 5.8 |
| 1,2-Dichlorobenzene | 1.0 | 23 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 2.4 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 13 |
| Naphthalene | 1.0 | 17 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 10 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 10 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 3 TOX 1 INF**

**Lab ID#: 0612226B-03A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | p121413 | Date of Collection: 12/11/06 |
| Dil Factor: | 1.00 | Date of Analysis: 12/14/06 04:14 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | Not Detected |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

Q = Exceeds Quality Control limits.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 39 Q | 50-150 |
| Phenol-d5 | 96 | 50-150 |
| Nitrobenzene-d5 | 92 | 50-150 |
| 2,4,6-Tribromophenol | 80 | 50-150 |
| Fluorene-d10 | 88 | 60-120 |
| Pyrene-d10 | 98 | 60-120 |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 4 TOX 1 INF DUP**

**Lab ID#: 0612226B-04A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: p121414 | | Date of Collection: 12/11/06 |
| Dil. Factor: 1.00 | | Date of Analysis: 12/14/06 04:44 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 2.7 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 3.0 |
| 1,4-Dichlorobenzene | 1.0 | 6.0 |
| 1,2-Dichlorobenzene | 1.0 | 25 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 2.4 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 15 |
| Naphthalene | 1.0 | 19 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 11 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 11 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 4 TOX 1 INF DUP**

**Lab ID#: 0612226B-04A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | p121414 | Date of Collection: 12/11/06 |
| Dil. Factor: | 1.0/0 | Date of Analysis: 12/14/06 04:44 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | Not Detected |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

Q = Exceeds Quality Control limits.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 43 Q | 50-150 |
| Phenol-d5 | 102 | 50-150 |
| Nitrobenzene-d5 | 94 | 50-150 |
| 2,4,6-Tribromophenol | 90 | 50-150 |
| Fluorene-d10 | 95 | 60-120 |
| Pyrene-d10 | 102 | 60-120 |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 5 TOX 1 EFF**

**Lab ID#: 0612226B-05A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | p121415 | Date of Collection: 12/11/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 12/14/06 05:14 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | Not Detected |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | Not Detected |
| 1,4-Dichlorobenzene | 1.0 | Not Detected |
| 1,2-Dichlorobenzene | 1.0 | Not Detected |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | Not Detected |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | Not Detected |
| Naphthalene | 1.0 | Not Detected |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | Not Detected |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | Not Detected |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 5 TOX 1 EFF**

**Lab ID#: 0612226B-05A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | p121415 | Date of Collection: 12/11/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 12/14/06 05:14 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | Not Detected |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 75 | 50-150 |
| Phenol-d5 | 84 | 50-150 |
| Nitrobenzene-d5 | 79 | 50-150 |
| 2,4,6-Tribromophenol | 78 | 50-150 |
| Fluorene-d10 | 82 | 60-120 |
| Pyrene-d10 | 85 | 60-120 |



OMS 2/6/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 6 TOX 2 INF**

**Lab ID#: 0612226B-06A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | n121406 | Date of Collection: 12/1/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 12/14/06 05:44 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | 3.1 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 1.6 |
| 1,4-Dichlorobenzene | 1.0 | 5.1 |
| 1,2-Dichlorobenzene | 1.0 | 39 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | 2.7 |
| Isophorone | 1.0 | 11 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 1.1 |
| Naphthalene | 1.0 | 22 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 2.1 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 4.1 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 6 TOX 2 INF**

**Lab ID#: 0612226B-06A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | p121416 | Date of Collection: 12/11/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 12/14/06 05:44 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 1.3 J |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.
Q = Exceeds Quality Control limits.
**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 13 Q | 50-150 |
| Phenol-d5 | 109 | 50-150 |
| Nitrobenzene-d5 | 93 | 50-150 |
| 2,4,6-Tribromophenol | 88 | 50-150 |
| Fluorene-d10 | 92 | 60-120 |
| Pyrene-d10 | 102 | 60-120 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP**

**Lab ID#: 0612226B-07A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | p121417 | Date of Collection: | 12/11/06 |
| Dil. Factor: | 1.00 | Date of Analysis: | 12/14/06 06:14 PM |
| | | Date of Extraction: | 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Phenol | 5.0 | 3.2 J |
| bis(2-Chloroethyl) Ether | 1.0 | 6.1 |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | 3.0 |
| 1,4-Dichlorobenzene | 1.0 | 9.1 |
| 1,2-Dichlorobenzene | 1.0 | 72 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | 22 |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | 2.4 |
| Naphthalene | 1.0 | 44 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | 4.4 |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 8.0 |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 7 TOX 2 INF DUP**

**Lab ID#: 0612226B-07A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: p121417 | | Date of Collection: 12/11/06 |
| Dil Factor: 1.00 | | Date of Analysis: 12/14/06 06:14 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 1.4 J 15 |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.
Q = Exceeds Quality Control limits.
**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 17 Q | 50-150 |
| Phenol-d5 | 114 | 50-150 |
| Nitrobenzene-d5 | 107 | 50-150 |
| 2,4,6-Tribromophenol | 33 | 50-150 |
| Fluorene-d10 | 91 | 60-120 |
| Pyrene-d10 | 101 | 60-120 |

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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 8 TOX 2 EFF**

**Lab ID#: 0612226B-08A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| | | |
|---|---|---|
| File Name: | p121418 | Date of Collection: 12/11/06 |
| Dil. Factor: | 1.00 | Date of Analysis: 12/14/06 06:44 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| Pheno | 5.0 | Not Detected |
| bis(2-Chloroethyl) Ether | 1.0 | Not Detected |
| 2-Chlorophenol | 5.0 | Not Detected |
| 1,3-Dichlorobenzene | 1.0 | Not Detected |
| 1,4-Dichlorobenzene | 1.0 | Not Detected |
| 1,2-Dichlorobenzene | 1.0 | 3.2 |
| 2-Methylphenol (o-Cresol) | 5.0 | Not Detected |
| N-Nitroso-di-n-propylamine | 1.0 | Not Detected |
| 4-Methylphenol/3-Methylphenol | 5.0 | Not Detected |
| Hexachloroethane | 1.0 | Not Detected |
| Nitrobenzene | 1.0 | Not Detected |
| Isophorone | 1.0 | Not Detected |
| 2-Nitrophenol | 5.0 | Not Detected |
| 2,4-Dimethylphenol | 5.0 | Not Detected |
| bis(2-Chloroethoxy) Methane | 1.0 | Not Detected |
| 2,4-Dichlorophenol | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | Not Detected |
| Naphthalene | 1.0 | 4.6 |
| 4-Chloroaniline | 10 | Not Detected |
| Hexachlorobutadiene | 1.0 | Not Detected |
| 4-Chloro-3-methylphenol | 5.0 | Not Detected |
| 2-Methylnaphthalene | 1.0 | 0.65 J |
| Hexachlorocyclopentadiene | 20 | Not Detected |
| 2,4,6-Trichlorophenol | 5.0 | Not Detected |
| 2,4,5-Trichlorophenol | 5.0 | Not Detected |
| 2-Chloronaphthalene | 1.0 | Not Detected |
| 2-Nitroaniline | 10 | Not Detected |
| Dimethylphthalate | 5.0 | Not Detected |
| Acenaphthylene | 1.0 | Not Detected |
| 2,6-Dinitrotoluene | 5.0 | Not Detected |
| 3-Nitroaniline | 10 | Not Detected |
| Acenaphthene | 1.0 | Not Detected |
| 2,4-Dinitrophenol | 20 | Not Detected |
| 4-Nitrophenol | 20 | Not Detected |
| 2,4-Dinitrotoluene | 5.0 | Not Detected |
| Dibenzofuran | 1.0 | Not Detected |
| Diethylphthalate | 5.0 | Not Detected |
| Fluorene | 1.0 | Not Detected |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 8 TOX 2 EFF**

**Lab ID#: 0612226B-08A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

| File Name: | p121418 | Date of Collection: 12/11/06 |
|---|---|---|
| Dil. Factor: | 1.00 | Date of Analysis: 12/14/06 08:44 PM |
| | | Date of Extraction: 12/12/06 |

| Compound | Rpt. Limit (ug) | Amount (ug) |
|---|---|---|
| 4-Chlorophenyl-phenyl Ether | 1.0 | Not Detected |
| 4-Nitroaniline | 10 | Not Detected |
| 4,6-Dinitro-2-methylphenol | 10 | Not Detected |
| N-Nitrosodiphenylamine | 10 | Not Detected |
| 4-Bromophenyl-phenyl Ether | 1.0 | Not Detected |
| Hexachlorobenzene | 1.0 | Not Detected |
| Pentachlorophenol | 20 | Not Detected |
| Phenanthrene | 1.0 | Not Detected |
| Anthracene | 1.0 | Not Detected |
| di-n-Butylphthalate | 5.0 | Not Detected |
| Fluoranthene | 1.0 | Not Detected |
| Pyrene | 1.0 | Not Detected |
| Butylbenzylphthalate | 5.0 | Not Detected |
| 3,3'-Dichlorobenzidine | 20 | Not Detected |
| Chrysene | 1.0 | Not Detected |
| Benzo(a)anthracene | 1.0 | Not Detected |
| bis(2-Ethylhexyl)phthalate | 5.0 | 7.8 |
| Di-n-Octylphthalate | 5.0 | Not Detected |
| Benzo(b)fluoranthene | 1.0 | Not Detected |
| Benzo(k)fluoranthene | 1.0 | Not Detected |
| Benzo(a)pyrene | 1.0 | Not Detected |
| Indeno(1,2,3-c,d)pyrene | 1.0 | Not Detected |
| Dibenz(a,h)anthracene | 1.0 | Not Detected |
| Benzo(g,h,i)perylene | 1.0 | Not Detected |

J = Estimated value.

**Container Type: XAD Tube**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 2-Fluorophenol | 84 | 50-150 |
| Phenol-d5 | 98 | 50-150 |
| Nitrobenzene-d5 | 91 | 50-150 |
| 2,4,6-Tribromophenol | 88 | 50-150 |
| Fluorene-d10 | 88 | 60-120 |
| Pyrene-d10 | 98 | 60-120 |



CMS 2/1/07

**@ AIR TOXICS LTD.**
AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Sample Transportation Notice**
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and International laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

## CHAIN-OF-CUSTODY RECORD

Contact Person: CHRIS DALY
Company: MWH Email:
Address: 175 W. JACKSON City: CHICAGO State: IL Zip: 60604
Phone: 312 831 3415 Fax: 312 831-3021
Collected by: (Signature) [signature]

**Project Info:**
P.O. #:
Project #:
Project Name: ACS

**Turn Around Time:**
☐ Normal
☐ Rush
specify

Lab Use Only
Pressurized by: BJ
Date: 12/17/06
Pressurization Gas: $N_2$ He

| Lab I.D. | Field Sample I.D. (Location) | Can# | Date | Time | Analyses Requested | Canister Pressure/Vacuum Initial | Final | Receipt | Final (psi) |
|---|---|---|---|---|---|---|---|---|---|
| 01A | 1 OFFSITE ISVE | 12705 | 12-11-06 | 1320 | TO13/TO14 SUMA CAN + SORB TUBE | -30 | 0 | 0.0"Hg | 5.0psi |
| 02A | 2 SBPA ISVE | 33902 | | 1321 | | -30 | 0 | 0.0"Hg | |
| 03A | 3 TOX 1 INF | 33797 | | 1335 | | -30 | 0 | 0.0"Hg | |
| 04A | 4 TOX 1 INF DUP | 24228 | | 1345 | | -30 | 0 | 0.0"Hg | |
| 05A | 5 TOX 1 EFF | 911 | | 1400 | | -30 | 0 | 0.0"Hg | |
| 06A | 6 TOX 2 INF | 34323 | | 1430 | | -30 | 0 | 0.4psi | |
| 07A | 7 TOX 2 INF DUP | 34010 | | 1450 | | -30 | 0 | 0.4psi | |
| 08A | 8 TOX 2 EFF | 31144 | 12-11-06 | 1425 | TO13/TO14 SUMA CAN + SORB TUBE | -30 | 0 | 0.0"Hg | |
| | | | | | | ~~-30~~ | | | |

| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time | Notes: |
|---|---|---|---|---|
| [signature] | 12.11.06 1520 | T. LaFlash ATL | 12/12/06 0900 | |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time | |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | Date/Time | |

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Customer Seals Intact? | Work Order # |
|---|---|---|---|---|---|---|
| | Fed Ex | 8550 4759 0899 | NA | good | Yes No None | 0612226A |

Form 1293 rev.10

# APPENDIX C

# ANNUAL SEDIMENT SAMPLE ANALYTICAL DATA

**December 11, 2006**

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TPSS121106

Lab Name: COMPUCHEM Contract: 8081A-8082

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 11759

Matrix: (soil/water) SOIL Lab Sample ID: 1175901

Sample wt/vol: 15.0 (g/mL) G Lab File ID: _____

% Moisture: 66 decanted: (Y/N) N Date Received: 12/12/06

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/18/06

Concentrated Extract Volume: 2500(uL) Date Analyzed: 12/22/06

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 309-00-2 | Aldrin | 5.0 | U |
| 319-85-7 | beta-BHC | 3.7 | P |
| 319-84-6 | alpha-BHC | 5.0 | U |
| 319-86-8 | delta-BHC | 5.0 | U |
| 58-89-9 | gamma-BHC (Lindane) | 5.0 | U |
| 72-54-8 | 4,4'-DDD | 9.7 | U |
| 72-55-9 | 4,4'-DDE | 9.7 | U |
| 50-29-3 | 4,4'-DDT | 11 | P |
| 60-57-1 | Dieldrin | 9.7 | U |
| 959-98-8 | Endosulfan I | 5.0 | U |
| 33213-65-9 | Endosulfan II | 9.7 | U |
| 1031-07-8 | Endosulfan sulfate | 4.8 | JP |
| 72-20-8 | Endrin | 9.7 | U |
| 7421-93-4 | Endrin Aldehyde | 9.7 | U |
| 76-44-8 | Heptachlor | 5.0 | U |
| 1024-57-3 | Heptachlor Epoxide | 5.0 | U |
| 72-43-5 | Methoxychlor | 50 | U |
| 8001-35-2 | Toxaphene | 240 | U |
| 12674-11-2 | Aroclor-1016 | 71 | U |
| 11104-28-2 | Aroclor-1221 | 100 | U |
| 11141-16-5 | Aroclor-1232 | 50 | U |
| 53469-21-9 | Aroclor-1242 | 50 | U |
| 12672-29-6 | Aroclor-1248 | 300 | |
| 11097-69-1 | Aroclor-1254 | 50 | U |
| 11096-82-5 | Aroclor-1260 | 50 | U |
| 53494-70-5 | Endrin Ketone | 9.7 | U |
| 5103-74-2 | gamma-Chlordane | 5.0 | U |
| 5103-71-9 | alpha-Chlordane | 5.0 | U |

FORM I PEST

M 12/26/07

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TPSSDUP

Lab Name: COMPUCHEM Contract: 8081A-8082

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 11759

Matrix: (soil/water) SOIL Lab Sample ID: 1175902

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 55 decanted: (Y/N) N Date Received: 12/12/06

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/18/06

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/22/06

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 309-00-2 | Aldrin | 2.7 | JP |
| 319-85-7 | beta-BHC | 1.9 | U |
| 319-84-6 | alpha-BHC | 3.8 | U |
| 319-86-8 | delta-BHC | 3.8 | U |
| 58-89-9 | gamma-BHC (Lindane) | 3.8 | U |
| 72-54-8 | 4,4'-DDD | 7.3 | U |
| 72-55-9 | 4,4'-DDE | 7.3 | U |
| 50-29-3 | 4,4'-DDT | 7.3 | U |
| 60-57-1 | Dieldrin | 7.3 | U |
| 959-98-8 | Endosulfan I | 3.8 | U |
| 33213-65-9 | Endosulfan II | 6.2 | JP |
| 1031-07-8 | Endosulfan sulfate | 5.6 | JP |
| 72-20-8 | Endrin | 7.3 | U |
| 7421-93-4 | Endrin Aldehyde | 3.2 | J |
| 76-44-8 | Heptachlor | 3.8 | U |
| 1024-57-3 | Heptachlor Epoxide | 18 | P |
| 72-43-5 | Methoxychlor | 38 | U |
| 8001-35-2 | Toxaphene | 180 | U |
| 12674-11-2 | Aroclor-1016 | 53 | U |
| 11104-28-2 | Aroclor-1221 | 76 | U |
| 11141-16-5 | Aroclor-1232 | 38 | U |
| 53469-21-9 | Aroclor-1242 | 38 | U |
| 12672-29-6 | Aroclor-1248 | 450 | |
| 11097-69-1 | Aroclor-1254 | 38 | U |
| 11096-82-5 | Aroclor-1260 | 38 | U |
| 53494-70-5 | Endrin Ketone | 7.3 | U |
| 5103-74-2 | gamma-Chlordane | 11 | P |
| 5103-71-9 | alpha-Chlordane | 3.8 | U |

FORM I PEST

M 1/5/07