



**2004 Annual
Performance
Monitoring Report
Essex/Hope Site
Jamestown, New York**

July 2005 - Final

***Prepared for:
Essex Specialty Products, Inc.
Auburn Hills, Michigan***

URS Project No. 41567474



2004 ANNUAL PERFORMANCE MONITORING REPORT

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Jamestown, New York**

Prepared for:
**Essex Specialty Products, Inc.
Auburn Hills, Michigan**

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1.0 Introduction

On behalf of Essex Specialty Products, Inc. (ESP), URS has prepared this Annual Performance Monitoring Report for the Essex/Hope Site in Jamestown, New York (NO.9-07-015) as required by the Performance Monitoring Plan (PMP) prepared by Radian International in June 1997, and revised by URS Corp. in October, 2003. This report summarizes the operations and performance monitoring of the site remedial systems for the calendar year of 2004. A site location map is provided as **Figure 1**.

Section 2.0 of the report summarizes groundwater flow conditions under pumping influence, Section 3.0 discusses groundwater quality, and Section 4.0 details soil vapor extraction (SVE)/air sparging system performance.

1.1 Remedial Systems Overview

There are three separate areas that are the focus of remedial efforts including the North Parking Lot (NPL) Area, the former Underground Storage Tanks (UST) Area, and the former Aboveground Storage Tank/Underground Storage Tank (AST/UST) Area. These areas and the site monitoring points are illustrated on **Figure 2**.

The remedial systems at the Essex/Hope Site were designed and constructed to address impacted groundwater and soils identified at the three areas of the site (NPL, AST/UST, and UST Areas). Remediation of groundwater and soils at the Essex/Hope Site is performed by a combination of soil vapor extraction, air sparging, and a groundwater extraction and treatment systems. The original remedial action design and implementation was based upon the March 1994 Record of Decision (ROD) issued by the New York State Department of Environmental Conservation (NYSDEC) and included:

- A groundwater remediation system consisting of an extraction well network of five (5) shallow and two (2) deep recovery wells and activated carbon pre-treatment with onsite discharge to the local POTW;
- Soil remediation in the AST/UST and UST Areas by soil vapor extraction (SVE) for volatile organic constituents occurring above the shallow water table.
- Soil excavation in the NPL Area, conducted in September and October of 1996, to remove impacted soils in the former sump and surrounding areas.
- Air sparging in the shallow water-bearing zone of the NPL, UST and AST/UST Areas to supplement the treatment of impacted groundwater via enhanced biodegradation and volatilization of organic constituents. A soil vapor extraction system was added to the NPL Area to collect volatile organic constituents (VOCs) volatilized from the shallow groundwater in this area.
- The remedial areas were capped with either asphalt or concrete to enhance surface water runoff and minimize infiltration.

-
- A network of monitoring wells across the site (as designated in the Performance Monitoring Plan) is used to measure the effectiveness of the groundwater remedial activities.

1.2 Supplemental Remedial Activities

Voluntary supplemental remedial activities were initiated in 2000, with the approval of the NYSDEC, to refine the understanding of the extent of site related subsurface constituents and to evaluate potential remedial alternatives to enhance remedial effectiveness at the site. Evaluation of those studies continued during 2001 and 2002, and measures to remove residual VOCs in the UST Area were implemented between 2001 and 2003. The results of the additional studies and UST Area work are reported under separate cover. A summary of the additional activities performed at the Site after the initial remedial actions is as follows:

- A pilot scale zero-valent iron permeable reactive barrier (PRB) was injected around recovery well RW-2D and within the lower semi-confined water-bearing zone beneath Building 5 in July 2000. The pilot PRB is designed to evaluate the effectiveness of this technology to reduce and control the migration of dissolved VOC constituents from the site. As part of this evaluation, additional groundwater piezometers were installed in the upper unconfined water-bearing zone and lower semi-confined water-bearing zone for performance monitoring of the pilot PRB. Collection of pilot test data was completed in July 2001, and further evaluation based upon site performance monitoring data was completed in December 2002. Data concerning this pilot test was submitted to the NYSDEC as the Interim Results, PRB Pilot Results for First Four Sample Rounds (URS, February 2001). A final pilot test report detailing results through December 2002 was submitted to NYSDEC in July 2003.
- The former underground storage tanks (USTs) in the UST Area were uncovered in August 2000 and evaluated as a potential ongoing source of VOCs in this area. Additional test borings and groundwater piezometers were installed within the upper shallow semi-confined water-bearing zones in this area to evaluate groundwater and soil chemical conditions, and to refine groundwater flow direction and constituent migration. Results of these activities were reported in the Plant #5 East Area and UST Area Investigations Report (URS, March 2001).
- As part of the UST Area investigation, the area east of Building 5 was evaluated at the request of the NYSDEC to determine the source of vinyl chloride within the lower semi-confined water-bearing zone at Monitoring Well MW-19D, located on the Site's eastern property line. A network of test borings and deep piezometers were installed within the UST Area and on the offsite property to the east for evaluation of chemical conditions within the soil and groundwater. Results of these activities were reported in the Plant #5 East Area and UST Area Investigations Report (URS, March 2001).
- The former USTs (Tanks 1 through 4) in the UST Area were uncovered during 2001 and cleaned-out to remove residual liquids from the tanks. Openings were cut in each tank and the fluid contents removed, and each tank was rinsed with potable water. Following rinsing, the tanks were treated using the Biox® Process to remove residual organic constituents in the tanks by chemical oxidation and biodegradation. Results of the tank cleaning were submitted to the NYSDEC in the Tank Closure Work Plan (URS, September 2001).

- Based upon the results of the Biox solution treatment of the USTs, where VOCs were not reduced below the "clean closure" standard of 5 µg/L within Tanks T-1, T-3 and T-4 as required by the NYSDEC, a UST removal program was initiated by Essex Specialty Products. All five (5) of the former USTs in the UST Area, and over 1000 tons of soil were removed between the period of November 2002 and January 2003. Results of this activity have been submitted to the NYSDEC in the UST Removal Interim Report (URS, February 2003).
- A supplemental investigation was completed in October 2003 to further define conditions in the UST Area and the vinyl chloride groundwater plume on the east side of the former Plant No. 5 building. This investigation was completed to provide data to address potential additional measures for the site cleanup. These potential measures focus on *insitu* methods especially those that are able to treat both the UST Area contaminants (toluene, ethylbenzene, xylenes) and the vinyl chloride plume. Results of the investigation are reported under separate cover. The new monitoring wells installed as part of these investigations, MW's: 21D, 22D, 23S, 23D and 24S, are shown on Figure 2. Of these wells, MW-21D and MW-22D were added to the Performance Monitoring Plan (PMP) as directed by the NYSDEC. The results of this investigation has been submitted to the NYSDEC in the UST Area and Groundwater Vinyl Chloride Investigations Report (URS, June 2004).

1.3 System Modifications

Modifications to the original remedial systems configuration since startup in 1997 have included the following:

- Groundwater extraction from Recovery Well RW-1D, screened across the deep water-bearing zone in the NPL Area, was discontinued in June 1999 with the approval of the NYSDEC. As reported in the 1999 Annual Performance Monitoring Report (Radian International, April 1999), a pumping evaluation completed in the first half of 1999 revealed that vertical leakage was occurring from the shallow water-bearing zone to the deep water-bearing zone due to pumping from the deep zone. Based upon this information, and the fact that the majority of the groundwater constituents are recovered from RW-2D, NYSDEC recommended that RW-1D be shut down as documented in the June 17, 1999 correspondence from the NYSDEC to Radian International.
- The air sparging system in the NPL Area was shut down in July 2000, with the approval of the NYSDEC, to prevent the oxidation of the newly installed Pilot Permeable Reactive Barrier (PRB) and zero-valent iron injections in that area. The soil vapor extraction system has continued to be operated in this area as needed to collect potential gases produced by subsurface reactions associated with the Pilot PRB and zero-valent iron injections in that area.
- Air sparging in the UST Area was discontinued in October 2000 after mechanical failure of the air sparge pump. Since the combined soil vapor extraction/air sparging system had reached its practical remedial effectiveness, Essex Specialty Products initiated activities to evaluate conditions in this area in 2000 and implement supplemental remedial activities to replace the original system, with the approval of the NYSDEC. These supplemental remedial activities include the *insitu* cleaning of the former USTs completed in December 2001 and February 2003, and the UST removals completed between November 2002 and January 2003.

- The soil vapor extraction system and groundwater recovery system (Recovery Wells RW-4S and RW-5S) in the UST Area were shut down in November 2002 for the UST removal activities. Excavation work resulted in complete removal of the electrical system for the UST Area, Recovery Well RW-4S, and underground piping to the soil vapor extraction/air sparging wells and existing Recovery Well RW-5S. These systems are currently shut down. There are no plans at this time to redesign or reconstruct the UST Area remediation system.

1.4 Performance Criteria

The performance criteria to evaluate remediation effectiveness are the Remedial Action Objectives (RAOs) included as Appendix A in the March 1994 Record of Decision (ROD) for the site. **Table 1** summarizes the RAOs for the site.

Performance monitoring completed during the 2004 calendar year consisted of monthly groundwater pre-treatment system influent and effluent analysis, semi-annual recovery well groundwater analysis, quarterly SVE system air stream analysis and annual groundwater sampling of the monitoring wells selected as performance monitoring points. No soil sampling was completed during 2004.

2.0 Groundwater Flow Evaluation

This section presents a summary of the 2004 quarterly groundwater flow conditions as well as an annual evaluation of the extraction system. The annual evaluation reviews each extraction well's pumping rates, the amount of pore volume exchanged in each remedial area and groundwater flow conditions over the course of the extraction period.

Water level measurements were obtained periodically during system operation for each quarter of 2004 and are provided in **Appendix A**. Groundwater contour maps representative of pumping conditions during the reporting period are provided as **Figures 3 through 6** for the shallow and deep water-bearing zones.

2.1 Groundwater Extraction System Operation and Maintenance

The groundwater extraction system was operated continuously throughout the reporting period with the exception of system shutdowns and routine maintenance as summarized below:

- All recovery wells were shut down between January 25 and 31, 2004 for repairs to a split discharge line to the sanitary sewer discharge point within the plant.
- Recovery Well RW-3S was offline in January and February 2004 due to a defective pump motor. A new pump was installed on February 21, 2004.
- All recovery wells were offline between March 28 and 30, 2004 due to high water level within the equalization tank. The tank was pumped down and the carbon vessels were backwashed on April 4, 2004 to remedy the problem.
- The treatment system and all wells were offline between June 18 and 20, 2004 for change-out of the carbon treatment system.
- The Treatment system and recovery wells were offline between July 15 and 25, 2004 for re-charge of the carbon treatment system, maintenance of the pumping systems, and re-development of the recovery wells.
- Recovery Well RW-2D and the associated pumping components and discharge piping was acidified using food grade phosphoric acid from July 19 to 22, 2004 to remove ferrous and ferric hydroxides associated with the pilot PRB. The well was re-developed by hydraulic jetting. The well's acidic groundwater discharge was containerized onsite and neutralized using sodium bicarbonate. The treated water was then processed through the onsite groundwater treatment system.
- Recovery Wells RW-1S, -2S and RW-3S were re-developed on July 21 and 22, 2004 by hydraulic jetting

2.2 Annual Groundwater Extraction

Groundwater pumping volumes are provided in **Table 2**. In 2004, 1.5 million gallons of groundwater were extracted and treated by the recovery system. Approximately 1,026,204 gallons of groundwater were extracted from the LFSWBZ and approximately 486,133 gallons of groundwater were extracted from the shallow water-bearing zone. Groundwater extraction from each treatment area is discussed below.

2.2.1 Shallow Water-Bearing Zone Extraction Summary

2.2.1.1 NPL Area

Recovery wells RW-1S and RW-2S extract groundwater from the shallow zone in the NPL Area. A combined total of approximately 456,749 gallons of groundwater was extracted from this zone during 2004. Groundwater extraction rates were variable throughout the year depending upon recharge from precipitation events, and pumping well efficiency.

The highest groundwater yield occurred during the 2nd and 3rd Quarters of 2004 at 166,527 and 143,677 gallons extracted respectively. 49,750 gallons of groundwater was extracted in the 1st Quarter; and during the 4th Quarter, 96,795 gallons of groundwater was recovered. Groundwater extraction was inhibited during the 1st Quarter due to a faulty level control system at RW-2S. The flow rate was reduced from approximately 1.4 gpm in early January to 0.2 gpm in February. The electrical system was inspected and control components replaced on March 26, 2004. Flow rates during the 3rd and 4th Quarters were reduced in RW-1S and RW-2S due to reduced capacity of the water-bearing zone.

The average steady state groundwater extraction from the NPL Area shallow zone by quarter is as follows:

- 1st Quarter: 0.38 gpm
- 2nd Quarter: 1.27 gpm
- 3rd Quarter: 1.08 gpm
- 4th Quarter: 0.73 gpm

2.2.1.2 AST/UST Area

In the AST/UST area, approximately 29,384 gallons of groundwater was extracted from Recovery Well RW-3S during 2004. The highest groundwater recovery occurred during the 1st and 3rd Quarters at 8,078 and 9,140 gallons respectively. 6,306 gallons was recovered during the 2nd Quarter, and 5,860 gallons in the 3rd Quarter. Groundwater extraction was reduced during the 1st Quarter due to a failure of the pump motor at RW-3S. The pump was replaced on February 21, 2004. During the 2nd Quarter, the discharge piping and components were clogged,

reducing the pumping efficiency. As with the NPL Area, the capacity of the water bearing zone was reduced during the 3rd and 4th Quarters, related to reduced precipitation for the area.

The average steady state groundwater extraction from the AST/UST Area shallow zone by quarter is as follows:

- 1st Quarter: 0.062 gpm
- 2nd Quarter: 0.048 gpm
- 3rd Quarter: 0.068 gpm
- 4th Quarter: 0.044 gpm

2.2.2 Lower Fine Sand Water-Bearing Zone Extraction Summary

A total of approximately 1,026,204 gallons of groundwater was extracted from the deep zone from RW-2D during 2004. Groundwater yields were lowest during the 1st and 2nd Quarters at 245,215 and 224,847 gallons removed respectively. After re-development of the recovery well and removal of precipitates from the screen and pumping system at the end of July, groundwater recovery was increased to 267,257 gallons in the 3rd Quarter and 288,885 gallons in the 4th Quarter.

The average steady state groundwater extraction from the NPL Area deep zone by quarter is as follows:

- 1st Quarter: 1.89 gpm
- 2nd Quarter: 1.72 gpm
- 3rd Quarter: 2.02 gpm
- 4th Quarter: 2.18 gpm

2.3 Groundwater Flow Conditions

Groundwater flow conditions in the shallow and deep water-bearing zones at the site for the 2004 period are presented in this section. Semi-annual groundwater contour maps representative of pumping conditions within the shallow and deep zones are provided as **Figures 3 through 6**. Pumping conditions in each treatment area of the site are described below.

2.3.1 Shallow Water-Bearing Zone

The natural groundwater flow direction is toward the northeast in the NPL and AST/UST Areas. The groundwater flow direction from the UST Area is radial with a general flow direction toward the northeast, with western and eastern flow components. Groundwater contour maps (**Figure 3** and **Figure 5**) represent groundwater flow conditions during pumping in the shallow zone for 2004.

2.3.1.1 NPL Area

Groundwater flow conditions were uniform within the NPL Area during 2004 under pumping conditions. A cone of depression was maintained throughout the NPL area and is depicted on **Figure 3** and **Figure 5**. Generally, the cone of depression was approximately 1 foot lower in elevation with a slightly greater aerial influence during November as compared to the May event.

2.3.1.2 AST/UST Area

Groundwater flow across the AST/UST is toward the northeast. Groundwater is extracted in this area from RW-3S, located on the downgradient edge of the area. Pumping performance in this area has remained congruous to conditions experienced during previous years. A significant cone of depression is not developed within this area due to the low transmissivity of the thin saturated zone. The low yield from the recovery well causes the pumping system to cycle as the control system alternately activates and de-activates the pump based upon water level within the well, rather than sustaining a steady pumping rate from the well.

2.3.1.3 UST Area

No groundwater was directly extracted from the UST Area during 2004. Recovery Well RW-4S was destroyed and RW-5S was made inoperable after the November 2002 UST removals in this area. Evaluation of the groundwater contours in this area indicates that a mound effect of the water table remains after removal of the tanks. Groundwater capture from pumping in the NPL Area is apparent on the western side of the area and to the north beneath Building 5. Groundwater on the east of the area appears to flow away to the northeast, east and southeast.

2.3.2 Lower Fine Sand Water-Bearing Zone

Groundwater pumping from the LFSWBZ occurred only from RW-2D in the NPL Area during 2004. The natural groundwater flow direction of the deep zone under non-pumping conditions is toward the northeast across the site. Groundwater contour maps (**Figure 4** and **Figure 6**) represent groundwater flow conditions during pumping in the deep zone for 2004.

The potentiometric contour maps for the semi-annual groundwater monitoring events of 2004 are relatively similar, with minor elevation changes due to drawdown differences in RW-2D. Groundwater capture occurs throughout the NPL Area and Building 5. Groundwater contours to the east of Building 5 (offsite) indicate that pumping from RW-2D is not influencing / the groundwater in this area.

3.0 Water Quality Results and Summary

Groundwater sampling during 2004 represented the seventh full year of operation of the remedial systems. Groundwater sampling for 2004 consisted of the following:

- Semi-Annual Recovery Well Sampling for VOCs
- Annual Sampling of the Performance Monitoring Plan (PMP) well network for VOCs
- Monthly influent and effluent sampling of the wastewater pre-treatment system in support of POTW permit requirements.

Table 3 through **Table 10** summarizes the recovery well analytical data. **Table 3-1** through **Table 3-2** provides a summary of the semi-annual recovery well data for each monitoring quarter. The performance monitoring well data is provided in **Table 11** through **Table 22**. **Figure 11** and **Figure 12** provide a summary of the VOCs detected at each monitoring and recovery well location for the 4th quarter 2004 sampling round. **Table 23** through **Table 26** represent the wastewater influent, treatment and effluent sample data for 2004. **Appendix B** includes concentration versus time plots for all the Recovery Wells and PMP wells. Laboratory Certificates of Analysis are included in **Appendix C**. The following sections describe the conditions occurring in each of the three remedial areas, with a comparison to previous analytical results.

3.1 North Parking Lot Area

Both the shallow unconfined water-bearing zone and the deeper confined lower fine sand water-bearing zone are monitored in the NPL Area.

3.1.1 NPL Shallow Water-Bearing Zone

The shallow monitoring system for the NPL Area consists of Recovery Wells RW-1S and RW-2S, as well as monitoring wells MW-6, MW-7S, MW-14S, and MW-15S. **Table 4** and **Table 5** summarize the semi-annual recovery well analytical results. Annual groundwater sampling results for the NPL Area monitoring wells are summarized in **Tables 13, 14, 17, and 19**.

Maximum VOC concentrations detected in RW-1S (**Table 4**) during 2004 included: 1,1-Dichloroethene (DCE) (11 µg/L), cis-1,2-DCE (1,800 µg/L), trans-1,2DCE (6.0 µg/L), Trichloroethene (TCE) (4,900 µg/L), and vinyl chloride (38 µg/L). All detections are within historic ranges of previous sampling events.

Monitoring well MW-6 is located in the northwest portion of the NPL Area. No VOCs have been detected in this well for the past four annual sampling events.

Monitoring well MW-7S is located in the northeast corner of the NPL Area adjacent to RW-2S and RW-2D. VOCs detected within this well in the December 2004 sampling event were acetone (16 µg/L) and TCE (7.2 µg/L). The 2004 sampling was the first time that acetone had been detected in this well. TCE concentrations are consistent with the sampling results from the past three years. Cis-1,2-DCE, that had been detected at 23 µg/L in 2003 with a reducing trend to 9.9 µg/L in 2003, was below 5 µg/L for this sampling round.

Monitoring well MW-14S is located on the Hope property to the north of the NPL Area. Benzene (1.8 µg/L), 1,1-DCE (28 µg/L), cis-1,2-DCE (2,100 µg/L), trans-1,2-DCE (18 µg/L), TCE (2,700 µg/L), Vinyl chloride (190 µg/L), and total Xylenes (22 µg/L) were detected in this well during the December 2004 sampling event. All constituents, with the exception of total xylenes that had not been previously detected, decreased or remained the same from the 2003 sampling event.

Monitoring well MW-15S is located on the eastern portion of the Hope property to the north of the NPL Area. Trichloroethene was the only constituent detected at 6.9 µg/L . This is a decrease from 13 µg/L , which was detected during the 2003 sampling event. This location had historically shown concentrations for TCE at 140 µg/L in 1995 and 1997 sampling events.

3.1.2 NPL Lower Fine Sand Water-Bearing Zone

The NPL deep water-bearing zone monitoring network consists of Recovery Wells RW-1D and RW-2D sampled semi-annually, and Monitoring Wells MW-7D, MW-8, MW-14D, MW-15D, MW-19D and MW-21D and MW-22D sampled annually. Note MW-21D and MW-22D, installed in 2003, were added to the PMP annual monitoring schedule starting in 2004, at the direction of the NYSDEC. Historical analytical results for Recovery Wells RW-1D and RW-2D are summarized on **Table 9** and **Table 10**. The monitoring well analytical historical results are provided on **Tables 15, 16, 18, 20, 21, 23, and 24**.

Maximum VOC concentrations detected in RW-1D (**Table 9**) during 2004 included acetone (11 µg/L), benzene (5.3 µg/L) 1,1-DCE (8.3 µg/L), cis-1,2-DCE (580 µg/L), trans-1,2-DCE (18 µg/L), TCE (32 µg/L), and vinyl chloride (75 µg/L). All constituent concentrations are within historical concentration ranges. Note cis-1,2-DCE has shown reduced concentrations for the past two years as compared to the levels detected between April 2001 and August 2003 where the concentrations ranged between 180 to 3,000 µg/L.

Maximum VOC concentrations detected in RW-2D (**Table 10**) during 2004 included benzene (11 µg/L), 1,1-DCE (34 µg/L), cis-1,2-DCE (6,400 µg/L), trans-1,2-DCE (41 µg/L), TCE (1,100 µg/L), and vinyl chloride (1,600 µg/L). All VOC concentrations remained relatively consistent with recent quarterly sampling events with the exception of TCE, which is at its highest concentration since March 2001. Note the pilot PRB was injected around this actively pumped well in August of 2000, and TCE concentrations were reduced by an order of magnitude starting in July 2001 with levels typically ranging from 150 to 330 µg/L to the

December 2002 sampling event. After 2002, the TCE levels have shown an increasing trend from 490 µg/L in December 2003 to the present value of 1,100 µg/L. Both cis-1,2-DCE and vinyl chloride (breakdown products of TCE), have remained at elevated levels – although variable, since the installation of the pilot PRB.

Monitoring Well MW-7D is located adjacent to Recovery Well RW-2D in the NPL Area. VOCs detected in this well during the December 2004 sampling event included benzene (9.0 µg/L), 1,1-DCE (12 µg/L), cis-1,2-DCE (6,900 µg/L), trans-1,2-DCE (31 µg/L), TCE (25 µg/L), and vinyl chloride (1,100 µg/L) as shown in **Table 15**. Since the installation of the pilot PRB in 2000, TCE has decreased by two orders of magnitude from 17,000 µg/L detected in 1999 to less than 5 µg/L in 2003 and the current value of 25 µg/L. Conversely, Vinyl chloride has increased from non-detect to 1,100 µg/L; and cis-1,2-DCE (first analyzed for in December 2001) remains at elevated levels. This is indicative of degradation of the TCE in the area of monitoring well MW-7D.

Monitoring Well MW-8 is located within the NPL Area to the west of RW-2D. VOCs detected in this well for 2004 included acetone (470 µg/L), benzene (2.4 µg/L), cis-1,2-DCE (96 µg/L), trans-1,2-DCE (7.4 µg/L), TCE (170 µg/L), and vinyl chloride (15 µg/L). **Table 16** details the historical groundwater concentrations for monitoring well MW-8. Acetone, detected at 470 µg/L, had not been previously detected in the last three years – this concentration is the highest historically detected within this well. TCE at 170 µg/L showed an increase in concentration for the 2004 event compared to non-detect values for 2002 and 2003. All other constituent concentrations are within historical concentration ranges.

Monitoring Well MW-14D is located on the Hope property to the north of the NPL Area. No VOCs have been detected in this well during 2004. The historical groundwater sampling results for monitoring well MW-14 D is provided as **Table 18**.

Monitoring well MW-15D is located on the eastern portion of the Hope property to the north of the NPL Area. VOCs detected in this well for 2004 included benzene (1.7 µg/L), 1,1-DCE (59 µg/L), cis-1,2-DCE (11,000 µg/L), trans-1,2-DCE (91 µg/L), TCE (1,100 µg/L), and vinyl chloride (270 µg/L). All constituents are consistent with the 2003 groundwater sampling results with the exception of cis-1,2-DCE which has been increasing since 2001. The historical groundwater sampling results for monitoring well MW-14D is provided as **Table 20**.

The only VOC detected in Monitoring Well MW-19D (**Table 21**), located on the eastern property line, was vinyl chloride at 760 µg/L. This concentration is a comparable to levels detected in 2002 (660 µg/L) and 2003 (600 µg/L).

Monitoring well MW-21D is located along Hopkins Avenue northeast of the NPL Area. This well was installed in 2003 and has only been sampled in December 2003 and 2004 to date. VOCs detected in this well for 2004 included benzene (560 µg/L), 1,1-DCE (430 µg/L), cis-1,2-

DCE (28,000 µg/L), trans-1,2-DCE (280 µg/L), toluene (27 µg/L), TCE (160,000 µg/L), and vinyl chloride (2,400 µg/L). TCE, cis-1,2-DCE and vinyl chloride showed concentrations approximately half the values in 2004 as detected in 2003. The other compounds detected were comparable in concentrations to the 2003 sampling event, with a slight decrease in values. The groundwater sampling results for monitoring well MW-21D is provided as **Table 23**.

Monitoring well MW-22D is located on the north side of Hopkins Avenue north of the NPL Area. This well was installed in 2003 and has only been sampled in December 2003 and 2004 to date. VOCs detected in this well for 2004 included benzene (6.7 µg/L), 1,1-DCE (20 µg/L), cis-1,2-DCE (3,300 µg/L), trans-1,2-DCE (21 µg/L), TCE (12,000 µg/L), and vinyl chloride (57 µg/L). Note that a duplicate sample was collected from monitoring well MW-22D. The detected compounds are comparable to concentrations detected in 2003. The groundwater sampling results for monitoring well MW-22D is provided as **Table 24**.

3.2 AST/UST Area

The AST/UST Area shallow groundwater is monitored by Recovery Well RW-3S and Monitoring Well MW-2. Historical groundwater quality results for these wells are provided on **Table 6** and **Table 12**.

Maximum VOC concentrations detected in RW-3S (**Table 6**) during 2004 included benzene (26 µg/L), isopropylbenzene (16 µg/L), ethylbenzene (65 µg/L), vinyl chloride (4.8 µg/L), and total xylenes (89 µg/L). All constituents showed variable concentrations throughout 2004, similar to those exhibited in 2003.

VOCs detected for the 2004 annual monitoring at MW-2 (Table 12), located within the AST/UST Area, include benzene (1.4 µg/L) and isopropylbenzene (7.5 µg/L). These concentrations are consistent with the 2003 annual groundwater sampling results.

3.3 UST Area

Monitoring points in the UST Area consist of Recovery Wells RW-4S and RW-5S that were sampled quarterly through September 2002. The only well currently monitored for this area is MW-20 that is sampled annually. Historical laboratory results for these wells are summarized on **Table 7**, **Table 8**, and **Table 22**. During UST removal activities in November-December 2002, RW-4S was destroyed and RW-5S was deemed inoperable. Therefore, with the approval of the NYSDEC, quarterly sampling of these recovery wells was suspended as of the 4th Quarter of 2002. The UST Area is currently being evaluated through supplemental investigations with results provided under separate cover (see Section 1.1).

VOCs detected at MW-20 (**Table 22**) located to the north of the UST Area included benzene (2.1 µg/L), isopropylbenzene (400 µg/L), ethylbenzene (3,000 µg/L), toluene (1,900 µg/L), and xylenes (22,000 µg/L). All VOC concentrations remained relatively consistent with recent sampling events.

Xylenes
NW-20

3.4 Site Pre-Treatment System

The site groundwater pre-treatment system consists of a 2,200 gallon equalization tank, transfer pump, sediment filters, and two (2) 900 lb granular carbon treatment vessels arranged in series. A third carbon treatment vessel is retained as a spare for carbon change-outs. The groundwater pumped from the recovery wells is discharged to the equalization tank, and pumped through the carbon vessels for pre-treatment prior to discharge to the City of Jamestown Publically Owned Treatment Works (POTW) for final treatment.

3.4.1 Pre-Treatment System Analytical Results

Pursuant to the City of Jamestown Board of Public Utilities (BPU) Industrial Wastewater Discharge Permit Number 26 (Permit), the pre-treatment system is monitored for pH and VOCs to ensure compliance with the discharge requirements. Sampling points include the influent, primary carbon effluent and secondary carbon effluent (discharge to POTW). These points are sampled on a monthly basis and reported to the Jamestown BPU on a semi-annual basis.

Groundwater pre-treatment system data for 2004 is summarized on **Table 23** through **Table 26**. These tables represent system influent, individual carbon vessel effluent and post carbon (system discharge to POTW) concentrations. Note that after June 2003, only two carbon vessels were used for treatment of groundwater prior to discharge to the POTW. The third carbon vessel was removed from the treatment system after the UST removal activities were completed.

Pre-Carbon influent concentrations reflect a composite from all of the operating groundwater extraction wells prior to pre-treatment. The constituents detected during the year are acetone (<10 µg/L to 31 µg/L), benzene (5.2 µg/L to 11 µg/L), 1,1-DCE (<5 µg/L to 25 µg/L), cis-1,2-DCE (<5.0 µg/L to 5,300 µg/L), trans-1,2-DCE (10 µg/L to 49 µg/L), ethylbenzene (<5.0 µg/L to 6.3 µg/L), TCE (390 µg/L to 1,000 µg/L), vinyl chloride (350 µg/L to 1,000 µg/L), and xylenes (<5.0 to 78.1 µg/L).

3.4.2 Pre-Treatment System Maintenance

The carbon treatment system was changed-out on June 18, 2004, based upon increasing system effluent concentrations approaching the Permit limits of 2,130 ug/l total toxic organics (VOCs). The Primary Carbon (Vessel #3) was taken offline, and the Secondary Carbon (Vessel #1) was placed in the Primary position. The spare carbon (Vessel #2) was placed in the secondary position.

On June 20, 2004, Envirotrol Inc. performed a carbon exchange on Vessels #1 and #3. Regenerated carbon was used to recharge the units, and the spent carbon was transported to Envirotrol's Darlington, Pennsylvania facility for re-generation. At this time, the partially used Secondary Carbon (Vessel #2) was moved to the Primary position, and a fresh carbon unit (Vessel #1) was placed in the Secondary position. The newly recharged unit (Vessel #3) was retained as a spare unit.

On December 17, 2004 the Primary Carbon (Vessel #2) was removed due to excessive buildup of precipitates in the upper 24-inches of the carbon column, resulting in blockage and reduced water flow through the system. The unit in the Secondary position (Vessel #1) was moved to the Primary position, and the spare unit (Vessel #3) was placed in the Secondary position. No carbon recharge of Vessel #2 has been completed to date, this unit is being retained for emergency use if required. URS will monitor the system effluent concentrations monthly and schedule a carbon re-charge when concentrations begin to approach the Permit limits.

4.0 SVE/Sparging System Performance

The soil vapor extraction (SVE) and groundwater sparging systems in the NPL, UST and AST/UST Areas were started-up during the third and fourth quarters of 1997. The SVE/Sparging systems were designed to enhance dissolved constituent removal from the shallow water-bearing zone in the NPLS Area; and to reduce the contaminant source in both the unsaturated zone and shallow groundwater in the AST/UST and UST Areas. No air sparging was conducted in the UST Area during 2004 as the SVE/Sparging System in the UST Area was demolished in November 2002 as part of the UST tank removal activity. System operational data, air stream analytical data, and estimated mass removal calculations for 2004 are presented in **Appendix D**.

Air stream analytical samples were collected to monitor system performance in each treatment area. The air samples are analyzed for volatile and semi-volatile constituents by Microseeps Inc. of Pittsburgh, Pennsylvania. The air stream samples represent a grab sample of the system influent (main header) and effluent (post carbon) for the date collected. Influent sample results vary depending upon system extraction efficiency related to the moisture content in the vadose zone and the quantity of condensate water collected in the SVE wells and piping laterals.

4.1 NPL Area

The SVE system in the NPL Area is operated primarily as a safeguard to collect any potential vapors released from groundwater as a result of the 2000-2002 pilot PRB. The groundwater air-sparging system was shut down in 2000 to eliminate potential interference with the PRB pilot test with the approval of the NYSDEC.

Air stream samples collected in the NPL Area during July and November 2004 showed detections of TCE and cis-1,2-DCE. An estimated 1.29 lbs of VOCs were removed from the unsaturated zone by the SVE system for the operation year of 2004, for a total of approximately 16.4 lbs since 1997.

4.2 AST/UST Area

Air stream samples in the AST/UST Area showed no recovery of VOCs removed from the AST/UST area during 2004. Since 1997, a total of approximately 38.05-lbs of VOCs have been removed since the start of operations.

5.0 Performance Summary

The performance and progress of remedial activities completed at the site during calendar year 2004 is summarized as follows:

5.1 Groundwater Extraction

Groundwater extraction volume from the shallow zone was approximately 20% less during 2004 (486,133 gallons) as compared to 2003 (602,338 gallons). The principal decrease was due to pump down time experienced during the 1st and 2nd Quarters. In the NPL Area, production from RW-1S was similar to the previous year, but RW-2S was less due to pumping equipment malfunction. 456,749 gallons of groundwater was removed from the NPL Area in 2004 as compared to 586,671 gallons in 2003. Overall for the year, hydraulic control in the NPL Area was maintained similar to that experienced in 2003. Groundwater recovery in the AST/UST Area from RW-3S increased by approximately 47% in 2004 (29,384 gallons) as compared to 2003 (15,667 gallons).

Groundwater recovery from the deep zone was approximately 5% greater than the previous year, with a total of 1,026,204 gallons of water removed. Pumping influence degraded during the 2nd Quarter due to buildup of precipitates within RW-2D. The recovery well and associated equipment was cleaned in July 2004 of hydroxide precipitates associated with the PRB pilot test zero-valent iron injections in the area of RW-2D. Influence within the deep zone during the later half of 2004 was maintained for the similar to the 2003 data.

5.2 Groundwater Quality

5.2.1 NPL Area Shallow Zone

Overall, VOC concentrations remained within the historical ranges in the NPL Area shallow zone in 2004. In onsite wells (RW-1S, RW-2S and MW-7) groundwater constituent concentrations remained relatively the same, with the exception of TCE at RW-1S that increased by an order of magnitude as compared to recent historical data. At offsite wells (MW-14S and MW-15S), a slight decrease in VOCs concentrations occurred at MW-14S; and TCE concentrations MW-15S remained similar to past data. Note that xylenes were detected at MW-14S for the first time during the 2004 sampling. This constituent is not typically associated with the shallow zone in the NPL Area onsite.

5.2.2 NPL Area Deep Zone

Principal changes in VOC concentrations in the NPL Area deep zone onsite wells (RW-1D, RW-2D, MW-7D, and MW-8) during 2004 are as follows:

- RW-1D – cis-1,2-DCE decreased by an order of magnitude; TCE and vinyl chloride remained at comparable levels.

- RW-2D – TCE exhibited an increasing trend since 2003; cis-1,2-DCE and vinyl chloride have remained at similar levels to 2003.
- MW-7D – cis-1,2-DCE increased in concentration by over double the 2003 levels; TCe and vinyl chloride have remained at comparable levels.
- MW-8D – TCE has slightly increased from the previous 2002 and 2003 data where non-detect values were recorded; acetone was detected at 470 ug/L, only previous detection for this compound was 10 ug/L in 2000.

Constituent concentration changes observed during 2004 in the offsite wells (MW-14D, MW-15D, MW-19D, MW-21D and MW-22D) include:

- MW-21D – TCE, cis-1,2-DCE and vinyl chloride decreased by approximately 50% for the 2004 sampling as compared to the 2003 event.
- MW-14D, -15D and MW-19D – constituent concentrations at these locations remained relatively comparable to the previous year's results.

During the 2003 UST Area and Groundwater Vinyl Chloride Investigations, an offsite TCE and associated constituents plume was discovered offsite to the northeast after installation of MW-21D and MW-22D. The presence of this plume was not previously known, as it had not been detected during the Remedial Investigation (RI) completed for the site in 1992 and 1993. An investigation of the offsite plume will be completed in 2005 to delineate the vertical and horizontal extent.

5.2.3 AST/UST Area Shallow Zone

Groundwater VOC concentrations in the AST/UST Area as monitored by RW-3S and MW-2 continue to exhibit a decreasing trend toward site cleanup criteria with slight increases in December 2004.

5.3 Soil Vapor Extraction/Air Sparging Systems

5.3.1 NPL Area

Only the soil vapor extraction system was operated during the year to recover potential subsurface vapors generated by the PRB pilot test injections. No air sparging has been completed in the shallow groundwater since August of 2000. VOCs recovered during 2004 included 1.29-lbs of TCE and cis-1,2-DCE. To date, approximately 16.4-lbs of VOCs have been recovered from the vadose zone in this area.

5.3.2 AST/UST Area

Both the SVE and air sparging system were operated in this area during 2004. VOC recovery has decreased since peak recoveries in 1998 as the area's soils and groundwater has

been remediated to levels approaching cleanup criteria. No VOCs were detected in the system air stream influent or effluent during 2004. VOC recovery has tailed off from 21.8-lbs in 1998. To date, approximately 38.5-lbs of VOCs have been removed from the vadose zone in this area. Soil sampling conducted at the end of 2001 indicated only three hot spots remained at the water table interface above cleanup criteria.

TABLES

Table 1
Soil and Groundwater Remedial Action Objectives (RAOs)
Essex/Hope Site
Jamestown, New York

MEDIA	PARAMETER	RAO
Soil	Total Volatile Organics Compounds (VOCs)	10 ppm
	Each individual VOC	1 ppm
	Total Semi-Volatile Organic Compounds (SVOCs)	500 ppm
	Each Individual SVOC	50 ppm
	Polychlorinated Biphenyls (PCBs)	10 ppm
Groundwater⁽¹⁾	Trans-1,2-Dichloroethylene	5 ppb
	Trichloroethene (trichloroethylene)	5 ppb
	Vinyl Chloride	5 ppb
	Ethylbenzene	5 ppb
	Toluene	5 ppb
	Xylene	5 ppb
	PCBs	0.1 ppb

⁽¹⁾ = Other compounds, not listed, would have RAOs in compliance with NYSDEC Ambient Groundwater Quality Standards.

ppm = part per million

ppb = part per billion

Table 2
2004 Groundwater Extraction Summary
Essex/Hope
Jamestown, New York

Period	Recovery Well				
	RW-1S Gallons Pumped	RW-2S Gallons Pumped	RW-3S Gallons Pumped	RW-1D Gallons Pumped	RW-2D Gallons Pumped
1st Quarter	17,699	32,051	8,078	0	245,215
2nd Quarter	17,282	149,245	6,306	0	224,847
3rd Quarter	15,826	127,851	9,140	0	267,257
4th Quarter	16,612	80,182	5,860	0	288,885
Total	67,419	389,330	29,384	0	1,026,204

Period	Site Area		
	NPLS Shallow Area Gallons Pumped	AST Area Gallons Pumped	NPLS Lower Fine Sand Water Bearing Zone Gallons Pumped
1st Quarter	49,750	8,078	245,215
2nd Quarter	166,527	6,306	224,847
3rd Quarter	143,677	9,140	267,257
4th Quarter	96,795	5,860	288,885
Total	456,749	29,384	1,026,204

Period	Total Estimated Gallons Pumped – All Areas
1st Quarter	303,043
2nd Quarter	397,680
3rd Quarter	420,074
4th Quarter	391,539
Total	1,512,336

Table 3
Semi-Annual Recovery Well Analytical Results (ug/l)

2nd Quarter Sampling
May 14, 2004

Volatile Compounds	Site GW RAOs	RW-1S	RW-1D	RW-2S	RW-2D	RW-3S	Trip Blank
Acetone		<10	11	<10	<10	<10	<10
Benzene		<1.0	1.5	<1.0	11	1.8	<1.0
2-Butanone		<10	<10	<10	<10	<10	<10
Chloroform		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropylbenzene (Cumene)		<5.0	<5.0	<5.0	<5.0	7.4	<5.0
1,1-Dichloroethane		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene		11	8.3	<5.0	34	<5.0	<5.0
cis-1,2-Dichloroethene		740	370	88	6,400	<5.0	<5.0
trans-1,2-Dichloroethene	5	<5.0	8.1	<5.0	32	<5.0	<5.0
Ethylbenzene	5	<5.0	<5.0	<5.0	<5.0	43	<5.0
4-Methyl-2-pentanone		<10	<10	<10	<10	<10	<10
Methylene Chloride		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	5	4,800	8.5	450	760	<5.0	<5.0
Vinyl Chloride	5	38	14	4.7	1,600	4.8	<2.0
Xylenes (total)	5	<5.0	<5.0	<5.0	<5.0	75	<5.0

4th Quarter Sampling
December 21, 2004

Volatile Compounds	Site GW RAOs	RW-1S	RW-1D	RW-2S	RW-2D	RW-3S	Trip Blank
Acetone		<10	<10	<10	<2.0	<10	<10
Benzene		<1.0	5.3	<1.0	11	26	<1.0
2-Butanone		<10	<10	<10	<10	<10	<10
Chloroform		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropylbenzene (Cumene)		<5.0	<5.0	<5.0	<5.0	16	<5.0
1,1-Dichloroethane		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene		8.7	7.1	<5.0	26	<5.0	<5.0
cis-1,2-Dichloroethene		1800	580	20	4,900	<5.0	<5.0
trans-1,2-Dichloroethene	5	6.0	18	<5.0	41	<5.0	<5.0
Ethylbenzene	5	<5.0	<5.0	<5.0	<5.0	65	<5.0
4-Methyl-2-pentanone		<10	<10	<10	<10	<10	<10
Methylene Chloride		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	5	4,900	32	42	1100	<5.0	<5.0
Vinyl Chloride	5	25	75	<2.0	850	<2.0	<2.0
Xylenes (total)	5	<5.0	<5.0	<5.0	<5.0	89	<5.0

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 4
RW-1S
Quarterly Sample Results (ug/L)

Volatile Compounds	Site GW RAOs	Aug-95	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00	Apr-00	Aug-00	Nov-00	Mar-01	Jul-02-01	Sept-01	Jan-06-02	Mar-02	Jul-05-02	Sept-02	Dec-02	Feb-03	May-03	Aug-03	Dec-03	May-04	Dec-04
Acetone		10	< 50 ^b	< 10	< 10	<200	<25	<50	< 10	<5	<5	9	<5	<10	<5	15 ^B	<5	<5	<5	50	<5	14	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene		NA	< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1		
2-Butanone		NA	120	< 10	< 10	<200	<5	<50	< 10	<5	<5	<5	<5	<10	<5	9	<5	<5	<5	<5	<10	<5	<10	<10	<10	<10	<10	<10	<10		
Chloroform		NA	< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Isopropylbenzene (Cumene)		NA	NA	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	14	6.1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
1,1-Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5	<5	<5	<5	5.4	5.4	<5	8.4	<5	9.5	<5	7.8	<5	11	8.7	
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44	530	1,200	780	780	59	1,100	86	1,000	190	970	1,900	740	1800		
trans-1,2-Dichloroethene	5	1,700	180	< 5	< 5	<100	<5	<25	9	2	<1	<1	<5	<1	77	7.2	<5	<5	11	<5	12	<5	5.2	<5	7.0	<5	8.1	<5	<5	6.0	
Ethylbenzene	5	NA	< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	9	2.52	<5	<5	<5	<5	<5	<5	77	<5	<5	<5	<5	<5	<5	
Methylene Chloride		<17	< 35 ^b	11	< 5	<100	18	10 J	< 5	<1	<1	<1	<1	<5	<1	2^B	2	<5	4^B	8	6.01^B	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Trichloroethene	5	3,500	460	< 5	1,900 D	12,000	910	570	1,300	180 D	590	41	37	41	24	150	120	100	1,500	3,300	1,800	2,300	360	2,400	210	4,000	1,400	3,900	280	4,800	4,900
Toluene	5	NA	< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	4	1.34	<5	<5	<5	<5	<5	<5	38	<5	<5	<5	<5	<5	<5	
Vinyl Chloride	5	240	< 25	< 5	32	110	<5	11 J	20	8	3	1	<1	<5	<1	470 D	320 D	28	150	160	180	87	<2	28	12	120	28	41	9.3	38	25
Xylenes (total)	5	4	< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	2	5	<5	<3	78	22	<5	<5	<5	<5	<5	<5	<5	<5	<5	

Polychlorinated Biphenyls (PCBs)	Site GW RAOs	Aug-95	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00
Aroclor-1016	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1221	0.1	NA	< 0.20	NA	< 0.3	< 0.3	<0.1	<0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.10	< 0.20
Aroclor-1232	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1242	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1248	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1254	0.1	<1	< 0.10	NA	< 0.3	< 0.3	<0.1	0.032 J	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1260	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D,* = Analyzed with dilution See laboratory reports for dilution factors.

** Sample results reported represent the highest values obtained from the 5.5 hr and 29 hr samples

E = Concentration exceeded calibration range of instrument.

J = Estimated Concentration

NA = Not Analyzed

ug/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 5
RW-2S
Quarterly Sample Results (ug/L)

Volatile Compounds	Site GW RAOs	Aug-95	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00	Apr-00	Aug-00	Nov-00	Mar-01	Jul-02-01	Sept-01	Jan-08-02	Mar-02	Jul-05-02	Sept-02	Dec-02	Feb-03	May-03	Aug-03	Dec-03	May-04	Dec-04
Acetone		<10/<10	< 10	< 500	< 10	<50	<5	<10	< 10	<5	<50	<5	<5	<10	<5	65 ^B	<5	<5	<5	<10	<5	<10	<10	<10	<10	<10	<10	12 ^B	<10	<10	
Benzene		NA	< 5	< 250	< 5	<25	<1	<5	< 5	<1	<10	<1	<1	<5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
2-Butanone		NA	< 10	< 500	< 10	<50	<5	<10	< 10	<5	<50	<5	<5	<10	<5	21	<5	<5	<5	<10	<5	<10	<10	<10	<10	<10	<10	<10	<10		
Chloroform		NA	< 5	< 250	< 5	<25	<1	<5	< 5	<1	<10	<1	<1	<5	<1	<2	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Isopropylbenzene (Cumene)		NA	NA	< 250	< 5	<25	<1	<5	< 5	<1	<10	<1	<1	<5	<1	2	1.54	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
1,1-Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	820	400	500	110	99	8.8	210	8.9	120	32	140	17	88	20		
trans-1,2-Dichloroethene	5	2,200/2,800	130	< 250	< 5	<25	<1	17	< 5	<1	<10	<1	<1	<5	<1	92	56	8.7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Ethylbenzene	5	NA	< 5	< 250	< 5	<25	<1	<5	< 5	<1	<10	3	<1	<5	<1	2	1.34	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Methylene Chloride		<10/<10	< 13 ^B	880	< 5	30	<1	2 J	< 5	<1	36 ^B	<1	5 ^B	<5	4 ^B	48 ^B	4.23 ^B	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Tetrachloroethene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.93	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Toluene	5	NA	< 5	< 250	< 5	<25	<1	<5	< 5	<1	<10	<1	<1	<5	<1	2.01	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
1,1,2-Trichloroethane		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA	
Trichloroethene	5	7,700/10,000	410 D	3,700	750 D	380	120	970 E	1,100	1,900 D	2,700	1,500 D	17	48	490 D	43	8,400 D	1,500	2,200	2,900	22	7.7	200	630	7.2	340	89	390	15	450	42
Vinyl Chloride	5	100/81	< 5	< 250	< 5	<25	<1	<5	8	4	<10	2	<1	<5	<1	180	470 D	120	38	<2	15	5.8	<2	7.4	<2	6.4	<2	2.8	<2	4.7	<2
Xylenes (total)	5	<10/10	< 5	< 250	< 5	<25	<1	<5	< 5	<1	<10	20	2	<5	<3	17	13	<5	<5	<5	<5	8.5	<5	<5	<5	<5	<5	<5	<5	<5	

Polychlorinated Biphenyls (PCBs)	Site GW RAOs	Aug-95	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00
Aroclor-1016	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	<0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1221	0.1	NA	< 0.20	NA	< 0.3	< 0.3	<0.1	<0.2	< 0.2	<0.2	<0.20	<0.20	<0.10	<0.20
Aroclor-1232	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	<0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1242	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	<0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1248	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	<0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1254	0.1	<1/<1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	<0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1260	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	<0.1	<0.10	<0.10	<0.10	<0.10

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D,* = Analyzed with dilution. See laboratory reports for dilution factors.

** Sample results reported represent the highest values obtained from the 5.5 hr and 29 hr samples.

E = Concentration exceeded calibration range of instrument

J = Estimated Concentration

NA = Not Analyzed

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 6
RW-3S
Quarterly Sample Results (ug/L)

Volatile Compounds	Site GW RAOs	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00	Apr-00	Aug-00	Nov-00	Mar-01	Jul-02-01	Sept-01	Jan-08-02	Mar-02	Jul-05-02	Sept-02	Dec-02	Feb-03	May-03	Aug-03	Dec-03	May-04	Dec-04
Acetone		< 2000	< 1000	14	<500	<50	<100	< 10	<5	15	<5	<10	10	18 ^B	<5	<10	<5	<5	<5	<10	<5	<10	<10	<10	<10	<10	<10	<10	<10	
Benzene		< 1000	< 500	21	<250	15	16 J	9	17	<2	7	11	<5	12	18	11	7.7	35	21	52	1.3	<1	1.6	16	40	10	17	<1	1.8	26
2-Butanone		< 2000	< 1000	< 10	<500	<50	<100	< 10	<5	<10	<5	<10	<5	<10	<5	<10	<5	<5	<5	<10	<5	<10	<10	<10	<10	<10	<10	<10		
Chloroform		< 1000	< 500	< 5	<250	<10	<50	< 5	<1	<2	<1	<2	<5	<2	<1	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Isopropylbenzene (Cumene)		NA	< 500	160	<250	71	110	24	83	3	34	39	13	47	50	24	17	38	27	56	<5	15	<5	13	25	6.8	13	<5	7.4	16
1,1-Dichloroethane		<1000	<500	<5	<250	<50	<50	<5	2	<2	<1	<2	<5	<2	<1	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	6.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	5	< 1000	< 500	< 5	<250	<10	<50	< 5	<1	<2	<1	<2	<5	<2	<1	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Ethylbenzene	5	1,800	740	1,100 D	940	510	600	780	490 D	12	140	190	81	180	210 D	120	96	190	95	310	11	97	8.1	<5	150	42	33	<5	43	65
Methylene Chloride		< 1000	< 500	< 5	360	<10	<50	< 5	<1	12 ^B	<1	2 ^B	<5	57 ^B	<1	12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	5	7,700	4,800	3,700 D	1,700	430	180	< 250	83	3	15	8	6	6	2	<2	<5	<5	<5	<5	140	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	5	< 1000	< 500	< 5	<250	<10	<50	< 5	87 D	<2	<1	2	<10	<2	2	2.66	<5	<5	<5	<5	<5	<5	<5	8.2	<5	<5	<5	<5	<5	<5
Vinyl Chloride	5	< 1000	< 500	11	<250	<10	<50	< 5	11	<2	<1	<2	<5	<2	2	<2	<2	<2	<2	17	<2	<2	<2	<2	<2	<2	<2	4.8	<2	
Xylenes (total)	5	22,000	11,000	13,000 D	13,000	5,100	4,200 E	20,000	3,100 D	370	700 D	640	370 D	440	150	93	184	279	99	590	55	95	63.4	<5	152	125	15	97	75	89

Polychlorinated Biphenyls (PCBs)	Site GW RAOs	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00
Aroclor-1016	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1221	0.1	< 0.20	NA	< 0.3	< 0.3	<0.1	<0.2	< 0.2	<0.20	<0.20	<0.10	<0.20	
Aroclor-1232	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	<0.10	<0.10	<0.10	<0.10	
Aroclor-1242	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	<0.10	<0.10	<0.10	<0.10	
Aroclor-1248	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	<0.10	<0.10	<0.10	<0.10	
Aroclor-1254	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	<0.10	<0.10	<0.10	<0.10	
Aroclor-1260	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	<0.10	<0.10	<0.10	<0.10	

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D* = Analyzed with dilution. See laboratory reports for dilution factors

E = Concentration exceeded calibration range of instrument

J = Estimated Concentration

NA = Not Analyzed

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 7
RW-4S
Quarterly Sample Results (ug/L)

Volatile Compounds	Site GW RAOs	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-00	Feb-00	Apr-00	Aug-00	Nov-00	Mar-01	Jul-02-01	Sept-01	Jan-06-02	Mar-02	Jul-05-02	Sept-02	
Acetone		< 3200 ^a	< 200	800	<5000	<500	<1000	58	<1300	<2,500	87	<2500	67	1600 ^B	44 ^B	<2500	27	18	15	33	29	25	<10	
Benzene		< 1000	< 100	26	<2500	<100	<500	8	<250	<500	25	<500	19	<250	27	<500	20	26	25	14	18	21	<1	
2-Butanone		< 2000	< 200	82	<5000	<500	<1000	< 10	<1300	<2,500	13	<2500	<10	<1300	<5	<2500	<5	6.5	<5	<10	<5	<10	<10	
Chloroform		< 1000	< 100	< 25	<2500	<100	<500	< 5	<250	<500	<1	<500	<5	<250	<1	<500	<5	<5	<5	<5	<5	<5	<5	
Isopropylbenzene (Cumene)		< 100	210	<2500	130	310 J	43	<250	<500	210	<500	130	<250	260 E	<500	150	140	180	120	170	190	38		
1,2-Dichloroethane		<1000	<100	<25	<2500	<100	<500	<5	<250	<500	1	<500	<5	<250	<1	<500	<5	<5	<5	<5	<5	<5	<5	
cis-1,2-Dichloroethene																				7.4	<5	9.3	<5	<5
trans-1,2-Dichloroethene	5	< 1000	< 100	< 25	<2500	<100	<500	< 5	<250	<500	<1	<500	<5	<250	<1	<500	<5	<5	<5	<5	<5	<5	<5	
Ethylbenzene	5	7,800	550	17,000 D	9,400	8,800	19,000	18,000	11,000	12,000	15,000 D	13,000	160	12,000	14,000 ^D	11,000	11,000	9,000	<5	7,900	<5	14,000	1,700	
4-Methyl-2-pentanone																			14	14	14	20	<10	<10
Methylene Chloride		< 1200 ^b	220	< 25	6,500	<100	<500	< 5	<250	1,300 D	<1	5,600 ^B	<5	1100 ^B	<1	1,600	<5	<5	<5	<5	<5	<5	<5	
Toluene	5	6,100	< 100	3,100 D	<2500	1,600	8,400	110,000	2,500	390	4,700 D	3,800	2,900 D	6,500	7,200 D	5,400	4,700	4,500	3,600	3,100	2,500	7,000	560	
Trichloroethene	5	< 1000	< 100	< 25	<2500	<100	<500	< 5	<250	540	2	<500	<5	<250	2	770	<5	<5	<5	<5	<5	<5	<5	
Vinyl Chloride	5	< 1000	< 100	< 25	<2500	<100	<500	< 5	<250	<500	<1	<500	<5	<250	<1	<500	<2	<2	<5	<5	<2	<2	<2	
Xylenes (total)	5	45,000	3,000	97,000 D	51,000	46,000	97,000 E	110,000	72,000	77,000	81,000 D	80,000	57,000 D	87,000	81,000 DE	74,000	72,000	65,000	63,000	64,000	88,000	101,000	14,200	

Polychlorinated Biphenyls (PCBs)	Site GW RAOs	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-00	Feb-00
Aroclor-1016	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10
Aroclor-1221	0.1	< 0.20	N/A	< 0.3	< 0.3	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.10	< 0.20
Aroclor-1232	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10
Aroclor-1242	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10
Aroclor-1248	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10
Aroclor-1254	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10
Aroclor-1260	0.1	0.092 J	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D,* = Analyzed with dilution See laboratory reports for dilution factors.

E = Concentration exceeded calibration range of instrument.

J = Estimated Concentration

N/A = Not analyzed

ug/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 8
RW-5S
Quarterly Sample Results (ug/L)

Volatile Compounds	Site GW RAOs	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00	Apr-00	Aug-00	Nov-00	Mar-01	Jul-02-01	Sept-01	Jan-06-02	Mar-02	Jul-05-02	Sept-02
Acetone		< 200	< 200	< 20	<20	<10	33 J	11	<5	<5	<5	<5	<10	<5	16 ^b	<500	<5	<5	<5	14	35	<10	<10
Benzene		< 100	< 100	< 10	<10	<2	<25	< 5	<1	<1	<1	<1	<5	<1	<1	<100	<1	<1	<1	<5	<5	29	<1
2-Butanone		< 200	440	< 20	<20	66	69	< 10	<5	<5	<5	<5	<10	<5	<1	<500	<5	<5	<5	<10	<5	<10	<10
Chloroform		< 100	< 100	< 10	<10	<2	<25	< 5	<1	<1	<1	<1	<5	<1	<1	<100	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)		< 100	< 10	<10	6	8 J	11	7	<1	4	3	<5	5	4	470	<5	<5	6.9	<5	15	51	<5	
cis-1,2-Dichloroethene																	<5	<5	180	<5	<5	<5	<5
trans-1,2-Dichloroethene	5	< 100	< 100	< 10	<10	<2	<25	< 5	<1	<1	<1	<1	<5	<1	<1	<100	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloropropane		<100	<100	<10	<10	<2	<25	<5	<1	<5	1	<1	<5	<1	<1	<100	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	5	620	420	35	<10	57	92	120	74	3	53	22	<5	41	29	16,000	35	20	91	<5	83	180	<5
Methylene Chloride		< 130 ^b	580	< 10	<10	8	<25	34	1	1 ^b	<1	2 ^b	<5	4 ^b	9	340	<5	<5	<5	<5	<5	<5	<5
Toluene	5	< 100	< 100	17	15	520	890	320	94	7	16	<1	<5	15	7	6,400	<5	12	370	<5	6.9	6.6	<5
Trichloroethene	5	< 100	< 100	< 10	<10	34	<25	7	<2 ^b	7	<1	<1	<5	<1	<1	<100	<5	<5	6.2	<5	<5	<5	<5
Vinyl Chloride	5	< 100	< 100	< 10	<10	<2	<25	< 5	<1	2	<1	<1	<5	<1	<1	<100	<2	<2	14	<5	<5	<2	<2
Xylenes (total)	5	2,000	2,300	410	86	520	640	570	330	26	660 D	63	12	82	68	73,000 D	188	231	445	11	274	35	7.3

Polychlorinated Biphenyls (PCBs)	Site GW RAOs	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00
Aroclor-1016	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1221	0.1	< 0.20	N/A	< 0.3	< 0.3	<0.1	<0.2	< 0.2	< 0.2	<0.20	<0.20	<0.10	<0.20
Aroclor-1232	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1242	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1248	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1254	0.1	< 0.10	N/A	0.28 J	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1260	0.1	0.042 J	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision
The November 2000 analytical data is considered suspect and non-representative of Recovery Well RW-5S.

B = Qualified as non-detect due to blank contamination

D = Analyzed with dilution. See laboratory reports for dilution factors

J = Estimated Concentration

N/A = Not analyzed

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 9
RW-1D
Quarterly Sample Results (ug/L)

Volatile Compounds	Site GW RAOs	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Apr-8-00	Apr-30-00	Aug-00	Nov-00	Apr-05-01	Jul-02-01	Sept-01	Jan-06-02	Mar-02	Jul-05-02	Sept-02	Dec-02	Feb-03	May-03	Aug-03	Dec-03	May-04	Dec-04
Acetone		< 19 ^b	< 10	< 10	37	<5	<10	< 10	<5	<5	<10	<10	14 ^b	<25	4 J ^e	<5	<5	<5	12	<5	<10	<10	<10	<10	<10	<10	<10	11	<10	
Benzene		< 5	< 5	< 5	<5	<1	<5	< 5	2	2	<2	6	23	17	4	14	3.7	6.0	3.8	<5	8.7	8.6	3.6	5.8	4.8	7.6	<1	<1	1.5	5.3
2-Butanone		< 10	< 10	< 10	<10	<5	<10	< 10	<5	<5	<10	<10	<5	<25	<5	<5	<5	<5	<10	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Chloroform		< 5	< 5	< 5	<5	<1	<5	< 5	<1	<1	<2	<2	1	<5	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Isopropylbenzene (Cumene)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	<2	<1	<5	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	<5
Isopropylbenzene	NA	< 5	< 5	<5	<1	<5	< 5	<1	<1	<2	<2	<1	<5	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	<5	<5	<5	<1	<5	< 5	3	4	2	54	85	53	11	41	10	12	12	<5	25	15	11	11	14	18	11	13	8.3	7.1
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,500	1,700	1,400	160	3,000	2,300	1,400	1,300	1,700	2,200	1,600	40	370	580	
trans-1,2-Dichloroethene	5	26	< 5	<5	2	2 J	< 5	4	4	18	43	110	84	17	52	14	12	17	<5	41	8.4	6.8	13	15	22	19	15	6.1	16	
Ethylbenzene	5	< 5	< 5	<5	<5	<1	<5	< 5	<1	<1	<2	<2	<1	<5	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Methylene Chloride		< 8 ^b	14	< 5	<5	3	2 J	< 5	<1	1 ^b	3	24 ^b	11 ^b	27 ^b	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Toluene	5	< 5	< 5	<5	<5	<1	<5	< 5	<1	<1	<2	<2	<1	<5	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Trichloroethene	5	< 5	< 5	<5	<5	<1	3 J	6	<10 ^b	19	<2	38	6	25	16	150	<5	14	73	<5	62	8.1	39	14	34	46	37	39	8.5	32
Vinyl Chloride	5	23	29	93	200	200	130	130	140 D	210	120	830 D	450 D	530	25	910 D	<2	110	130	380	52	<100	26	<2	11	<2	<2	<2	14	75
Xylenes (total)	5	< 5	< 5	<5	<5	<1	<5	< 5	<1	<1	<2	<2	<3	<15	<3	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	

Polychlorinated Biphenyls (PCBs)	Site GW RAOs	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00
Aroclor-1016	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1221	0.1	< 0.20	NA	< 0.3	< 0.3	<0.1	<0.2	< 0.2	< 0.2	<0.20	<0.20	<0.10	<0.20
Aroclor-1232	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1242	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1248	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1254	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1260	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D,* = Analyzed with dilution. See laboratory reports for dilution factors.

J = Estimated Concentration

NA = Not Analyzed

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 10
RW-2D
Quarterly Sample Results (ug/L)

Volatile Compounds	Site GW RAOs	Aug-95	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00	Apr-00	Aug-00	Nov-00	Mar-01	Jul-02-01	Sept-01	Jan-06-02	Mar-02	Jul-05-02	Sept-02	Dec-02	Feb-03	May-03	Aug-03	Dec-03	May-04	Dec-04	
Acetone		<10	<90 ^a	<100	<10	<500	<130/<130	<250	<10	<5	<5	<100	<10	120 ^B	<5	<5	<5	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Benzene		NA	< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	2	<20	<5	<10	3	4.7	6.5	7.2	7.5	9.2	9.9	9.1	9.5	9.7	11	9.2	8.3	11	11		
2-Butanone		NA	130	270	< 10	<500	<25/<25	<250	< 10	<5	<5	<5	<100	<10	<50	16	<5	<5	<5	<10	<5	28	<10	<10	<10	<10	<10	<10	<10	<10		
Chloroform		NA	< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	<1	<20	<5	<10	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Isopropylbenzene (Cumene)		NA	NA	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	<1	<20	<5	<10	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
1,1-Dichloroethene		NA	<5	<50	<5	<250	<25	>120	<5	5	6	<1	65	6	<10	12	25	17	16	25	25	33	<5	32	22	26	23	22	19	34	26	
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,200	4,200	7,900	7,800	12,000	50	7,900	4,300	6,000	5,000	4,500	3,900	6,400	4,900			
trans-1,2-Dichloroethene	5	200	320 D	< 50	< 5	<250	<25/<25	<120	< 5	5	5	5	94	7	<10	11	19	27	27	32	41	29	7.8	26	18	28	21	29	28	32	41	
Ethylbenzene	5	NA	< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	2	<20	7	<10	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Methylene Chloride		<10	< 12 ^a	340	< 5	<250	<25/<25	80 J	< 5	<1	1 ^B	<1	260 ^B	<5	410 ^B	<1	3.06 ^B	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene		NA	< 5	< 50	< 5	<250	<25	<120	< 5	1	1	1	<20	<5	<10	<1	1.04	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Toluene	5	NA	< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	<1	<20	<5	<10	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Trichloroethene	5	5,800	2,200 D	1,900 D	4,500 D	4,900	2,200/2,500	3,200	4,700	4,500 D	4,000	2,800 D	18,000 D	1,900 D	3,100	3,000 D	4,400 D	1,100	270	330	310	150	<5	210	110	400	840	800	400	760	1,100	
Vinyl Chloride	5	32	32	< 50	71	<250	83/<25	110 J	150	190	280	190 D	<20	210	150	180 D	120 D	530	610	1,300	1,100	1,700	55	1,300	1,800	1,100	960	1,000	1,300	1,800	650	
Xylenes (total)	5	<10	< 5	< 50	< 5	<250	<25/<25	<120	< 5	<2 ^B	2	13	<20	38	<30	<3	1.49	<5	<5	<5	6.9	<5	12	<5	<5	<5	<5	<5	<5	<5	<5	

Polychlorinated Biphenyls (PCBs)	Site GW RAOs	Aug-95	Jul-97	Oct-97	Dec-97	Mar-98	Jun-98	Sept-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00
Aroclor-1016	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1/<0.1	<0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1221	0.1	NA	< 0.20	NA	< 0.3	< 0.3	<0.1/<0.1	<0.2	< 0.2	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20
Aroclor-1232	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1/<0.1	<0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1242	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1/<0.1	<0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1248	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1/<0.1	<0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1254	0.1	<1	< 0.10	NA	< 0.3	< 0.3	<0.1/<0.1	<0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1260	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1/<0.1	<0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D,* = Analyzed with dilution. See laboratory reports for dilution factors.

** Sample results reported represent the highest values obtained from the 5.5 hr and 29 hr samples.

J = Estimated Concentration

NA = Not analyzed

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 11
Monitoring Well Analytical Results (ug/l)
December 2004

Volatile Organic Compounds	MW-2	MW-6	MW-7D	MW-7S	MW-8	MW-14D	MW-14S	MW-15D	MW-15S	MW-19D	MW-20	DUP (MW-22D)	EQ BLK	TRIP BLK	TB-02
Acetone	<10	<10	<10	16	470	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1.4	<1.0	9.0	<1.0	2.4	<1.0	1.8	1.7	<1.0	2.1	560	6.4	6.7	<1.0	<1.0
Bromodichloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Buylone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon Disulfide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon Tetrachloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
(Isopropylbenzene (Cumene))	7.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dibromoethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,3-Dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,4-Dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	430	20	20	<5	<5
cis-1,2-Dichloroethene	<5	<5	6,900	<5	96	<5	2,100	<5	11,000	<5	<5	28,000	3,200	3,300	22
trans-1,2-Dichloroethene	<5	<5	31	<5	7.4	<5	18	91	<5	<5	<5	280	21	17	<5
1,2-Dichloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	3,000	<5	<5	<5	<5
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Styrene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	71	<5	<5
Toluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	<5	<5	25	7.2	170	<5	2,700	1,100	6.9	<5	160,000	12,000	<5	<5	<5
Trichlorofluoromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	<2	<2	1,100	<2	15	<2	190	270	<2	760	<2	2,400	57	52	<2
Xylenes (total)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	22,000	<5	<5	<5	<5

ug/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 12
Monitoring Well MW-2
Groundwater Analytical Results (ug/l)

Volatile Organic Compounds	Site GW RAOs	Aug 1989	Feb 1990	Feb 1992	Feb 1992	Aug 1995	July 1997	Nov 1998	Nov 1999	Dec 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004
Acetone		<1000	<10000	<500	<31 ^B	<50		4.55	8.9	<10	<10	<10	<10	<10
Benzene		310J	<5000	NA	27	29	30	11	10	3.9	3.5	1.4		
Bromodichloromethane		<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
Chloroform		<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
Bromoform		<1000	<10000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
Bromomethane		<1000	<10000 ^R	<500	15	<50	<5	<1	<5	<5	<10	<5	<5	<5
Carbon Tetrachloride		<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
2-Butanone		<1000	<10000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
Chlorobenzene		<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
Chloroethane		<1000	<10000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
Chloroform		<500	<5000	NA	<5	<25	<1	<1	<5	<5	<5	<5	<5	<5
Chloromethane		<1000	<10000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)		NA	NA	NA	<5	26	24	13	15	6.6	5.1	7.5		
Dibromochloromethane		<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane		220 ^J	<5000	NA	7	<25	2	<1	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane		NA	NA	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene		<500	<5000	NA	<5	<25	<1	<1	<5	<5	<5	<5	<5	<5
1,2-Dichloroethene (total)		2,700	2,200 ^D	370	<5	<25	<1	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	5	1500	<2500	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
1,2-Dichloropropane		<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene		<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene		<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
Ethylbenzene	5	2,200	3,100	3,200	<2500 ^D	4,100	2,900	84	9	27	<5	<5	<5	<5
Methylene chloride		<500	<5000	NA	<10 ^B	<25	7	2.32 ^B	<5	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane		<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
Tetrachloroethene		<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
Toluene	5	220,000	93,000E	100,000 ^D	99,000	17,000	58	2	53 ^D	<5	<5	<5	<5	<5
1,1,1-Trichloroethane		<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
1,1,2-Trichloroethane		<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
Trichloroethene	5	<1000	340	<500	<5000	<500	<5	<1	<1	<5	<5	<5	<5	<5
Trichlorofluoromethane		NA	NA	NA	NA	NA	<1	<1	<5	<5	<5	<5	<5	<5
Vinyl chloride	5	<1000	<2500	<1000	<10000	180	9	<25	<1	<2	<2	<2	<2	<2
Xylenes (total)	5	13,000	18,000	16,000	13,000 ^D	21,000	12,000	90	8	82	<5	<5	<5	<5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision
 Feb 1992 values are RI values
 MW-2 was dry during the November 2000 sampling event.

B = Qualified as non-detect due to blank contamination

D = Analyzed with dilution, see laboratory reports for dilution factor.

E = Concentration exceeded calibration range for instrument

J = Estimated Concentration

NA = Not analyzed

R = Rejected

ug/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 13
Monitoring Well MW-6
Groundwater Analytical Results (ug/l)

Volatile Organic Compounds	Site GW RAOs	Aug 1989	Feb 1990	Feb 1992	Aug 1995	Jul 1997	Nov 1997	Nov 1998	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004
Acetone					NA	< 10	< 5	< 5	< 5	< 10	< 10	< 10	< 10
Benzene					NA	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1.0
Bromodichloromethane					NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5
Bromoform					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
Bromomethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
2-Butanone		10			NA	< 10	< 5	< 5	< 5	< 10	< 10	< 10	< 10
Carbon Tetrachloride					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
Chlorobenzene					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
Chloroethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
Chloroform					NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5	< 5
Chloromethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
Isopropylbenzene (Cumene)					NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5	< 5
Dibromochloromethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
1,1-Dichloroethane					NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5	< 5
1,2-Dichloroethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
1,1-Dichloroethene					NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5	< 5
1,2-Dichloroethene (total)		58	42		1,100	< 5	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene		5	210	74	NA	NA	NA	< 5	< 5	< 1	< 5	< 5	< 5
1,2-Dichloropropane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
Ethylbenzene		5	< 1	< 1	NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5	< 5
Methylene Chloride					NA	< 11 ^b	< 5	6	5.64 ^b	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
Tetrachloroethene					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
Toluene		5	< 1	< 1	NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
Trichloroethene		5	37	31	26	48	3,100	79	10	37	< 5	< 5	< 5
Trichlorofluoromethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5	< 5
Vinyl chloride		5	84	2	10	NA	6	8	< 1	48	< 2	< 2	< 2
Xylenes (total)		5	< 1	< 1	NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5	< 5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

NA = Not analyzed

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 14
Monitoring Well MW-7S
Groundwater Analytical Results (ug/l)

Volatile Organic Compounds	Site GW RAOs	Aug 1989	Feb 1990	Feb 1992	Aug 1995	Jul 1997	Nov 1998	Nov 1999	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004
Acetone		<17	NA	<19 ^B	<20	<5	<10	<5	<10	<10	<10	<10	16
Benzene		<5	NA	<5	<10	<1	9	<1	<1	<1	<1	<1	<1
Bromodichloromethane		<5	NA	NA	NA	<1	<5	<5	<5	<5	<5	<5	<5
Bromofluoromethane		<5	NA	NA	NA	<1	<5	<5	<5	<5	<5	<5	<5
Bromomethane		<10	NA	NA	NA	<1	<5	<5	<5	<5	<5	<5	<5
2-Butanone		<10 ^{UR}	<10	320	<20	<5	<10	<5	<10	<10	<10	<10	<10
Carbon Tetrachloride		<5	NA	NA	NA	<1	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene		<5	NA	NA	NA	<1	<5	<5	<5	<5	<5	<5	<5
Chloroethane		<10	NA	NA	NA	<1	<5	<5	<5	<5	<5	<5	<5
Chloroform		<5	NA	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5
Chloromethane		<10	NA	NA	NA	<1	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)		NA	NA	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane		<5	NA	NA	NA	<1	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane		<5	NA	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane		NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	<10	<5	<10	<1	35	<5	<5	<5	<5	<5	<5
1,2-Dichloroethene (total)		27	210	<5	<10	<1	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	5	69	8	NA	NA	NA	<1	7	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene		<5	NA	NA	NA	NA	<1	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene		<5	NA	NA	NA	NA	<1	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene		<5	NA	NA	<5	<10	1	<5	<5	<5	<5	<5	<5
Ethylbenzene	5	<10	<1	<5	NA	<11 ^B	<10	<1	37 ^B	<5	<5	<5	<5
Methylene chloride		<5	NA	NA	NA	NA	<1	<5	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane		<5	NA	NA	NA	NA	<1	<5	<5	<5	<5	<5	<5
Tetrachloroethene		<5	NA	NA	NA	NA	<1	<5	<5	<5	<5	<5	<5
Toluene	5	<10	<1	<5	NA	<5	<10	<1	7	<5	<5	<5	<5
1,1,1-Trichloroethane				<5	NA	NA	<1	<5	<5	<5	<5	<5	<5
1,1,2-Trichloroethane				<5	NA	NA	<1	<5	<5	<5	<5	<5	<5
Trichloroethene	5	1,100	140	30	220	30	160	8	900 ^D	7.6	7.5	6.6	7.2
Trichlorofluoromethane		5	<10	<1	<10	<5	<10	<1	<5	<5	<5	<5	<5
Vinyl chloride		5	<10	<1	<5	NA	<5	<10	<1	870 ^D	2.1	<2	<2
Xylenes (total)	5	<10	<1	<5	NA	<5	<10	2 ^J	2 ^J	<5	<5	<5	<5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

Feb 1992 values are RI values.

B = Qualified as non-detect due to blank contamination.

D = Analyzed with dilution, see laboratory reports for dilution factor.

J = Estimated Concentration

NA = Not analyzed

R = Rejected

U = Non-detect

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 15
Monitoring Well MW-7D
Groundwater Analytical Results (ug/l)

Volatile Organic Compounds	Site GW RAOs	Feb 1990	Feb 1992	Aug 1995	July 1997	Nov 3 1997	Nov 24 1998	Nov 1999	Nov 2000	Nov DUP	Dec 2001	Dec 2001 DUP	Dec 2002	Dec 2002 DUP	Nov 2003	Nov 2003 DUP	Dec 2004
Acetone		<12	NA	<7700 ^a	<100	<10	<5	11 ^b	12 ^b	<5	<5	<10	<10	<10	<10	<10	<10
Benzene		<5	NA	<5	<50	<5	<1	2 ^j	<5	<5	<5	5.3	5.4	5.8	5.8	9	5
Bromodichloromethane		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane		<10	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Butanone		<10 ^{i,R}	<10	11,000	<100	<10	<5	<10	<10	<5	<5	<5	<10	<10	<10	<10	<10
Carbon Tetrachloride		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane		<10	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform		<5	NA	<5	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane		<10	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)		NA	NA	<5	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane		<5	NA	<5	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane		NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	<10	<5	<50	43	22	2 ^j	10	7.9	7.4	<5	5.1	6.1	5.1	12	5
1,2-Dichloroethene (total)		3 ^j	NA	6	NA	NA	NA	NA	NA	NA	NA	<5	<5	NA	NA	NA	5
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	3,800	4,100	2,800	2,800	2,500	2,100	6900	5
trans-1,2-Dichloroethene		5	48	NA	NA	NA	NA	NA	NA	12	18	28	13	11	12	31	5
1,2-Dichloropropane		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene		<5	NA	<5	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene		5	<1	<5	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene chloride		<5	NA	<12 ^b	<50	<5	6	38 ^b	14 ^b	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene		<5	<10	NA	<50	<5	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene		5	<1	<5	<10	<5	<50	2	<5	1 ^j	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane		<5	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2-Trichloroethane		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene		5	940	34	25	6	340,000	26,000	17,000 ^d	150	7,100 ^d	1,800	1,700	38	37	<5	<5
Trichlorofluoromethane		5	<1	43	<10	30	<50	20	51	270 ^d	48	520	540	1,600	1,600	860	820
Vinyl chloride		5	<1	<5	NA	<5	<50	<5	<1	<5	18	<5	10	<5	16	<5	<5
Xylenes (total)		5	<1	<5	NA	<5											

Notes: Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

Feb 1992 values are RI values.

B = Qualified as non-detect due to blank contamination

D = Analyzed with dilution, see laboratory reports for dilution factor.

J = Estimated Concentration

NA = Not analyzed

R = Rejected

U = Non-detect

ug/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 16
Monitoring Well MW-8
Groundwater Analytical Results (ug/l)

Volatile Organic Compounds	Site GW RAOs	Aug 1989	Feb 1990	Feb 1992	July 1997	Nov 1998	Nov 1999	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004
Acetone				< 140 ^B	< 100	< 5	10	< 5	< 10	< 10	< 10	470
Benzene				< 5	< 50	< 1	< 5	< 1	< 1	< 1	< 1	2.4
Bromodichloromethane				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Bromform				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone				97	< 100	< 5	3 JB	< 5	< 10	< 10	< 10	< 10
Carbon Tetrachloride				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Chloroethane				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform				< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Chloronethane				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Isopropylbenzene (Cumene)				< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Dibromo-chloromethane				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane				< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene				< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethene (total)				21	< 50	NA	NA	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene				NA	NA	NA	NA	86	50	65	96	
trans-1,2-Dichloroethene		5	26	2	NA	< 1	2	< 5	< 5	< 5	7.4	
1,2-Dichloropropane				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene		5	< 1	< 1	< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5
Methylene chloride				< 12 ^B	< 50	3	16 ^B	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Toluene		5	< 1	< 1	< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene		5	150	17	28	640	18	31	75	< 5	170	
Trichlorofluoromethane				NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl chloride		5	4	< 1	< 5	< 50	5	< 5	15	25	15	
Xylenes (total)		5			< 5	< 50	5	< 5	< 5	< 5	< 5	< 5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

J = Estimated Concentration

NA = Not analyzed

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 17
Monitoring Well MW-14S
Groundwater Analytical Results (ug/l)

Volatile Organic Compounds	Site GW RAOs	Feb 1992	July 1992	Aug 1995	Jul 1997	Nov 1998	Nov 1999	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004
Acetone				NA	< 13 ^b	< 200	< 5	< 5	< 10	< 10	< 10	< 10
Benzene				NA	< 5	< 100	< 1	3 ^j	< 1	< 1	2.5	1.8
Bromodichloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5
Bromoform				NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5
Bromomethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5
2-Butanone	200			NA	< 10	< 200	< 5	< 10	< 5	< 10	< 10	< 10
Carbon Tetrachloride				NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5
Chlorobenzene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5
Chloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5
Chloroform				NA	< 5	< 100	< 1	< 5	< 5	< 5	< 5	< 5
Chloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5
Isopropylbenzene (Cumene)				NA	< 5	< 100	< 1	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane				NA	< 5	< 100	< 1	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane				NA	NA	NA	NA	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethylene	19	45	42	< 100	9	29	< 5	7.7	7.7	39	28	
1,2-Dichloroethylene (total)	440	840	NA	1,800	< 100	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene				NA	NA	NA	NA	< 5	850	3,200	2,100	
trans-1,2-Dichloroethene	5			NA	NA	NA	7	91	99	7	23	18
1,2-Dichloropropane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	5		< 10	< 5	< 100	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride	11	2	NA	< 10 ^b	< 100	10	23 ^b	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane			NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene			NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	5		< 10	< 5	< 100	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane			NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane		1,200	450	920	2,900	1,400	190 ^d	4,200 ^d	110	470	2,700	2,700
Trichloroethene			NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane			290	170	58	170	51	100	2.4	28	190	190
Vinyl chloride			< 10	< 5	< 100	< 1	< 5	< 5	< 5	< 5	< 5	22
Xylenes (total)	5											

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D = Analyzed with dilution, see laboratory reports for dilution factor.

J = Estimated Concentration

NA = Not analyzed

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 18
Monitoring Well MW-14D
Groundwater Analytical Results (ug/l)

Volatile Organic Compounds	Site GW RAOs	Feb 1992	July 1992	Aug 1995	Jul 1997	Nov 1998	Nov 1999	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004
Acetone				NA	<23 ^B	<10	<5	<10	<5	<10	<10	<10
Benzene				NA	<5	<1	<5	<1	<1	<1	<1	<1.0
Bromochromethane				NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform				NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane				NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	10	<10	17	<10	5 ^J	5 ^J	<5	<10	<10	<10	<10	<10
Carbon Tetrachloride				NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene				NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane				NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform				NA	<5	<5	<1	<5	<5	<5	<5	<5
Chloromethane				NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)				NA	<5	<5	<1	<5	<5	<5	<5	<5
Dibromochloromethane				NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane				NA	<5	<5	<1	<5	<5	<5	<5	<5
1,2-Dichloroethane				NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene				<10	<5	<5	<1	<5	<5	<5	<5	<5
1,2-Dichloroethene (total)	15	3	<10	<5	<5	<1	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene				NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	5			NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane				NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene				NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene				NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	5	1	1	<10	<5	<5	<1	<5	<5	<5	<5	<5
Methylene chloride		0.7	NA	<9 ^B	<5	1	26 ^B	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane			NA	NA	NA	<1	<5	<5	<5	<5	<5	<5
Tetrachloroethene			<10	NA	NA	<1	<5	<5	<5	<5	<5	<5
Toluene	5		<10	<5	<5	<1	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane			NA	NA	NA	<1	<5	<5	<5	<5	<5	<5
1,1,2-Trichloroethane			NA	NA	NA	<1	<5	<5	<5	<5	<5	<5
Trichloroethene	5	28	5	1	<5	<5	2	<5	<5	<5	<5	<5
Trichlorofluoromethane			NA	NA	NA	<1	<5	<5	<5	<5	<5	<5
Vinyl chloride	5	20	29	13	40	<5	<1	<5	<2	22	<2	<5
Xylenes (total)	5	8		<10	<5	<5	<1	<5	<5	<5	<5	<5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

J = Estimated Concentration

NA = Not analyzed

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 19
Monitoring Well MW-15S
Groundwater Analytical Results (ug/l)

Volatile Organic Compounds	Site GW RAOs	Feb 1992	July 1992	Aug 1995	Jul 1997	Nov 1998	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004
Acetone			NA	<17 ^B	<10	<5	13 ^B	<5	<10	<10	<10
Benzene			NA	<5	<5	<1	<5	<1	<1	<1	<1.0
Bromodichloromethane			NA	NA	NA	<1	<5	<5	<5	<5	<5
Bromoform			NA	NA	NA	<1	<5	<5	<5	<5	<5
Bromomethane			NA	NA	NA	<1	<5	<5	<5	<5	<5
2-Butanone			<10	<10	<10	<5	5 ^J	<5	<10	<10	<10
Carbon Tetrachloride			NA	NA	NA	<1	<5	<5	<5	<5	<5
Chlorobenzene			NA	NA	NA	<1	<5	<5	<5	<5	<5
Chloroethane			NA	NA	NA	<1	<5	<5	<5	<5	<5
Chloroform			NA	<5	<5	<1	<5	<5	<5	<5	<5
Chloromethane			NA	NA	NA	<1	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)			NA	<5	<5	<1	<5	<5	<5	<5	<5
Dibromochloromethane			NA	NA	NA	<1	<5	<5	<5	<5	<5
1,1-Dichloroethane			NA	<5	<5	<1	<5	<5	<5	<5	<5
1,2-Dichloroethane			NA	NA	NA	NA	<5	<5	<5	<5	<5
1,1-Dichloroethene			<10	<5	<5	<1	<5	<5	<5	<5	<5
1,2-Dichloroethene (total)		<5	76	68	<5	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene			NA	NA	NA	NA	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	5		NA	NA	NA	<1	<5	<5	<5	<5	<5
1,2-Dichloropropane			NA	NA	NA	<1	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene			NA	NA	NA	<1	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene			NA	NA	NA	<1	<5	<5	<5	<5	<5
Ethylbenzene	5		<10	<5	<5	<1	<5	<5	<5	<5	<5
Methylene chloride			NA	<10 ^B	<5	1	22 ^B	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane			NA	NA	NA	<1	<5	<5	<5	<5	<5
Tetrachloroethene			<10	NA	NA	<1	<5	<5	<5	<5	<5
Toluene	5		<10	<5	<5	<1	<5	<5	<5	<5	<5
1,1,1-Trichloroethane			NA	NA	NA	<1	<5	<5	<5	<5	<5
1,1,2-Trichloroethane			NA	NA	NA	<1	<5	<5	<5	<5	<5
Trichloroethene	5	<5	0.6	140	97	15	24	<5	<5	13	6.9
Trichlorofluoromethane				NA	NA	<1	<5	<5	<5	<5	<5
Vinyl chloride	5		<10	<5	<5	<1	<5	<2	<2	<2	<2
Xylenes (total)	5		<10	<5	<5	<1	<5	<5	<5	<5	<5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

J = Estimated Concentration

NA = Not analyzed

ug/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 20
Monitoring Well MW-15D
Groundwater Analytical Results (ug/l)

Volatile Organic Compounds	Site GW RAOs	Feb 1992	July 1992	Aug 1995	Jul 1997	Nov 1998	Nov 1999	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004
Acetone				NA	<17 ^b	<20	<5	7 ^{JB}	<5	<10	<10	<10
Benzene				NA	NA	<1	1 ^J	<1	1.1	<1	1.1	1.7
Bromodichloromethane				NA	NA	<1	<5	<5	<5	<5	<5	<5
Bromoform				NA	NA	<1	<5	<5	<5	<5	<5	<5
Bromomethane				NA	NA	<1	<5	<5	<5	<5	<5	<5
2-Butanone	2	<10	<10	<20	<5	5 ^J	<5	<10	<10	<10	<10	<10
Carbon Tetrachloride				NA	NA	<1	<5	<5	<5	<5	<5	<5
Chlorobenzene	5	<10	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5
Chloroethane				NA	NA	<1	<5	<5	<5	<5	<5	<5
Chloroform				NA	<5	<10	<1	<5	<5	<5	<5	<5
Chloromethane				NA	NA	<1	<5	<5	<5	<5	<5	<5
(Isopropylbenzene (Cumene))				NA	NA	<1	<5	<5	<5	<5	<5	<5
Dibromochloromethane				NA	NA	<1	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	1	NA	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane				NA	NA	<1	<5	<5	<5	<5	<5	<5
1,1,1-Dichloroethene				<10	<5	<10	8	26	24	48	62	59
1,2-Dichloroethene (total)	130	56	33	29	<10	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene				NA	NA	NA	NA	NA	2,000	3,700	8,900	11,000
trans-1,2-Dichloroethene	5			NA	NA	9	100	30	35	91	91	91
1,2-Dichloropropane				NA	NA	<1	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene				NA	NA	<1	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	5		28	6	<10	5	<5	<5	<5	<5	<5	<5
Ethylenedibenzene	5		<10	<5	<10	<1	<5	<5	<5	<5	<5	<5
Methylene chloride				NA	<9 ^b	<10	1	23 ^B	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	5		<10	<5	<10	<1	<5	<5	<5	<5	<5	<5
Tetrachloroethene				NA	NA	<1	<5	<5	<5	<5	<5	<5
Toluene				NA	NA	<1	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane				NA	NA	<1	<5	<5	<5	<5	<5	<5
1,1,2,Trichloroethane				NA	<5	<10	<1	<5	<5	<5	<5	<5
Trichloroethene	600			NA	<5	<10	<1	100	39	870	1,400	1,100
Trichlorofluoromethane				NA	NA	<1	<5	<5	<5	<5	<5	<5
Vinyl chloride	5	4	2	<5	39	58	190 ^D	190	190	280	270	
Xylenes (total)	5			NA	NA	<1	<5	<5	<5	<5	<5	<5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D = Analyzed with dilution, see laboratory reports for dilution factor

J = Estimated Concentration

NA = Not analyzed

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 21
Monitoring Well MW-19D
Groundwater Analytical Results (ug/l)

Volatile Organic Compounds	Site GW RAOs	Mar 1993	Aug 1995	Jul 1997	Nov 1998	Nov 1999	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004
Acetone		NA	< 10	< 100	< 5	< 10	< 5	< 10	< 10	< 10	< 10
Benzene		NA	< 5	< 50	< 1	< 5	< 1	< 1	< 1	< 1	< 1.0
Bromodichloromethane		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone		NA	< 10	< 100	< 5	< 10	< 5	< 10	< 10	< 10	< 10
Carbon Tetrachloride		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Chloroethane		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform		NA	< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Chloromethane		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Isopropylbenzene (Cumene)		NA	< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane		NA	< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene		< 20	< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethene (total)		< 20	< 5	< 50	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	NA	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	5	NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloropropane		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	5	< 20	< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride		NA	< 8 ^B	< 50	5	15 ^B	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene		< 20	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	5	< 20	< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	5	< 10	2	< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane		NA	NA	NA	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl chloride	5	6	410	830	1,100	1,500 ^D	1,300 ^D	1,200	660	600	760
Xylenes (total)	5		< 20	< 5	< 50	< 1	< 5	< 5	< 5	< 5	< 5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D = Analyzed with dilution, see laboratory reports for dilution factor.

NA = Not analyzed

ug/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 22
Monitoring Well MW-20
Groundwater Analytical Results (ug/l)

Volatile Organic Compounds	Site GW RAOs	Mar 1993	Jul 1997	Nov 1998	Nov 1998	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004
Acetone		NA	< 10	<10	<1000	10	5.6	<10	34	<10
Benzene		NA	< 5	<5	<200	3 ^J	2.3	2	2.2	2.1
Bromodichloromethane		NA	NA	NA	>200	<5	<5	<5	<5	<5
Bromoform		NA	NA	NA	>200	<5	<5	<5	<5	<5
Bromomethane		NA	NA	NA	>200	<5	<5	<5	<5	<5
2-Butanone		NA	< 10	<10	<1000	<10	<5	<10	14	<10
Carbon Tetrachloride		NA	NA	NA	>200	<5	<5	<5	<5	<5
Chlorobenzene		NA	NA	NA	>200	<5	<5	<5	<5	<5
Chloroethane		NA	NA	NA	>200	<5	<5	<5	<5	<5
Chloroform		NA	< 5	<5	>200	<5	<5	<5	<5	<5
Chloromethane		NA	NA	NA	>200	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)		NA	< 5	350	340	<1000	5	350	530	400
Dibromochloromethane		NA	NA	NA	>200	<5	<5	<5	<5	<5
1,1-Dichloroethane		NA	< 5	<5	>200	<5	<5	<5	<5	<5
1,2-Dichloroethane		NA	NA	NA	NA	<5	<5	<5	<5	<5
1,1-Dichloroethene		NA	< 5	<5	>200	<5	<5	<5	<5	<5
1,2-Dichloroethene (total)		NA	< 5	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene		NA	NA	NA	NA	NA	<5	<5	<5	<5
trans-1,2-Dichloroethene	5	NA	NA	NA	>200	<5	<5	<5	<5	<5
1,2-Dichloropropane		NA	NA	NA	>200	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene		NA	NA	NA	>200	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene		NA	NA	NA	>200	<5	<5	<5	<5	<5
Ethylbenzene		5	3,100	480	3,300	4,800	11,000 ^D	5,000	2,300	4,800
Methylene chloride		NA	< 10 ^B	<5	440	12 ^B	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane		NA	NA	NA	>200	<5	<5	<5	<5	<5
Tetrachloroethene		NA	NA	NA	>200	<5	<5	<5	<5	<5
Toluene	5	790	14	2,500	5,800	4,700 ^D	1,500	440	3,100	1,900
1,1,1-Trichloroethane		NA	NA	NA	>200	<5	<5	<5	<5	<5
1,1,2-Trichloroethane		NA	NA	NA	>200	<5	<5	<5	<5	<5
Trichloroethene	5	NA	< 5	1,700	>200	<5	<5	<5	<5	<5
Trichlorofluoromethane		NA	NA	NA	>200	<5	<5	<5	<5	<5
Vinyl chloride	5	NA	< 5	<5	>200	<5	<2	<2	<2	<2
Xylenes (total)	5	20,000	5,100	26,000	31,000	68,000 ^D	33,900	18,500	35,800	22,000

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detected due to blank contamination

D = Analyzed with dilution, see laboratory reports for dilution factor.

J = Estimated Concentration

NA = Not analyzed

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 23
Monitoring Well MW-21D
Groundwater Analytical Results (ug/l)

Volatile Organic Compounds	Site GW RAOs	Dec 2003	Dec 2004
Acetone		<10	<10
Benzene		760	560
Bromodichloromethane		<5	<5
Bromoform		<5	<5
Bromomethane		<5	<5
2-Butanone		<10	<10
Carbon Tetrachloride		<5	<5
Chlorobenzene		<5	<5
Chloroethane		<5	<5
Chloroform		<5	<5
Chloromethane		<5	<5
Isopropylbenzene (Cumene)		<5	<5
Dibromochloromethane		<5	<5
1,1-Dichloroethane		<5	<5
1,2-Dichloroethane		<5	<5
1,1-Dichloroethene		630	430
cis-1,2-Dichloroethene		41,000	28,000
trans-1,2-Dichloroethene	5	370	260
1,2-Dichloropropane		<5	<5
cis-1,3-Dichloropropene		<5	<5
trans-1,3-Dichloropropene		<5	<5
Ethylbenzene	5	<5	<5
Methylene chloride		<5	<5
1,1,2,2-Tetrachloroethane		<5	<5
Tetrachloroethene		<5	<5
Toluene	5	21	27
1,1,1-Trichloroethane		<5	<5
1,1,2-Trichloroethane		<5	<5
Trichloroethene	5	300,000	160,000
Trichlorofluoromethane		<5	<5
Vinyl chloride	5	5,800	2,400
Xylenes (total)	5	<5	<5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D = Analyzed with dilution, see laboratory reports for dilution factor.

J = Estimated Concentration

NA = Not analyzed

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 24
Monitoring Well MW-22D
Groundwater Analytical Results (ug/l)

Volatile Organic Compounds	Site GW RAOs	Dec 2003	Dec 2004	Dec 2004 DUP
Acetone		<10	<10	<10
Benzene		10	6.4	6.7
Bromodichloromethane		<5	<5	<5
Bromoform		<5	<5	<5
Bromomethane		<5	<5	<5
2-Butanone		<10	<10	<10
Carbon Tetrachloride		<5	<5	<5
Chlorobenzene		<5	<5	<5
Chloroethane		<5	<5	<5
Chloroform		<5	<5	<5
Chloromethane		<5	<5	<5
Isopropylbenzene (Cumene)		<5	<5	<5
Dibromochloromethane		<5	<5	<5
1,1-Dichloroethane		<5	<5	<5
1,2-Dichloroethane		<5	<5	<5
1,1-Dichloroethene		48	20	20
cis-1,2-Dichloroethene		3,400	3,200	3,300
trans-1,2-Dichloroethene	5	15	21	17
1,2-Dichloropropane		<5	<5	<5
cis-1,3-Dichloropropene		<5	<5	<5
trans-1,3-Dichloropropene		<5	<5	<5
Ethylbenzene	5	<5	<5	<5
Methylene chloride		<5	<5	<5
1,1,2,2-Tetrachloroethane		<5	<5	<5
Tetrachloroethene		<5	<5	<5
Toluene	5	<5	<5	<5
1,1,1-Trichloroethane		<5	<5	<5
1,1,2-Trichloroethane		<5	<5	<5
Trichloroethene	5	17,000	12,000	12,000
Trichlorofluoromethane		<5	<5	<5
Vinyl chloride	5	170	57	52
Xylenes (total)	5	<5	<5	<5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D = Analyzed with dilution, see laboratory reports for dilution factor.

J = Estimated Concentration

NA = Not analyzed

µg/l = Micrograms per liter

< = Below minimum laboratory reporting limit

Table 25

**2004 Pre-Carbon Analytical Results
POTW Monthly Monitoring Results (ug/l)**

Compound	Jan-31-04	Feb-27-04	Mar-30-04	Apr-30-04	May-27-04	June-25-04	Jul-04	Aug-29-04	Sept-29-04	Oct-31-04	Nov-04	Dec-04
Acetone	31	<10	<10	<10	<10	<10	NS	<10	<10	<10	<10	<10
Benzene	6.4	6.7	5.3	5.6	4.7	5.7	NS	10	8.1	11	5.2	8.1
2-Butanone	<10	<10	<10	<10	<10	NS	<10	<10	<10	<10	<10	<10
Chloroform	<5	<5	<5	<5	<5	NS	<5	<5	<5	<5	<5	<5
Chloromethane	<5	<5	<5	<5	<5	NS	<5	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)	<5	<5	<5	<5	<5	NS	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	15	25	10	12	14	14	NS	25	22	25	11	20
cis-1,2-Dichloroethene	<5	4100	2500	3,000	2600	3,200	NS	4,700	4,400	5,300	2,600	4,100
trans-1,2-Dichloroethene	14	19	10	16	13	17	NS	49	33	36	12	44
Ethylbenzene	<5	5.3	6.3	<5	<5	NS	<5	<5	<5	<5	<5	<5
Methylene Chloride	<5	<5	<5	<5	<5	NS	<5	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5	NS	<5	<5	<5	<5	<5	<5
Trichloroethene	390	770	420	620	680	690	NS	750	640	960	510	1,000
Vinyl Chloride	620	1000	440	530	530	590	NS	800	880	720	350	620
Total Xylenes	<5	38	78.1	6	<5	<5	NS	<5	<5	<5	<5	<5
Pre-Carb TOTAL VOCs	1,076.4	5,966.0	3,469.7	4,189.6	3,841.7	4,516.7	NA	6,334.0	5,983.1	7,052.0	3,488.2	5,732.1

Notes:

POTW Discharge Limit = 2,130 ug/L Total Toxic Organics (VOCs)

The groundwater recovery and pre-treatment system was shut down between July 15 and 26, 2004 for carbon change-out and system maintenance No sampling was conducted for this month.

August 2004 Primary Carbon and Secondary Carbon (Post Carb) samples were broken during shipment to the laboratory.

Primary Carbon taken offline on December 17, 2004 due to clogging and Secondary Carbon moved to Primary Position

Spare Carbon prepared between December 17 and 18, 2004 and placed in Secondary Position on December 19, 2004

Pre-Carbon sample results represent system influent.

Primary Carbon sample results represent effluent from the first carbon vessel in the two (2) carbon vessel system.

Post-Carbon sample results represent system effluent from the secondary carbon vessel (or the third carbon vessel if used) to the POTW

Post-Carbon sample is a laboratory prepared composite of four (4) grab samples taken at 30-minute intervals.

NS = Not Sampled

NA = Not Analyzed

µg/l = Micrograms per Liter

Table 26

**2004 Primary Carbon Effluent
POTW Monthly Monitoring Results (ug/l)**

Compound	Jan-31-04	Feb-27-04	Mar-30-04	Apr-30-04	May-27-04	June-25-04	Jul-04	Aug-29-04	Sept-29-04	Oct-31-04	Nov-04	Dec-04
Acetone	<10	<10	<10	<10	<10	<10	NS	NA	<10	<10	<10	<10
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NA	<1.0	<1.0	<1.0	<1.0
2-Butanone	<10	<10	<10	<10	<10	<10	NS	NA	<10	<10	<10	<10
Chloroform	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Chloromethane	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Isopropylbenzene (Cumene)	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
1,1-Dichloroethene	<5	<5	<5	<5	5.2	<5	NS	NA	<5	<5	<5	<5
cis-1,2-Dichloroethene	130	480	690	1200	2100	37	NS	NA	380	980	550	6.8
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Methylene Chloride	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Trichloroethene	<5	23	<5	9.9	14	<5	NS	NA	8.8	51	11	<5
Vinyl Chloride	1300	1800	920	860	870	1300	NS	NA	930	770	590	360
Total Xylenes	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Primary TOTAL VOCs	1,430.0	2,083.0	1,610.0	2,069.9	2,989.2	1,337.0	NA	NA	1,318.8	1,781.0	1,151.0	388.8

Notes:

POTW Discharge Limit = 2.130 µg/l Total Toxic Organics (VOCs)

The groundwater recovery and pre-treatment system was shut down between July 15 and 26, 2004 for carbon change-out and system maintenance. No sampling was conducted for this month.
 August 2004 Primary Carbon and Secondary Carbon (Post-Carb) samples were broken during shipment to the laboratory
 Primary Carbon taken offline on December 17, 2004 due to clogging and Secondary Carbon moved to Primary Position
 Spare Carbon prepared between December 17 and 18, 2004 and placed in Secondary Position on December 19, 2004

Pre-Carbon sample results represent system influent

Primary Carbon sample results represent effluent from the first carbon vessel in the two (2) carbon vessel system.

Post-Carbon sample results represent system effluent from the secondary carbon vessel (or the third carbon vessel if used) to the POTW

Post-Carbon sample is a laboratory prepared composite of four (4) grab samples taken at 30-minute intervals.

NS = Not Sampled

NA = Not Analyzed

µg/l = Micrograms per Liter

Table 27

**2004 Secondary Carbon Effluent (Post Carb)
POTW Monthly Monitoring Results (ug/l)**

Compound	Jan-31-04 Post Carb	Feb-27-04 Post Carb	Mar-30-04 Post Carb	Apr-30-04 Post Carb	May-27-04 Post Carb	June-25-04 Post Carb	Jul-04 Post Carb	Aug-29-04 Post Carb	Sept-29-04 Post Carb	Oct-31-04 Post Carb	Nov-30-04 Post Carb	Dec-04 Post Carb
	<10	<10	<10	<10	<10	<10	<10	NS	NA	<10	<10	<10
Acetone	<10	<10	<10	<10	<10	<10	NS	NA	<10	<10	<10	<10
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NA	<1.0	<1.0	<1.0	<1.0
2-Butanone	<10	<10	<10	<10	<10	<10	NS	NA	<10	<10	<10	<10
Chloroform	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Chloromethane	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Isopropylbenzene (Cumene)	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
1,1-Dichloroethene	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
cis-1,2-Dichloroethene	32	28	28	30	27	280	NS	NA	15	13	6.8	270
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Methylene Chloride	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Trichloroethene	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Vinyl Chloride	29	<5	350	430	1700	<2	NS	NA	9.7	20	91	<2
Total Xylenes	<5	<5	<5	<5	<5	<5	NS	NA	<5	<5	<5	<5
Secondary TOTAL VOCs	61.0	28.0	378.0	460.0	1,727.0	280.0	NS	NA	24.7	33.0	97.8	270.0

Notes:

POTW Discharge Limit = 2,130 ug/L Total Toxic Organics (VOCs)

The groundwater recovery and pre-treatment system was shut down between July 15 and 26, 2004 for carbon change-out and system maintenance. No sampling was conducted for this month.

August 2004 Primary Carbon and Secondary Carbon (Post Carb) samples were broken during shipment to the laboratory.

Primary Carbon taken offline on December 17, 2004 due to clogging and Secondary Carbon moved to Primary Position on December 19, 2004 Spare Carbon prepared between December 17 and 18, 2004 and placed in Secondary Position on December 19, 2004

Pre-Carbon sample results represent system influent.

Primary Carbon sample results represent effluent from the first carbon vessel in the two (2) carbon vessel system.

Post-Carbon sample results represent system effluent from the secondary carbon vessel (or the third carbon vessel if used) to the POTW.

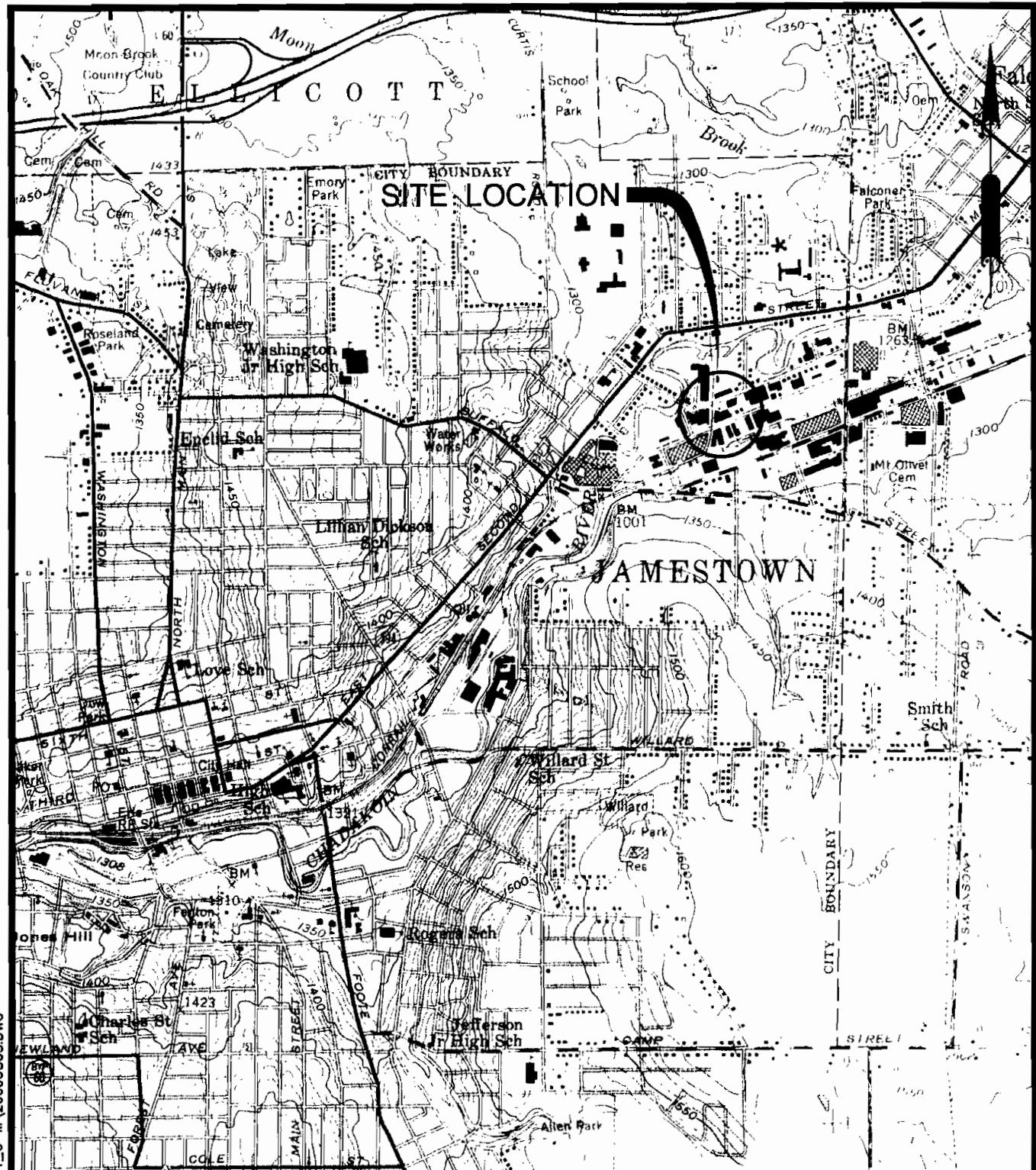
Post-Carbon sample is a laboratory prepared composite of four (4) grab samples taken at 30-minute intervals.

NS = Not Sampled

NA = Not Analyzed

ug/l = Micrograms per Liter

FIGURES



FILE: \ESSEX\HOP\PMP\2004-0-M\2000USGS.DWG



0 2000 4000
SCALE IN FEET

REFERENCE:

BASE MAP IS A PORTION OF THE U.S.G.S. 7.5 MINUTE TOPOGRAPHIC SERIES JAMESTOWN, NY QUADRANGLE. DATED: 1954, PHOTOREVISED: 1979. SCALE: 1" = 2000', CONTOUR INTERVAL IS 10 FEET.

00
04
00
05
00
05
KG

URS

2004 ANNUAL PERFORMANCE MONITORING REPORT SITE LOCATION MAP

ESSEX/HOPE SITE

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

JAMESTOWN, NY

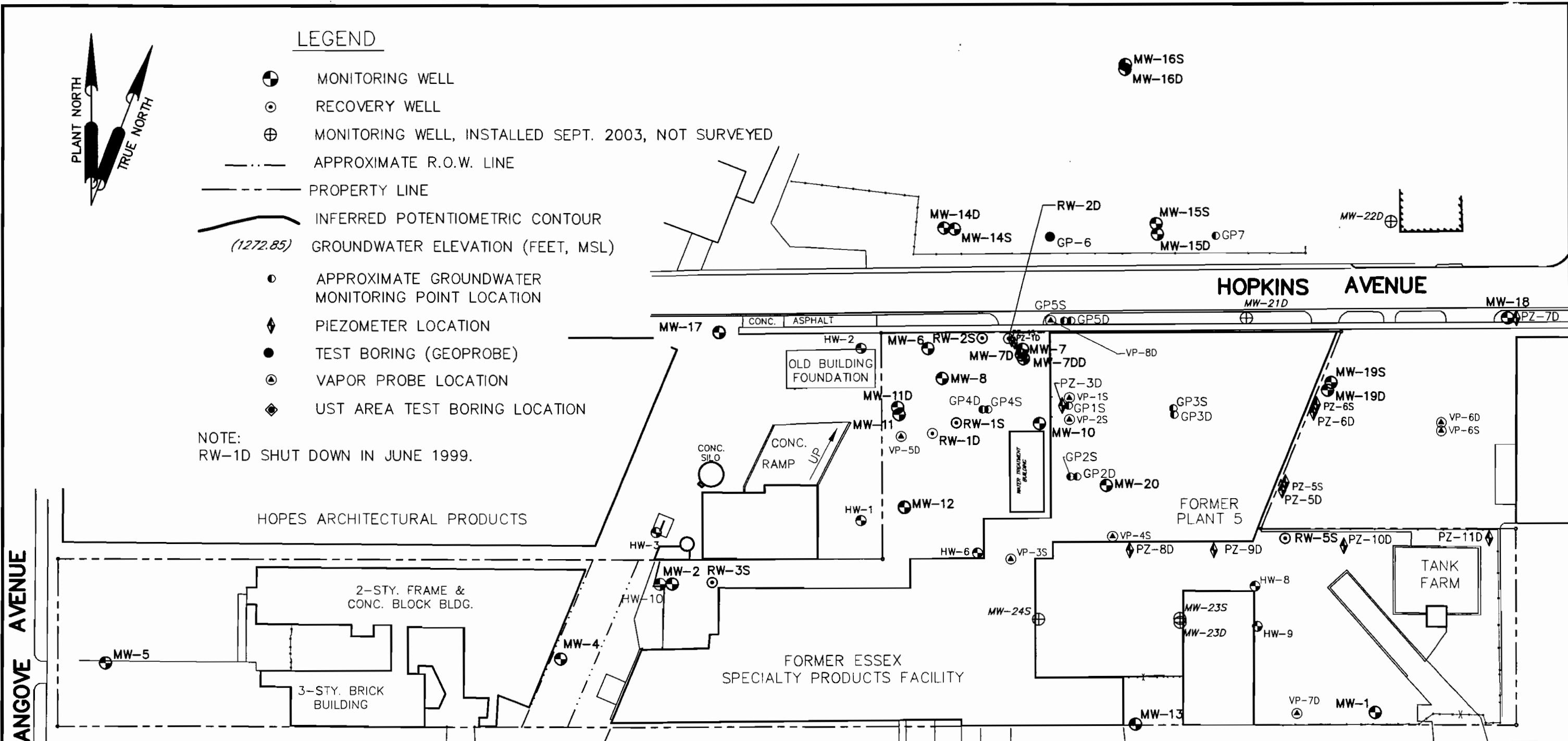
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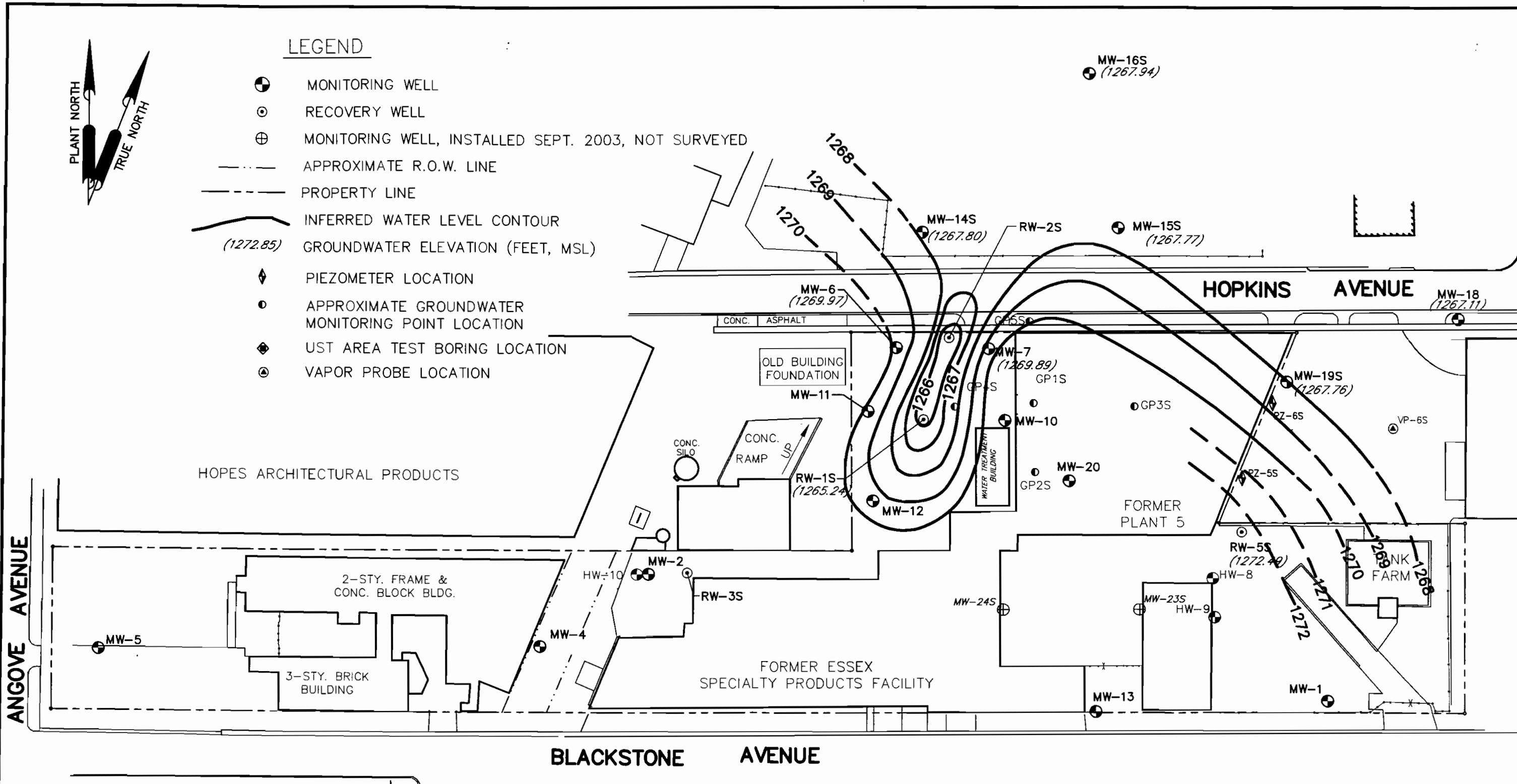
SCALE: AS SHOWN

FIGURE
NUMBER

1

REV
0

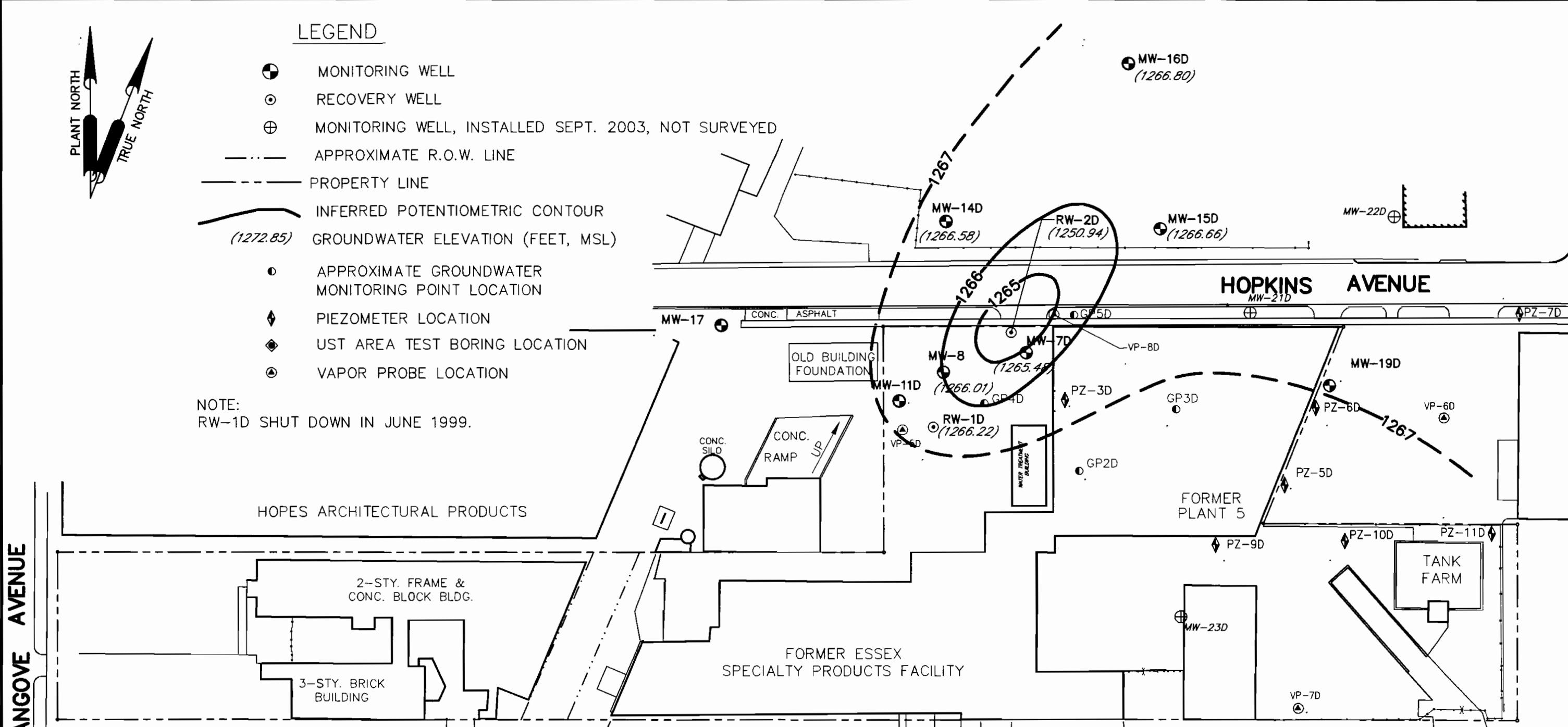




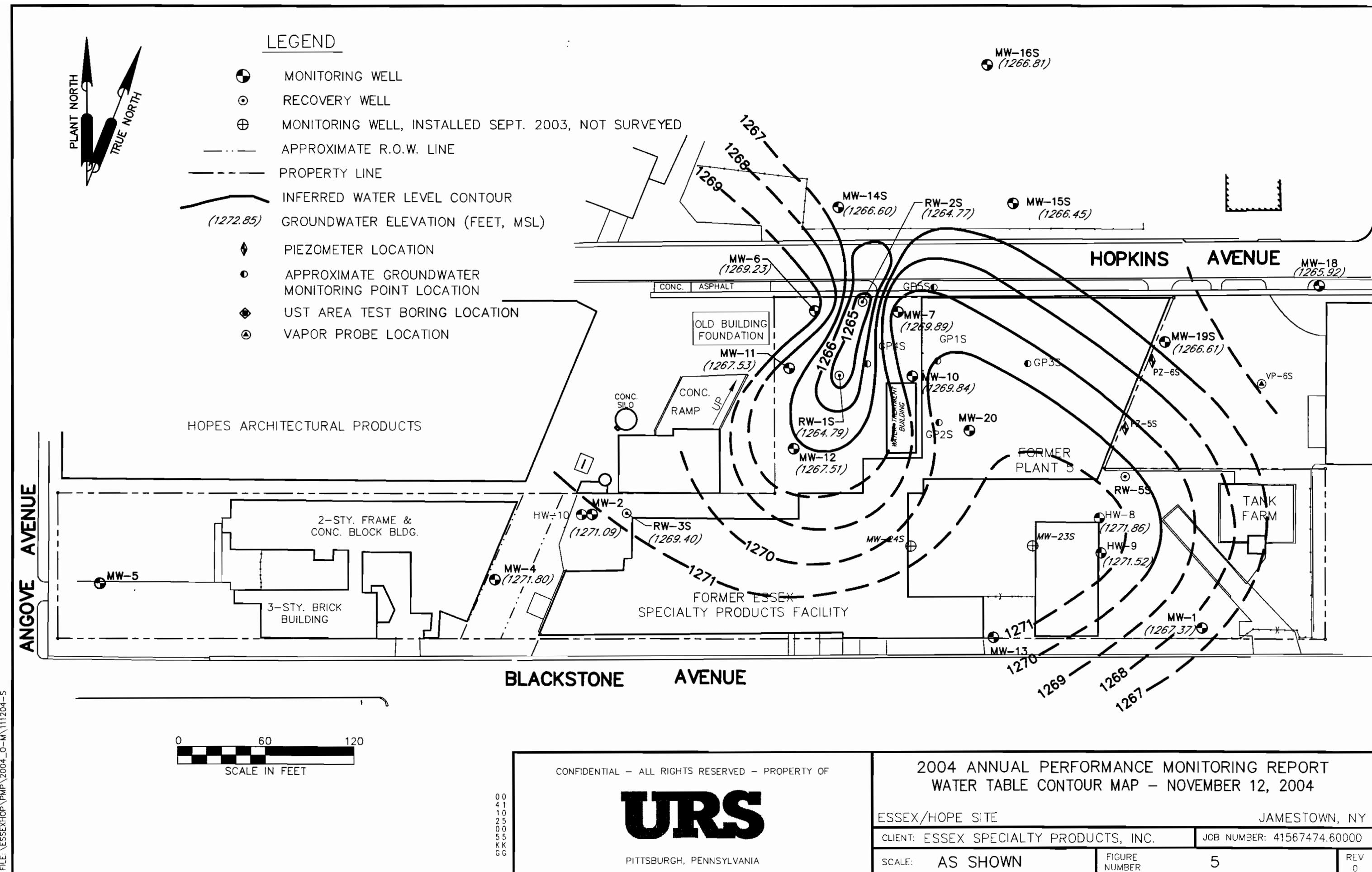
LEGEND

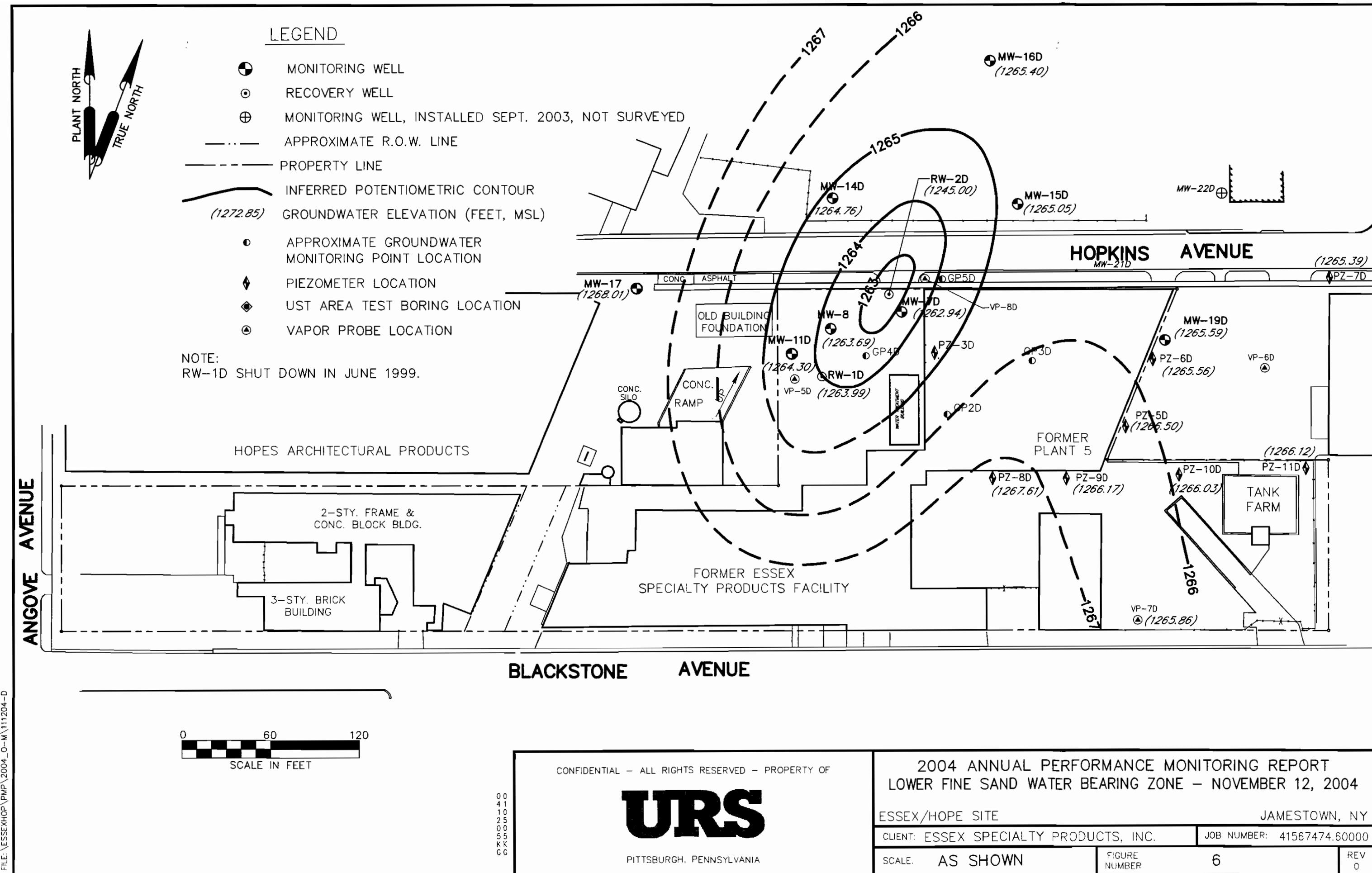
- (●) MONITORING WELL
- (○) RECOVERY WELL
- (⊕) MONITORING WELL, INSTALLED SEPT. 2003, NOT SURVEYED
- APPROXIMATE R.O.W. LINE
- PROPERTY LINE
- INFERRED POTENIOMETRIC CONTOUR
(1272.85) GROUNDWATER ELEVATION (FEET, MSL)
- (●) APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- (◆) PIEZOMETER LOCATION
- (◆) UST AREA TEST BORING LOCATION
- (◎) VAPOR PROBE LOCATION

NOTE:
RW-1D SHUT DOWN IN JUNE 1999.



0 60 120
SCALE IN FEET



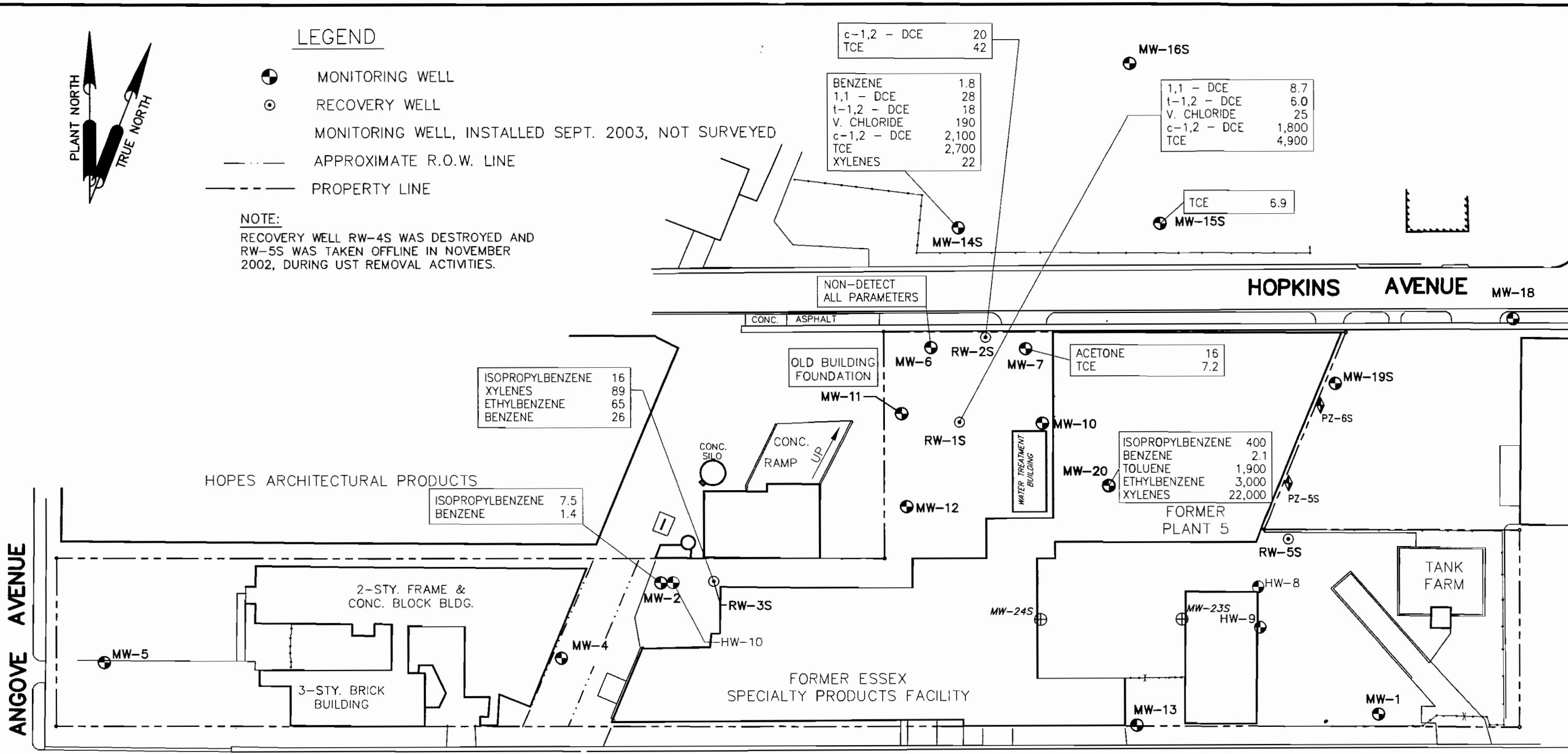


LEGEND

- MONITORING WELL
- RECOVERY WELL
- MONITORING WELL, INSTALLED SEPT. 2003, NOT SURVEYED
- APPROXIMATE R.O.W. LINE
- PROPERTY LINE

NOTE:

RECOVERY WELL RW-4S WAS DESTROYED AND RW-5S WAS TAKEN OFFLINE IN NOVEMBER 2002, DURING UST REMOVAL ACTIVITIES.



0 60 120
SCALE IN FEET

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URS

PITTSBURGH, PENNSYLVANIA

2004 PERFORMANCE MONITORING REPORT
SHALLOW WATER BEARING ZONE GROUNDWATER ANALYTICAL DATA
DECEMBER 2004

ESSEX/HOPE SITE

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

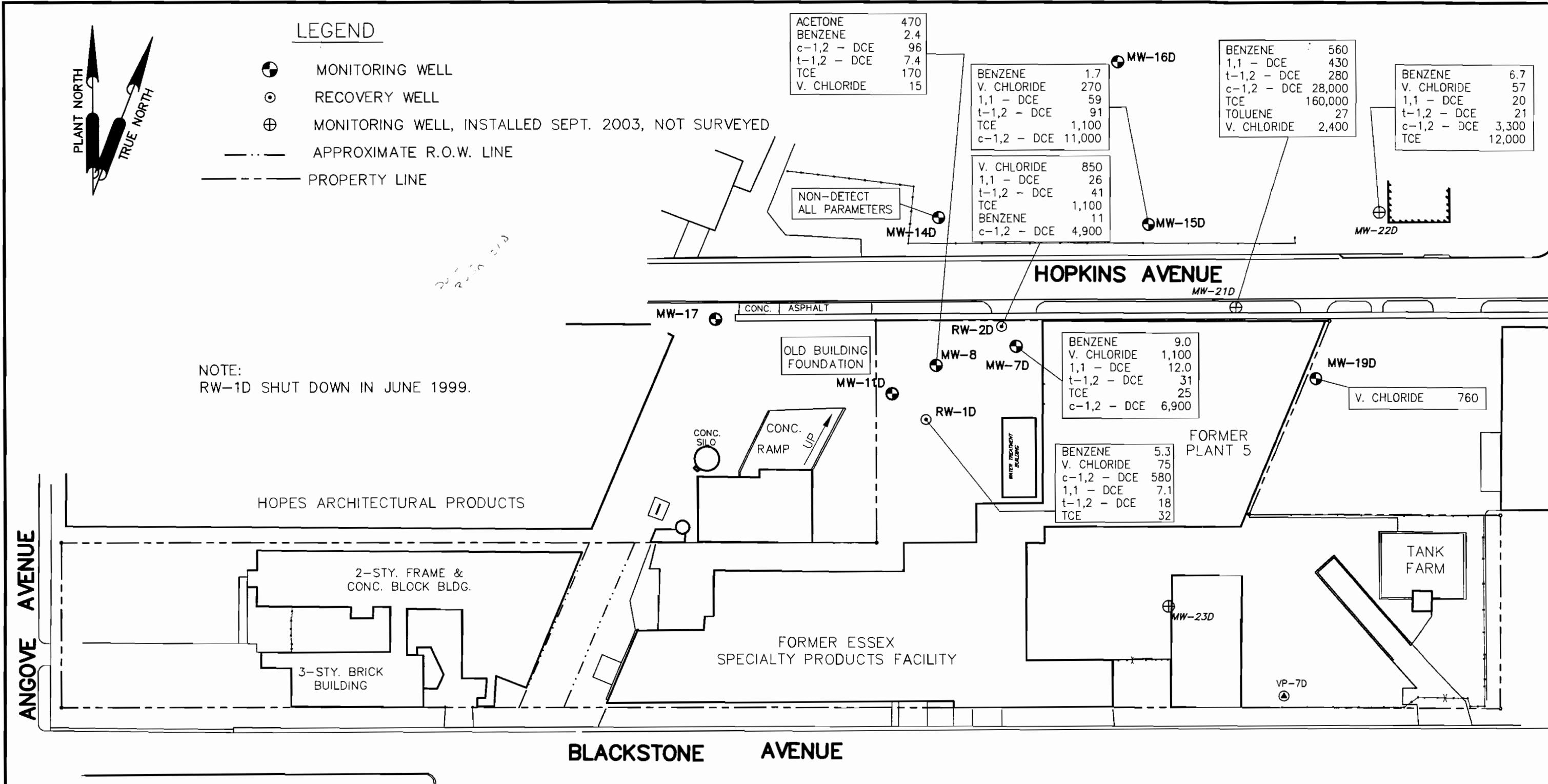
JAMESTOWN, NY
JOB NUMBER: 41567474.60000

SCALE: AS SHOWN

FIGURE
NUMBER

7

REV
0



0 60 120
SCALE IN FEET

MAP REFERENCE AND CONTROL:

BASE MAP IS A COMPOSITE OF A DIGITIZED SEPIA MYLAR AND MULTIPLE FIELD SURVEYS DONE BY MICHAEL J. RODGERS AND ASSOCIATES, BEMUS POINT, NEW YORK. THE SEPIA MYLAR WAS AT A SCALE OF 1"=20', DATED APRIL 15, 1992, REVISION DATE MARCH 10, 1993. ADDITIONAL FIELD SURVEYS WERE DONE AUGUST, 1997, AND JANUARY 9, 1998.

VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1256.034 (NATIONAL GEODETIC VERTICAL DATUM, 1929)
HORIZONTAL COORDINATES PROVIDED FOR THE MONITORING WELLS AND THE PROPERTY CORNERS ARE BASED ON A LOCAL GRID ESTABLISHED BY THE SURVEYOR. N10000, E10000 IS A PK NAIL SET IN THE CONCRETE CURB/CUTTER AND IS PART OF THE ORIGINAL TRAVERSE. IRON STAKES WERE SET AT THE PROPERTY CORNERS.

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PITTSBURGH, PENNSYLVANIA

2004 PERFORMANCE MONITORING REPORT
LOWER FINE SAND WATER BEARING ZONE GROUNDWATER ANALYTICAL DATA
DECEMBER 2004

ESSEX/HOPE SITE

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

JAMESTOWN, NY

JOB NUMBER:41567474.60000

SCALE: AS SHOWN

FIGURE
NUMBER

8

REV
0

APPENDIX A

GROUNDWATER EXTRACTION MONITORING DATA

APPENDIX A-1**WATER LEVEL DATA**

Appendix A-1
2004 Groundwater Extraction System Monitoring Data
2004 Water Levels
February through July

Appendix A-1
2004 Groundwater Extraction System Monitoring Data
2004 Water Levels
November and December

Well No.	Northing	Easting	Reference Elevation (ft msl)	Screened Zone	November 12, 2004		December 21, 2004			
					Depth to Water (feet)	Groundwater Elevation (ft msl)	Depth to Water (feet)	Groundwater Elevation (ft msl)		
MW-1	9758.7161	10383.6499	1280.48	Shallow WBZ	13.11	1267.37	12.69	1267.79		
MW-2	9837.1531	9959.6857	1279.87	Shallow WBZ	8.78	1271.09	8.67	1271.20		
MW-4	9792.3277	9900.7631	1281.02	Shallow WBZ	9.22	1271.80	9.42	1271.60		
MW-5	9789.6222	9631.761	1280.82	Shallow WBZ	NM	NA	NM	NA		
MW-6*	9977.1197	10118.8762	1277.98	Shallow WBZ	8.75	1269.23	8.07	1269.91		
MW-7*	9976.6467	10175.8797	1277.73	Shallow WBZ	8.53	1269.20	7.90	1269.63		
MW-7D*	9973.2593	10174.8524	1277.8	Lower Fine Sand WBZ	14.86	1262.94	14.62	1263.18		
MW-7DD*	9970.8547	10176.2698	1277.74	Glacial Till	1.99	1275.75	NM	NA		
MW-8	9959.6089	10127.6898	1277.97	Lower Fine Sand WBZ	14.28	1263.69	14.02	1263.95		
MW-10	9932.4702	10165.7078	1277.94	Shallow WBZ	8.10	1269.84	7.33	1270.61		
MW-11*	9937.9912	10101.7016	1277.75	Shallow WBZ	10.22	1267.53	9.73	1268.02		
MW-11D	9942.3792	10101.1482	1277.85	Lower Fine Sand WBZ	13.55	1284.30	10.94	1266.91		
MW-12	9883.0874	10104.9278	1278.18	Shallow WBZ	10.87	1267.51	9.84	1268.34		
MW-13	9752.0619	10240.2934	1278.12	Shallow WBZ	No Access	NA	NM	NA		
MW-14S	10048.7753	10135.5198	1280.25	Shallow WBZ	13.65	1266.60	13.18	1267.07		
MW-14D	10049.5051	10129.1897	1280.01	Lower Fine Sand WBZ	15.25	1264.76	14.89	1265.12		
MW-15S	10051.8272	10254.4862	1279.55	Shallow WBZ	13.10	1266.45	12.36	1267.19		
MW-15D	10045.5611	10255.2035	1279.46	Lower Fine Sand WBZ	14.41	1265.05	14.15	1265.31		
MW-16S	10146.7788	10236.8582	1279.32	Shallow WBZ	12.51	1266.81	11.98	1267.34		
MW-16D	10143.9497	10236.6005	1279.09	Lower Fine Sand WBZ	13.65	1265.40	13.23	1265.82		
MW-17	9987.6315	9995.5207	1278.7	Lower Fine Sand WBZ	10.69	1268.01	9.41	1269.29		
MW-18	9994	10465	1275.59	Shallow WBZ	9.67	1265.92	8.87	1266.72		
MW-19S	9956.1454	10358.207	1276.82	Shallow WBZ	10.21	1266.61	9.82	1267.20		
MW-19D	9951.569	10355.9748	1276.21	Lower Fine Sand WBZ	10.62	1265.59	10.14	1266.07		
MW-20	9895.0082	10224.2128	1278.64	Shallow WBZ	No Access	NA	NM	NA		
MW-21D	NA	NA	NA	Lower Fine Sand WBZ	10.71	NA	NM	NA		
MW-22D	NA	NA	NA	Lower Fine Sand WBZ	10.25	NA	NM	NA		
MW-23S	NA	NA	NA	Shallow WBZ	6.07	NA	NM	NA		
MW-23D	NA	NA	NA	Lower Fine Sand WBZ	No Access	NA	NM	NA		
MW-24S	NA	NA	NA	Shallow WBZ	11.70	NA	NM	NA		
HW-8	9834.664	10312.0855	1277.81	Shallow WBZ	5.65	1271.86	NM	NA		
HW-9	9810.5264	10313.3873	1280.78	Shallow WBZ	9.26	1271.52	NM	NA		
HW-10	9837.2976	9966.7406	1279.55	Shallow WBZ	NM	NA	NM	NA		
RW-1S	9932.8951	10135.8706	1278.08	Shallow WBZ	11.27	1264.79	10.71	1265.35		
RW-1D	9926.5997	10121.3968	1276.64	Lower Fine Sand WBZ	12.65	1263.99	12.45	1264.19		
RW-2S*	9893.3801	10151.8403	1276.59	Shallow WBZ	11.82	1264.77	6.40	1270.70		
RW-2D	9883.0619	10187.3168	1276.46	Lower Fine Sand WBZ	31.46	1245.00	31.40	1245.06		
RW-3S	9838.0594	9990.4502	1278.29	Shallow WBZ	8.89	1269.40	8.73	1269.56		
RW-5S	9863.2271	10330.2425	1277.43	Shallow WBZ	NM	NA	5.27	1272.16		
GP-1S	9954.39*	10203.02*	1278.98	Shallow WBZ	NM	NA	NM	NA		
GP-2S	9941.89*	10201.04*	1278.63	Shallow WBZ	NM	NA	NM	NA		
GP-2D	9914.91*	10207.84*	1278.7	Lower Fine Sand WBZ	NM	NA	NM	NA		
GP-3S	9941.13*	10264.03*	1278.87	Shallow WBZ	NM	NA	NM	NA		
GP-3D	9937.38*	10264.53*	1278.77	Lower Fine Sand WBZ	NM	NA	NM	NA		
GP-4S	9940.88*	10154.97*	1278.06	Shallow WBZ	NM	NA	NM	NA		
GP-4D	9940.85*	10151.57*	1278.08	Lower Fine Sand WBZ	NM	NA	NM	NA		
GP-5S	9993.54*	10200.34*	1277.44	Shallow WBZ	NM	NA	NM	NA		
GP-5D	9993.55*	10290.21*	1277.37	Lower Fine Sand WBZ	NM	NA	NM	NA		
PZ-1S	NA	NA	NA	Shallow WBZ	NM	NA	NM	NA		
PZ-1D	NA	NA	NA	1277.75	Lower Fine Sand WBZ	NM	NA	NA		
PZ-2D	NA	NA	NA	1277.86	Lower Fine Sand WBZ	NM	NA	NA		
PZ-3D	NA	NA	NA	1279.02	Lower Fine Sand WBZ	NM	NA	NA		
PZ-4D	NA	NA	NA	1278.94	Lower Fine Sand WBZ	NM	NA	NA		
PZ-5S	NA	NA	NA	1276.56	Shallow WBZ	6.22	1270.34	NM		
PZ-5D	NA	NA	NA	1276.52	Lower Fine Sand WBZ	10.02	1266.50	NM		
PZ-6S	NA	NA	NA	1276.77	Shallow WBZ	8.92	1267.85	NM		
PZ-6D	NA	NA	NA	1276.57	Lower Fine Sand WBZ	11.01	1265.56	NM		
PZ-7D	NA	NA	NA	1275.83	Lower Fine Sand WBZ	10.44	1265.39	9.92	1265.91	
PZ-8D	NA	NA	NA	1278.83	Lower Fine Sand WBZ	11.02	1267.61	11.87	1266.76	
PZ-9D	NA	NA	NA	1278.04	Lower Fine Sand WBZ	11.87	1266.17	9.46	1266.58	
PZ-10D	NA	NA	NA	1277.58	Lower Fine Sand WBZ	11.55	1266.03	11.01	1266.57	
PZ-11D	NA	NA	NA	1276.7	Lower Fine Sand WBZ	10.58	1266.12	10.33	1266.37	
VP-5D	NA	NA	NA	1278.2	Lower Fine Sand WBZ	11.72	1266.48	10.92	1267.28	
VP-6S	NA	NA	NA	1276.62	Upper Gravel of LFSWBZ	No Access	NA	NM	NA	
VP-6D	NA	NA	NA	1276.71	Lower Fine Sand WBZ	No Access	NA	NM	NA	
VP-7D	NA	NA	NA	1278.87	Lower Fine Sand WBZ	13.01	1265.86	12.10	1266.77	
VP-8D	NA	NA	NA	1277.37	Lower Fine Sand WBZ	10.99	1256.38	NM	NA	
Comments					2573 Days of System Operation		Days of System Operation			
WBZ - Water Bearing Zone										
* = Estimated Coordinate										
MW-5 TOC elev. altered from 1280.91 ft msl to 1280.82 ft msl on May 5, 2000										
* Wells resurveyed on 10/11/00 due to uplift of concrete from injection work.										
RW-4S and RW-5S taken offline in October 2002 for UST Removal.										
Wells RW-4S, TW-01 and HW-7 destroyed during UST removal operations										

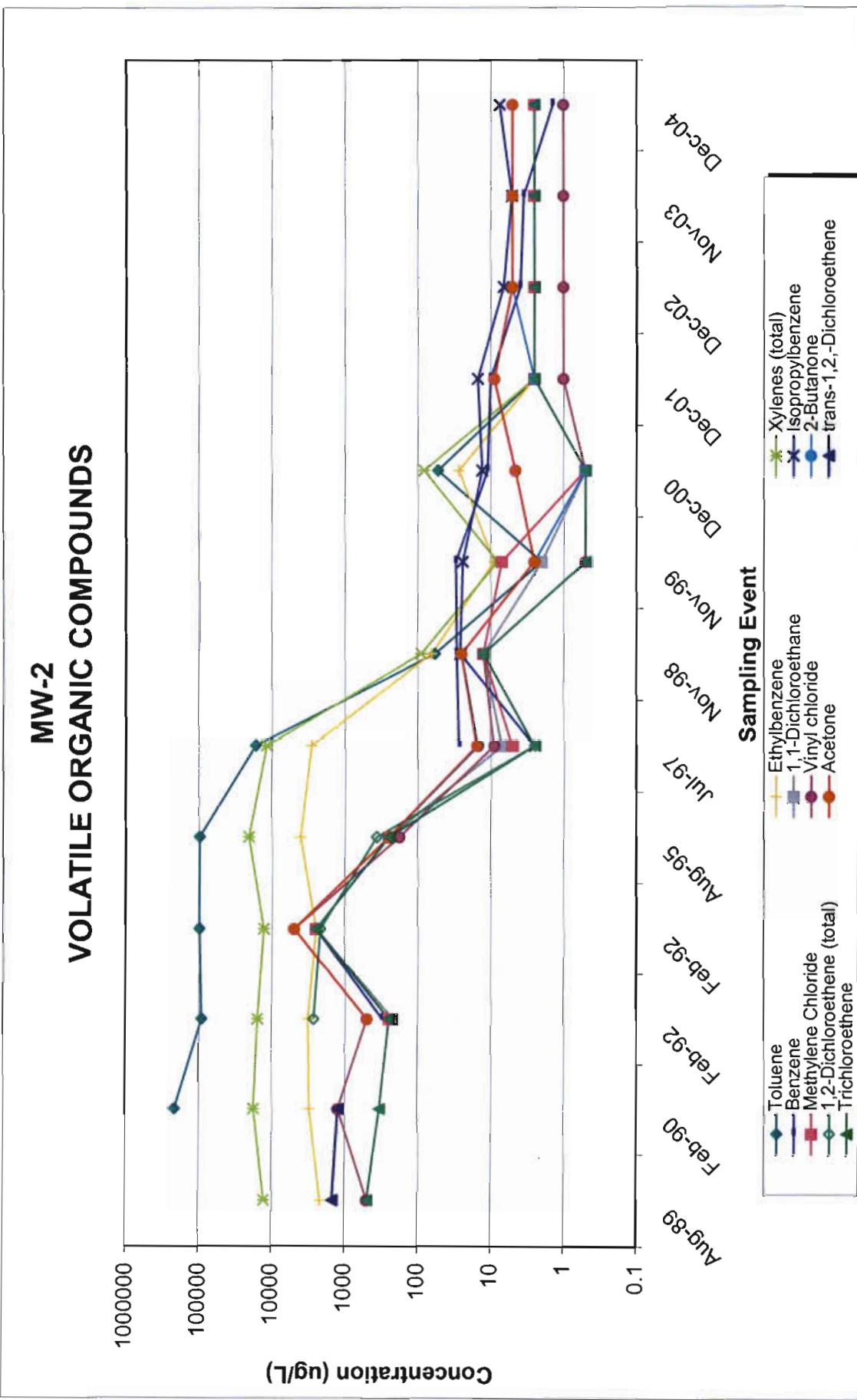
APPENDIX A-2

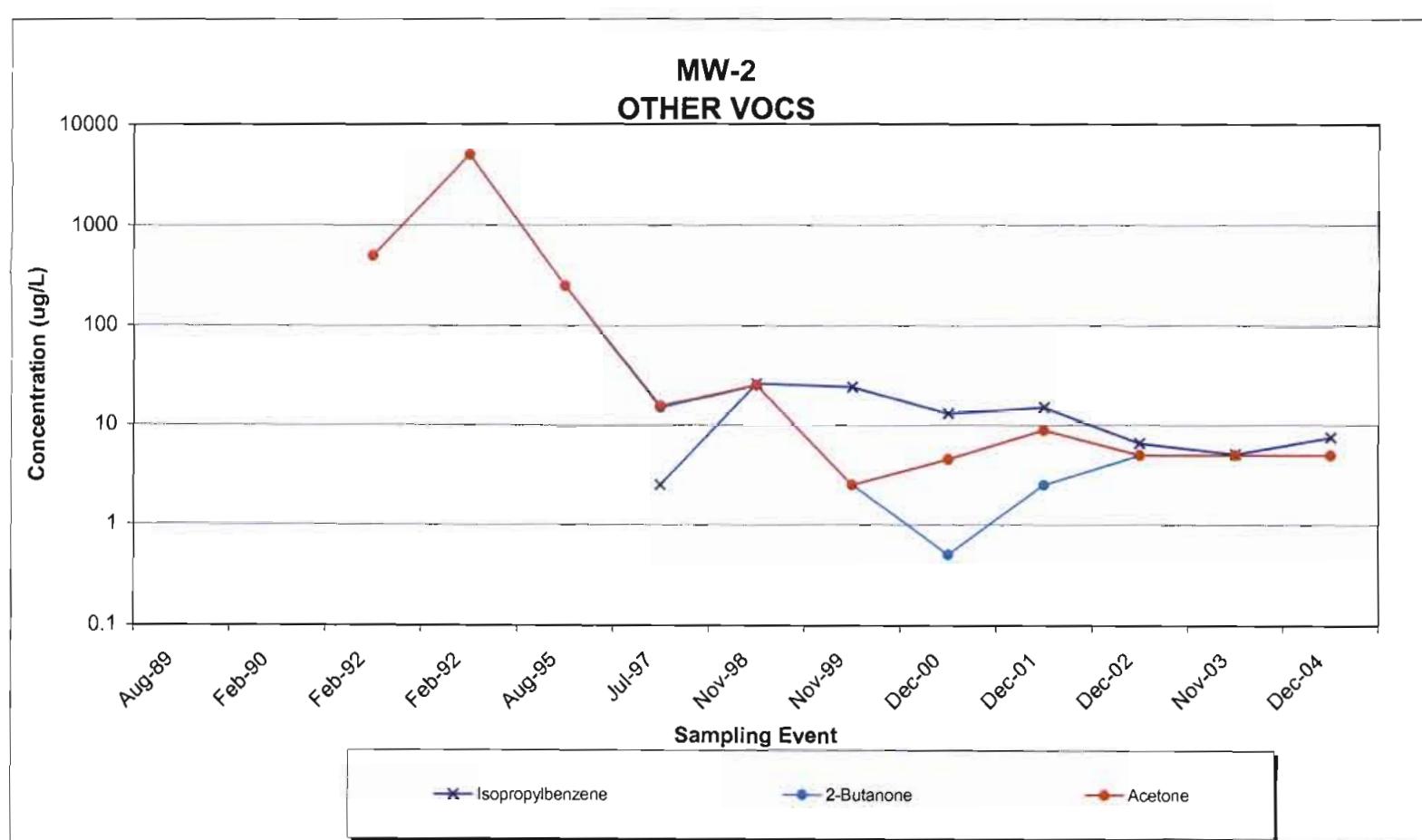
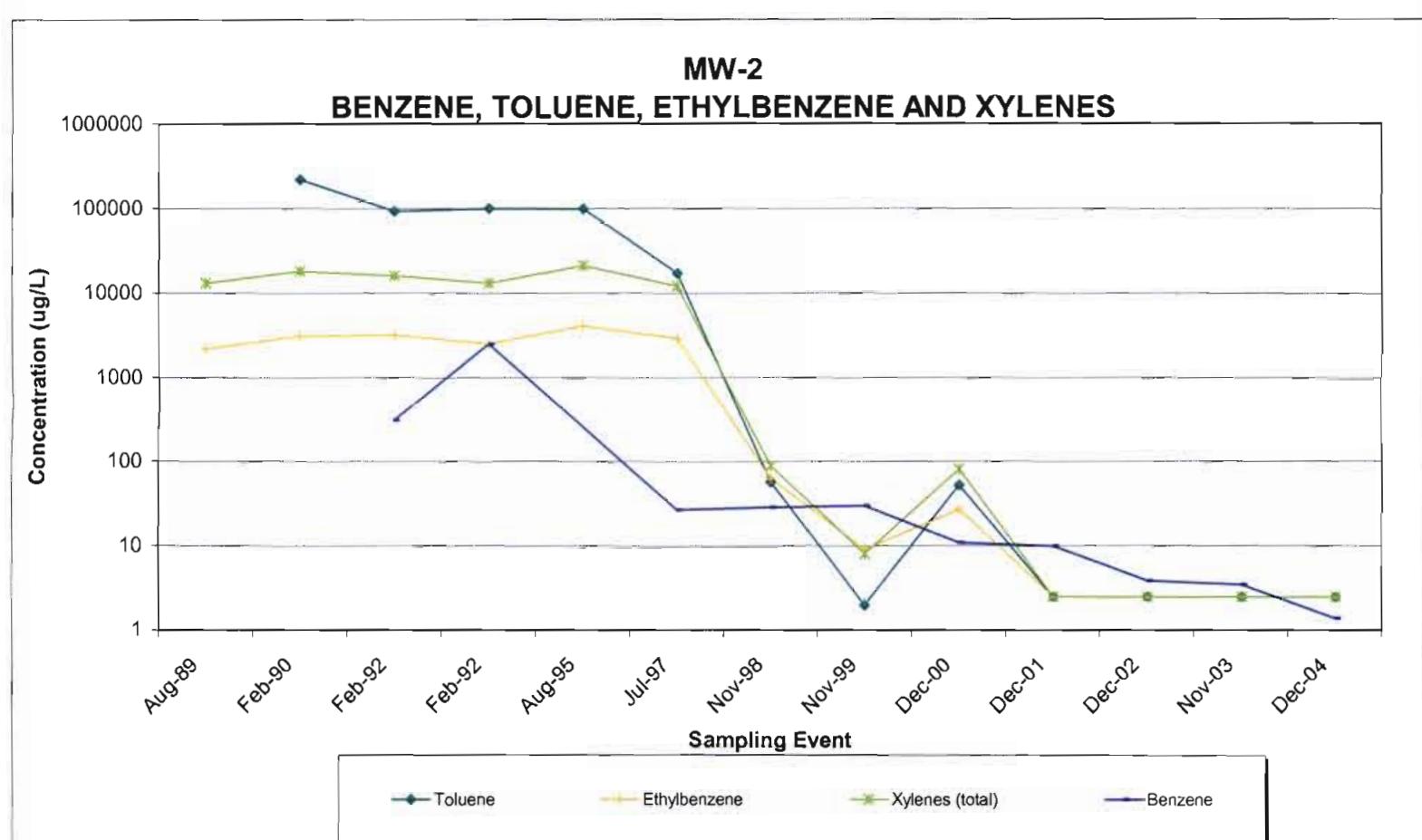
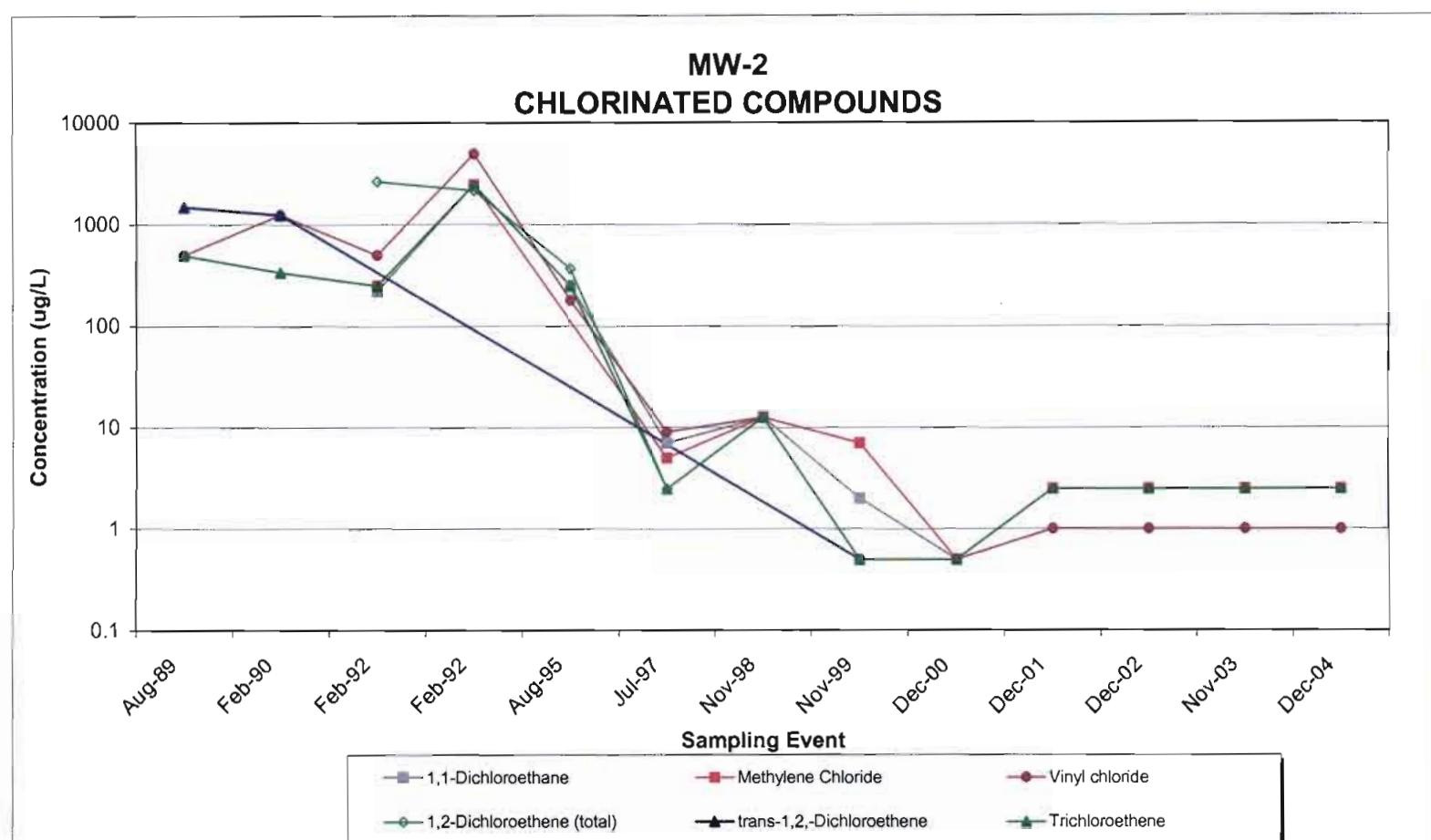
2004 Groundwater Extraction System Monitoring Data

Appendix A-2
2004 Groundwater Extraction System Monitoring Data
Recovery Well Pumping Rate vs. Time

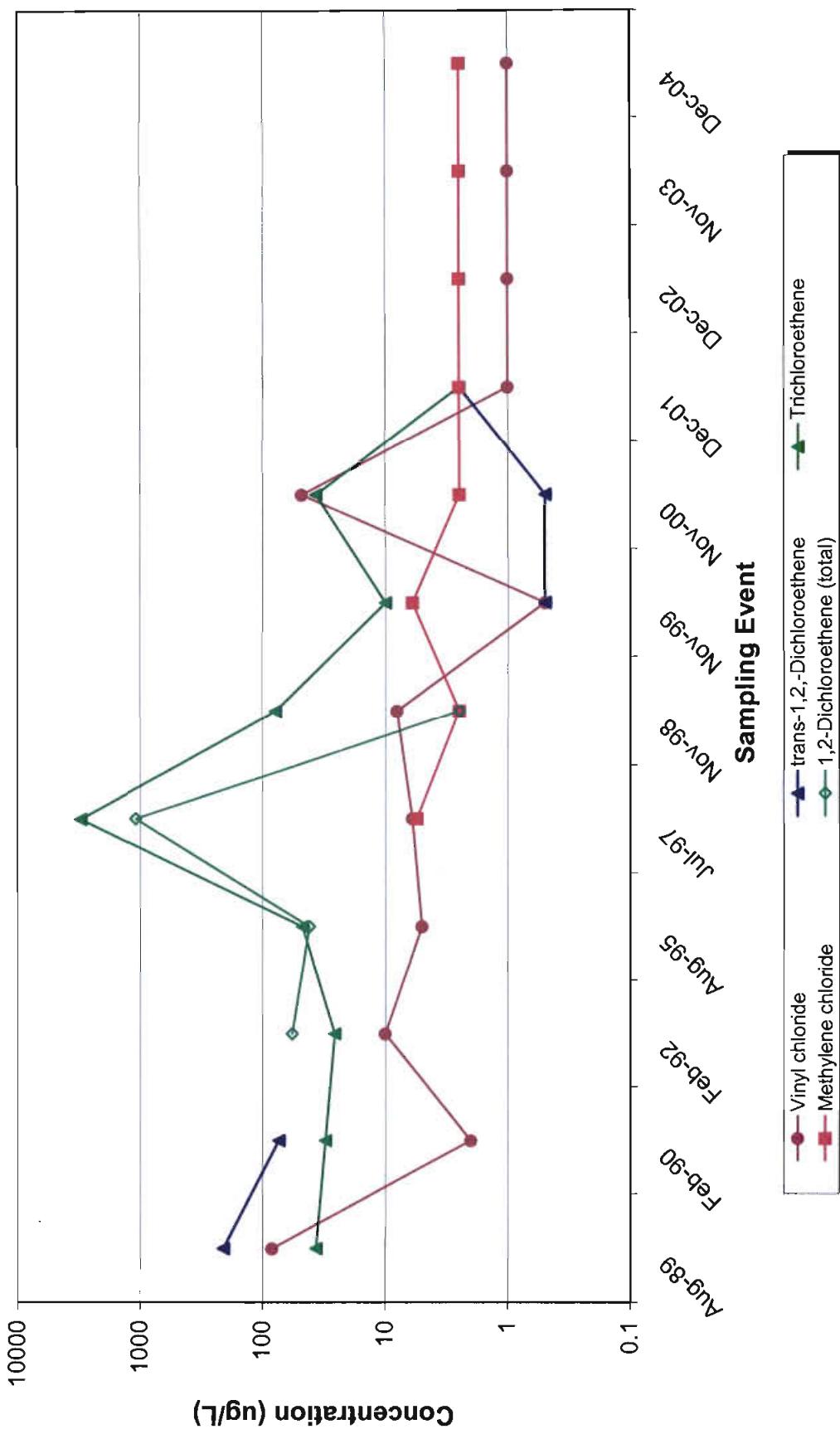
Date	Elapsed Time (Days)	NPL Area - Shallow WBZ			NPL Area - L.F. Sand WBZ			AST/UST Area - Shallow WBZ		Comments
		RW-1S Avg. GPM	RW-2S Avg. GPM	Total GPM	RW-1D Avg. GPM	RW-2D Avg. GPM	Total GPM	RW-3S Avg. GPM		
12/28/2003	2242	0.15	0.56	0.71	0	1.48	1.48	0		
1/25/2004	2270	NA	NA	NA	NA	NA	NA	0		Break in plant discharge pipe all wells shut down
1/31/2004	2276	NA	NA	NA	NA	NA	NA	0		Restart recovery wells
2/8/2004	2284	NA	NA	NA	NA	NA	NA	0		
2/15/2004	2291	0.06	0.05	0.11	NA	2.01	2.01	0		
2/21/2004	2297	NA	NA	NA	NA	NA	NA	NA		RW-3S Back in service (down since 1/1/04)
2/22/2004	2298	0.09	NA	0.09	NA	2.09	2.09	0.025		
2/29/2004	2305	0.197	NA	0.197	NA	1.94	1.94	0.109		Increased Freq of RW-2D to 62 Hz
3/7/2004	2312	0.215	NA	0.215	NA	2	2	0.26		Increased Freq of RW-2D to 64 Hz
3/14/2004	2319	0.169	NA	0.169	NA	2.09	2.09	0.101		
3/21/2004	2326	0.168	NA	0.168	NA	2.03	2.03	0.101		
3/28/2004	2333	0.179	0.304	0.483	NA	1.99	1.99	0.148		Increased Freq of RW-2D to 66 Hz
3/30/2004	2335	NA	NA	NA	NA	NA	NA	NA		Restart all RW, off high tank alarm
4/4/2004	2340	0.159	1.71	1.869	NA	1.95	1.95	0.11		
4/10/2004	2346	0.152	1.84	1.792	NA	2.03	2.03	0.04		
4/18/2004	2354	0.139	1.37	1.509	NA	2	2	0.037		
4/28/2004	2362	0.123	1.27	1.393	NA	1.92	1.92	0.047		
5/2/2004	2368	0.11	1.135	1.245	NA	1.88	1.88	0.042		
5/9/2004	2375	0.108	0.835	0.943	NA	1.84	1.84	0.067		
5/16/2004	2382	0.171	1.4	1.571	NA	1.8	1.8	0.114		Increased Freq of RW-2D to 68 Hz
5/23/2004	2389	0.163	1.37	1.533	NA	1.07	1.07	0.025		
5/30/2004	2396	NA	1.41	1.41	NA	1.73	1.73	0.001		
6/6/2004	2403	0.14	1.17	1.31	NA	1.69	1.69	0.034		
6/13/2004	2410	0.101	0.69	0.791	NA	1.62	1.62	0.037		
6/18/2004	2415	0.09	0.54	0.63	NA	1.52	1.52	0.063		All wells shut down for carbon change
6/20/2004	2417	NA	NA	NA	NA	NA	NA	NA		All wells back in service
6/27/2004	2424	0.099	0.59	0.689	NA	1.55	1.55	0.039		
7/4/2004	2431	0.088	0.44	0.528	NA	1.52	1.52	0.034		
7/11/2004	2438	0.092	0.52	0.612	NA	1.47	1.47	0.046		
7/18/2004	2445	0.12	0.8	0.92	NA	1.41	1.41	0.068		System shut down for RW maintenance & carbon change-out
7/25/2004	2452	0.1	0.82	0.92	NA	0.73	0.73	0.02		System Restarted; Adjust Freq. Of 2D to 56 Hz at 0830
8/1/2004	2459	0.18	1.22	1.4	NA	2.42	2.42	0.09		Adjust Freq. Of 2D to 52 Hz
8/15/2004	2473	0.138	1.01	1.148	NA	2.39	2.39	0.05		Adjust Freq. Of 2D to 53 Hz
8/22/2004	2480	0.07	0.371	0.441	NA	2.23	2.23	0.03		
8/29/2004	2487	0.079	0.43	0.509	NA	2.17	2.17	0.032		
9/5/2004	2494	0.081	0.34	0.421	NA	2.17	2.17	0.027		Increase 2D to 55 Hz
9/19/2004	2508	0.144	1.53	1.674	NA	2.29	2.29	0.164		
9/26/2004	2515	0.157	1.76	1.917	NA	2.31	2.31	0.069		
10/3/2004	2522	0.09	0.78	0.87	NA	2.3	2.3	0.028		
10/10/2004	2529	0.057	0.2	0.257	NA	2.23	2.23	0.015		Increase 2D to 56 Hz
10/17/2004	2536	0.039	0.085	0.124	NA	2.27	2.27	0.012		
10/24/2004	2543	0.065	0.43	0.495	NA	2.22	2.22	0.033		Increase 2D to 58 Hz
10/31/2004	2550	0.057	0.27	0.327	NA	2.27	2.27	0.032		
11/7/2004	2557	0.087	0.96	1.047	NA	2.23	2.23	0.056		
11/14/2004	2564	0.085	0.56	0.645	NA	2.23	2.23	0.052		
11/28/2004	2578	0.075	0.41	0.485	NA	2.23	2.23	0.082		
12/6/2004	2586	0.093	1.57	1.663	NA	2.2	2.2	0.06		
12/13/2004	2593	0.08	1.49	1.57	NA	2.12	2.12	0.062		
12/19/2004	2599	0.036	0.001	0.037	NA	1.01	1.01	0.023		
12/26/2004	2606	0.099	0.95	1.049	NA	2.45	2.45	0.098		

APPENDIX B**RECOVERY AND MONITORING WELL
CONSTITUENT CONCENTRATION vs TIME PLOTS**

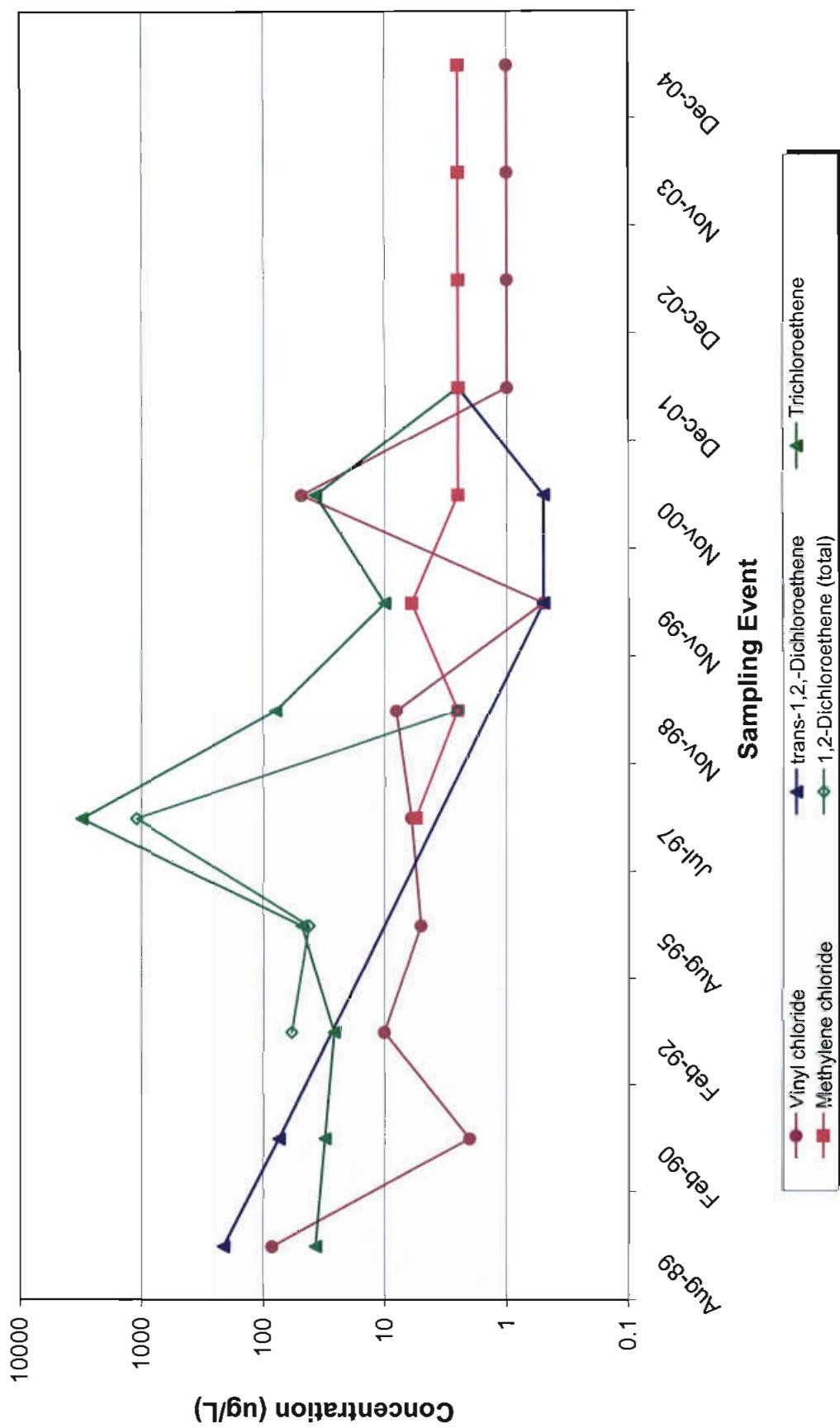


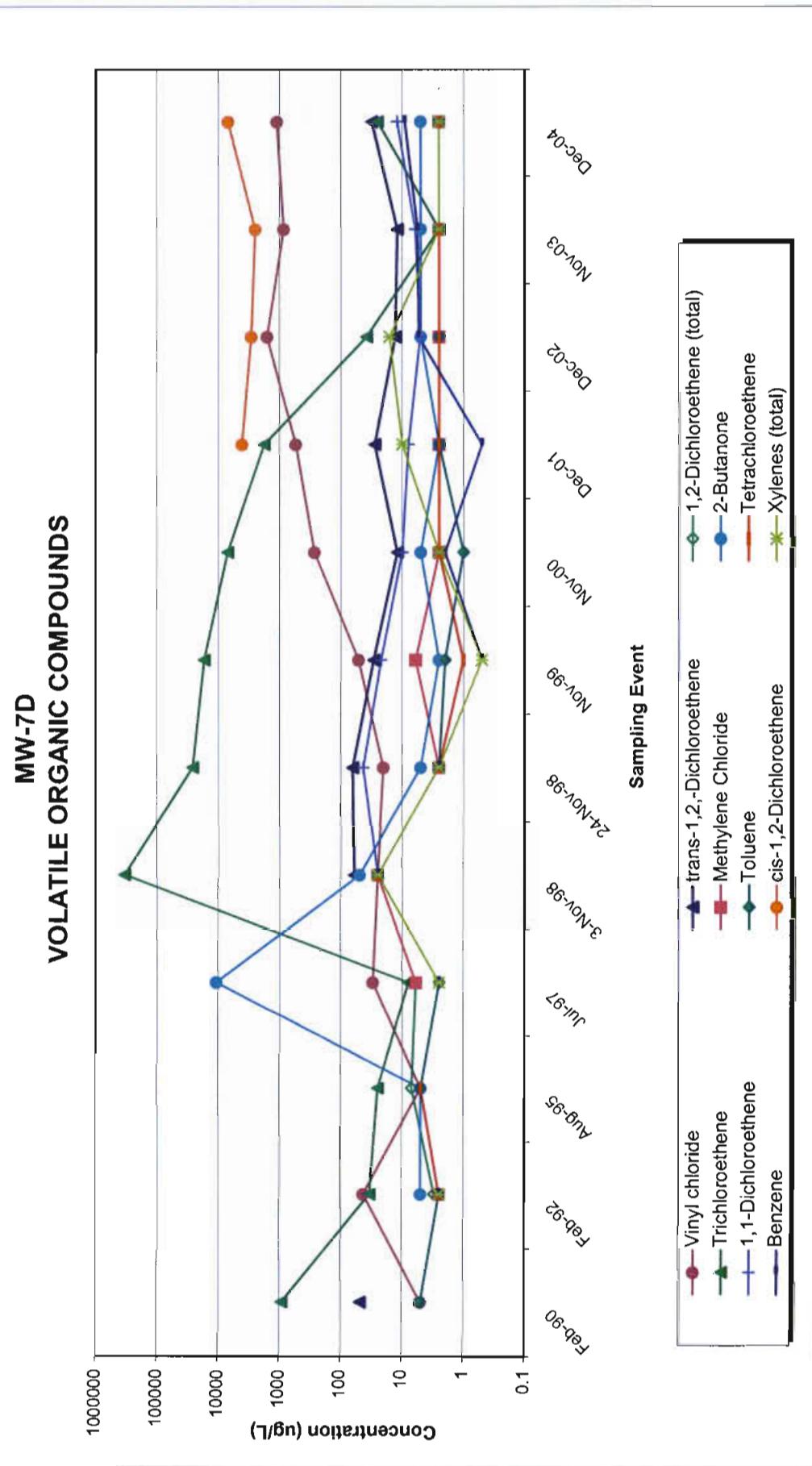


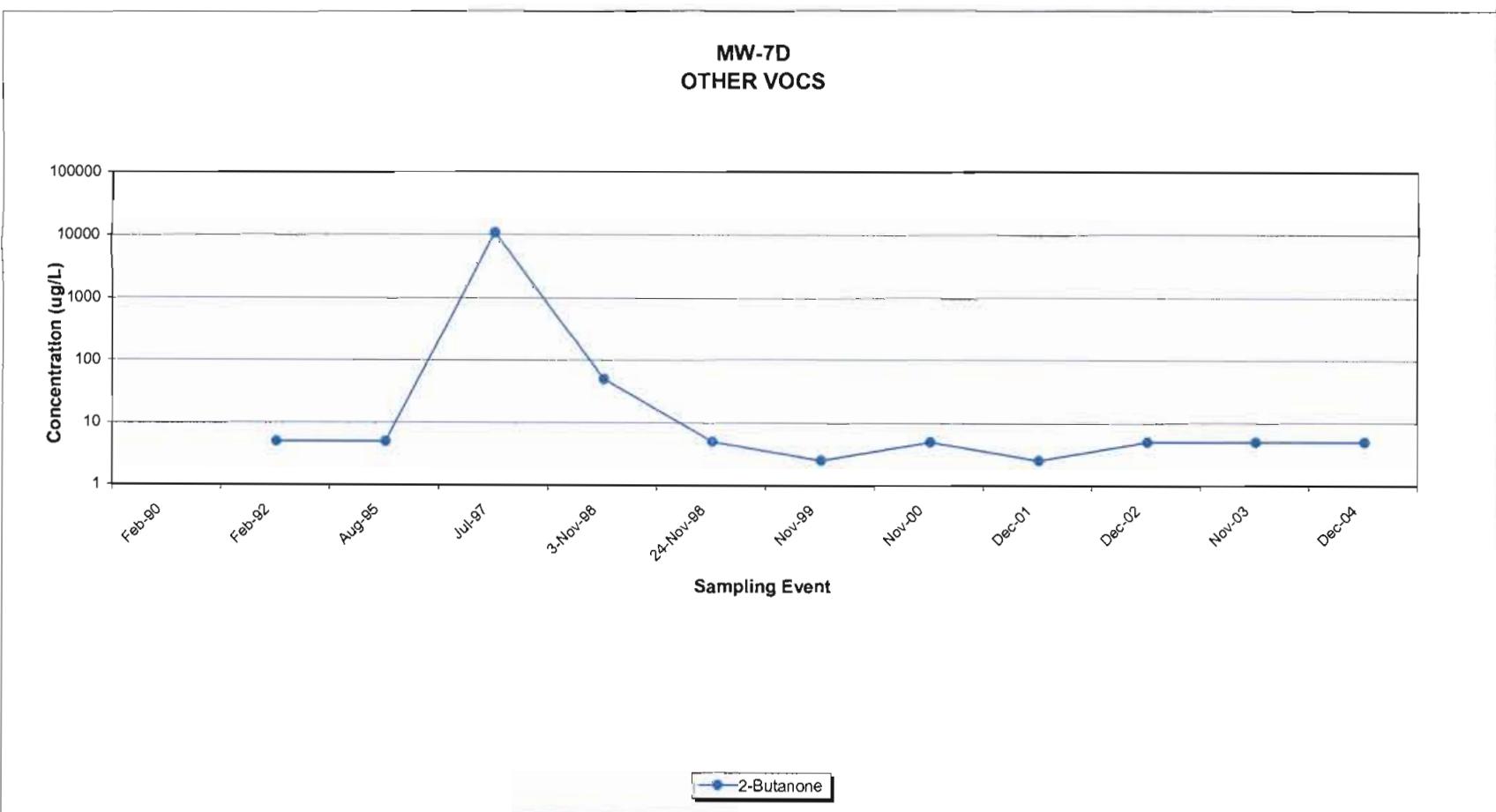
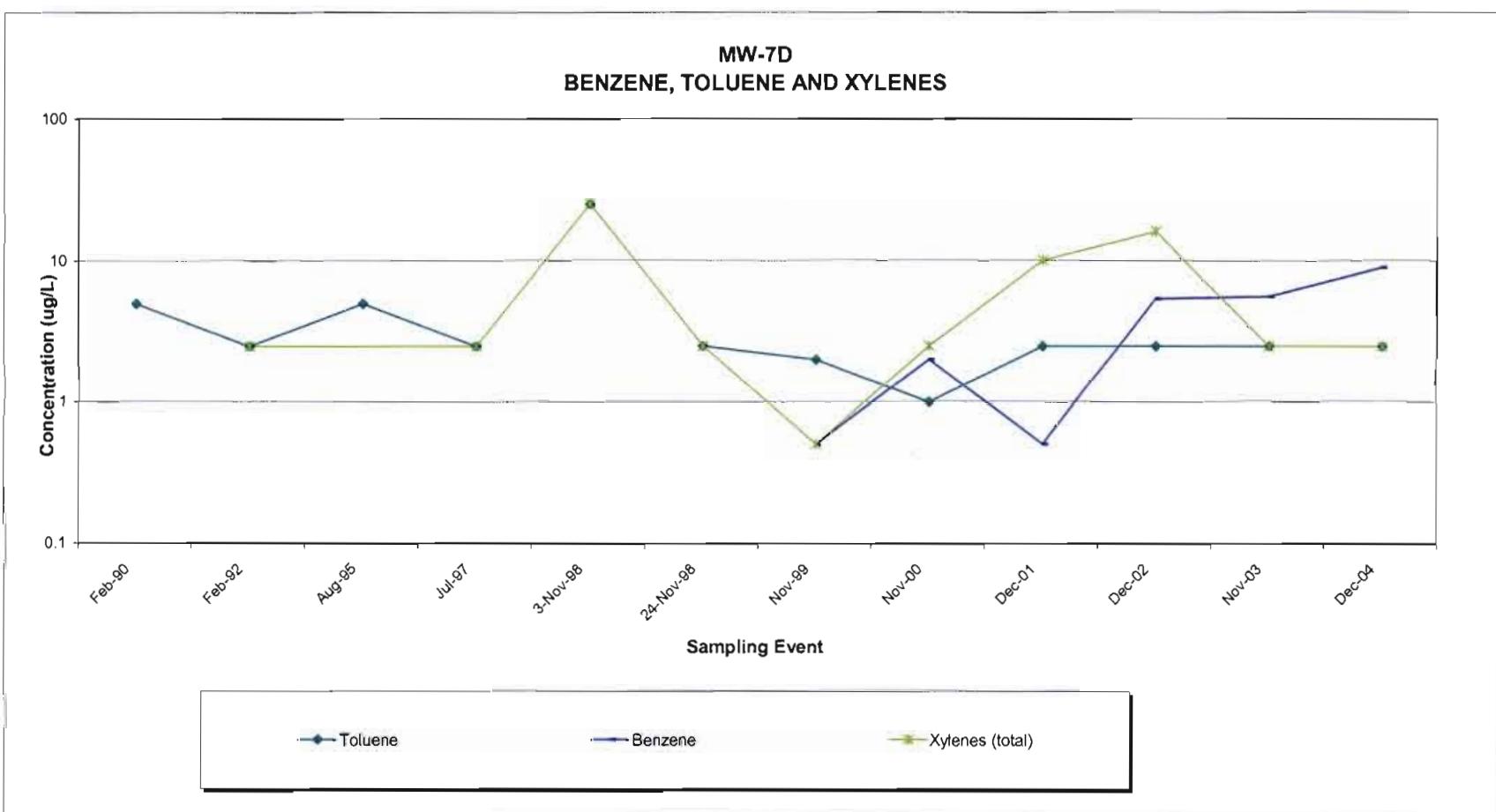
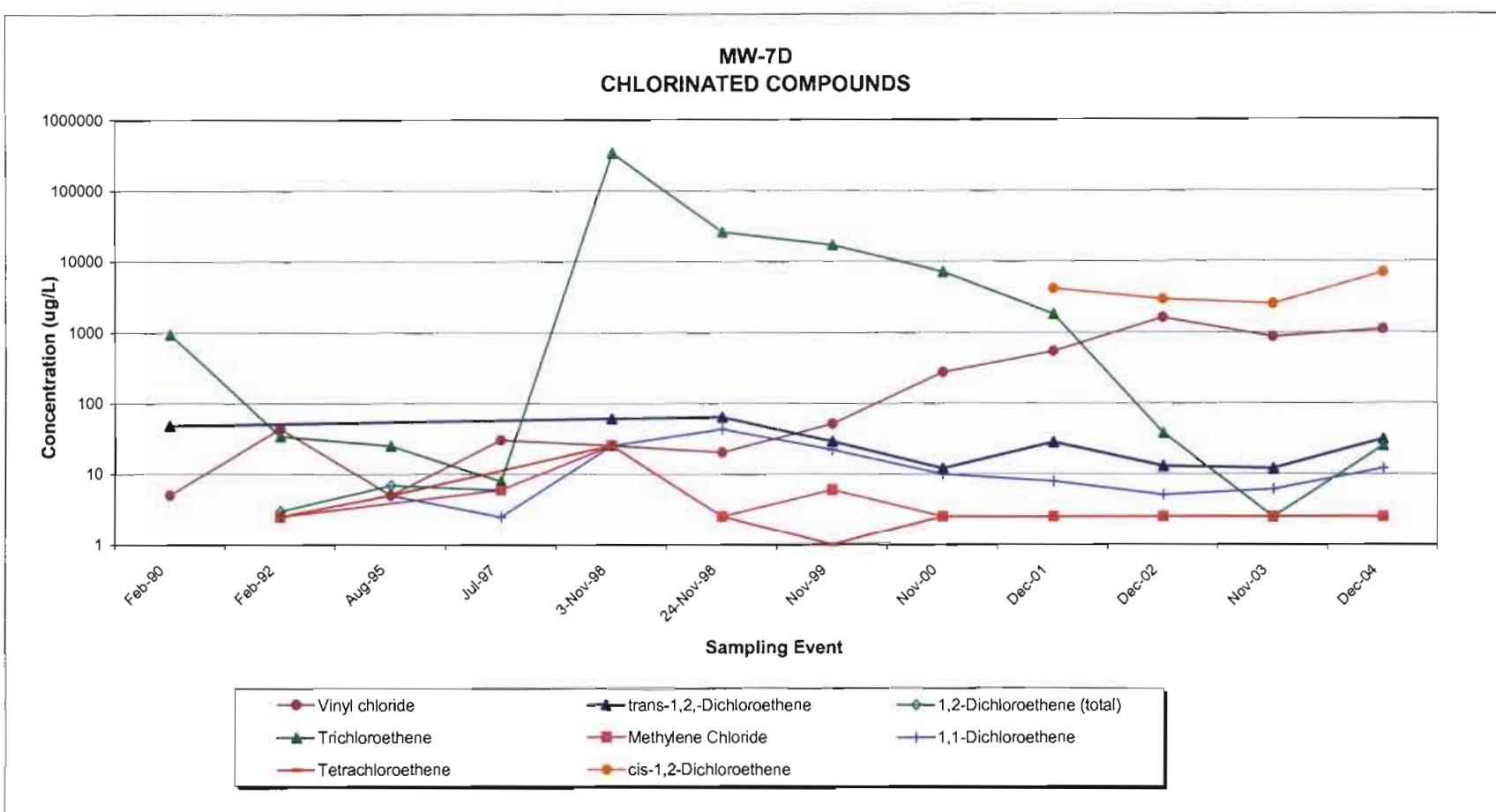
MW-6 VOLATILE ORGANIC COMPOUNDS



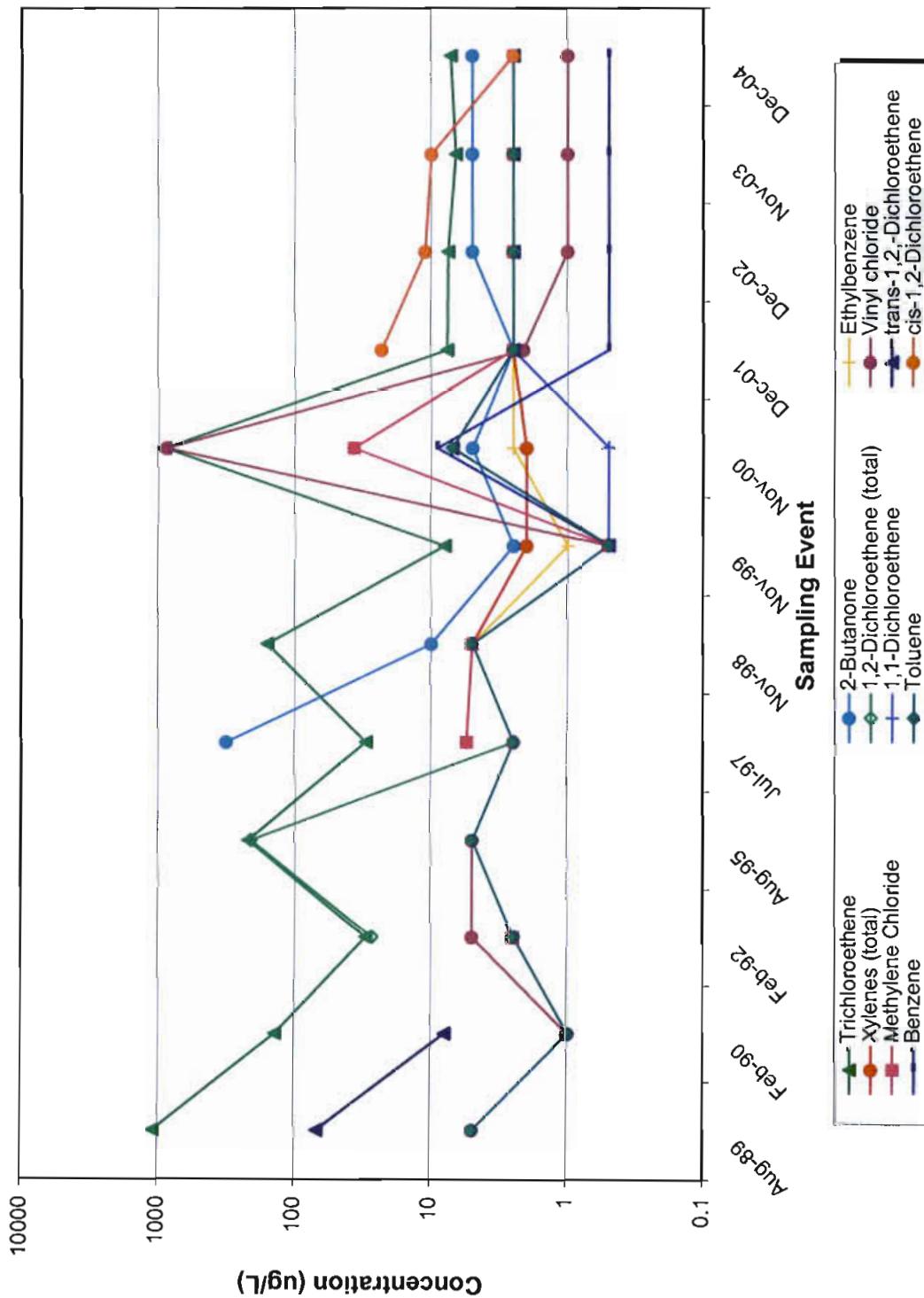
MW-6 CHLORINATED COMPOUNDS

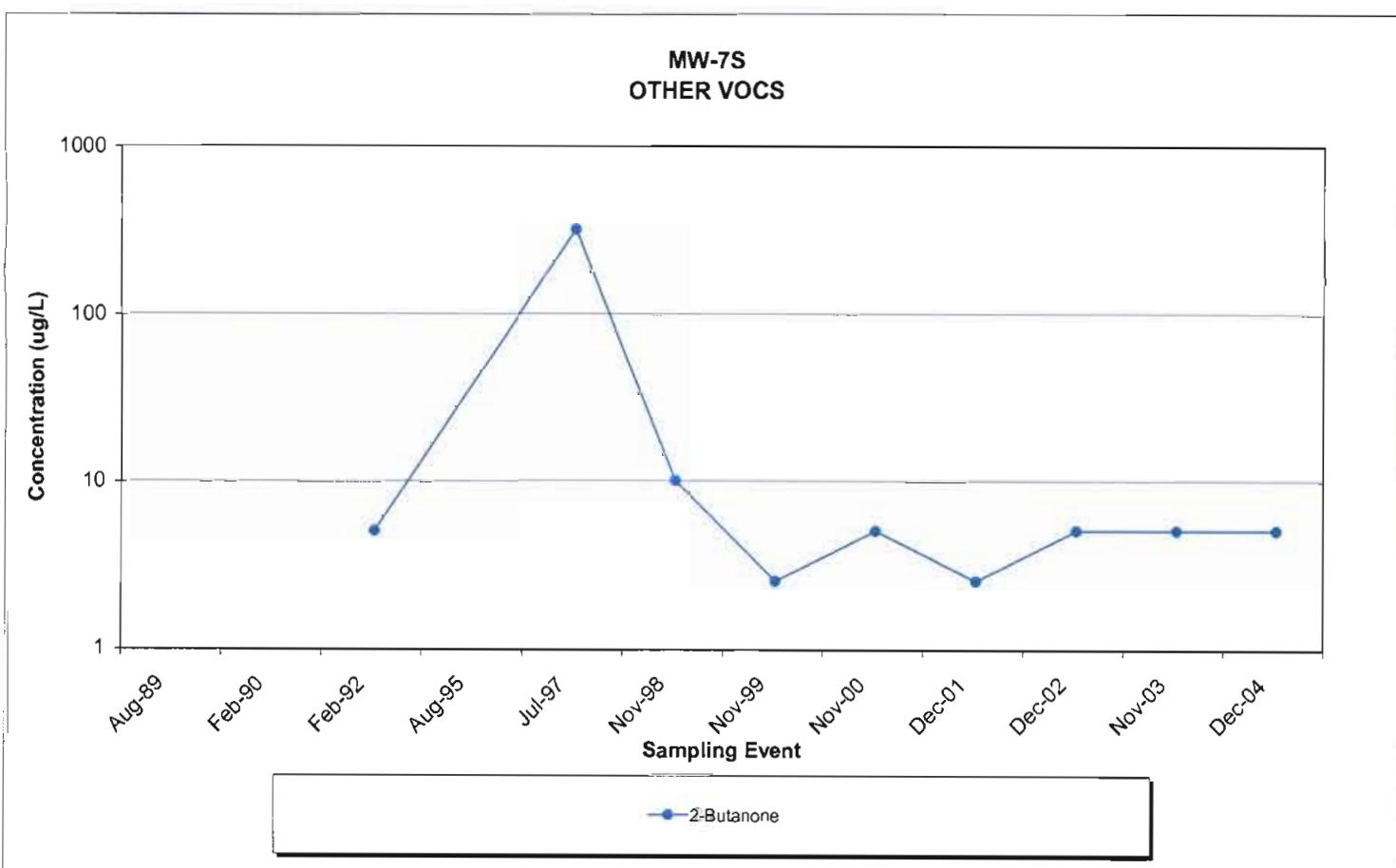
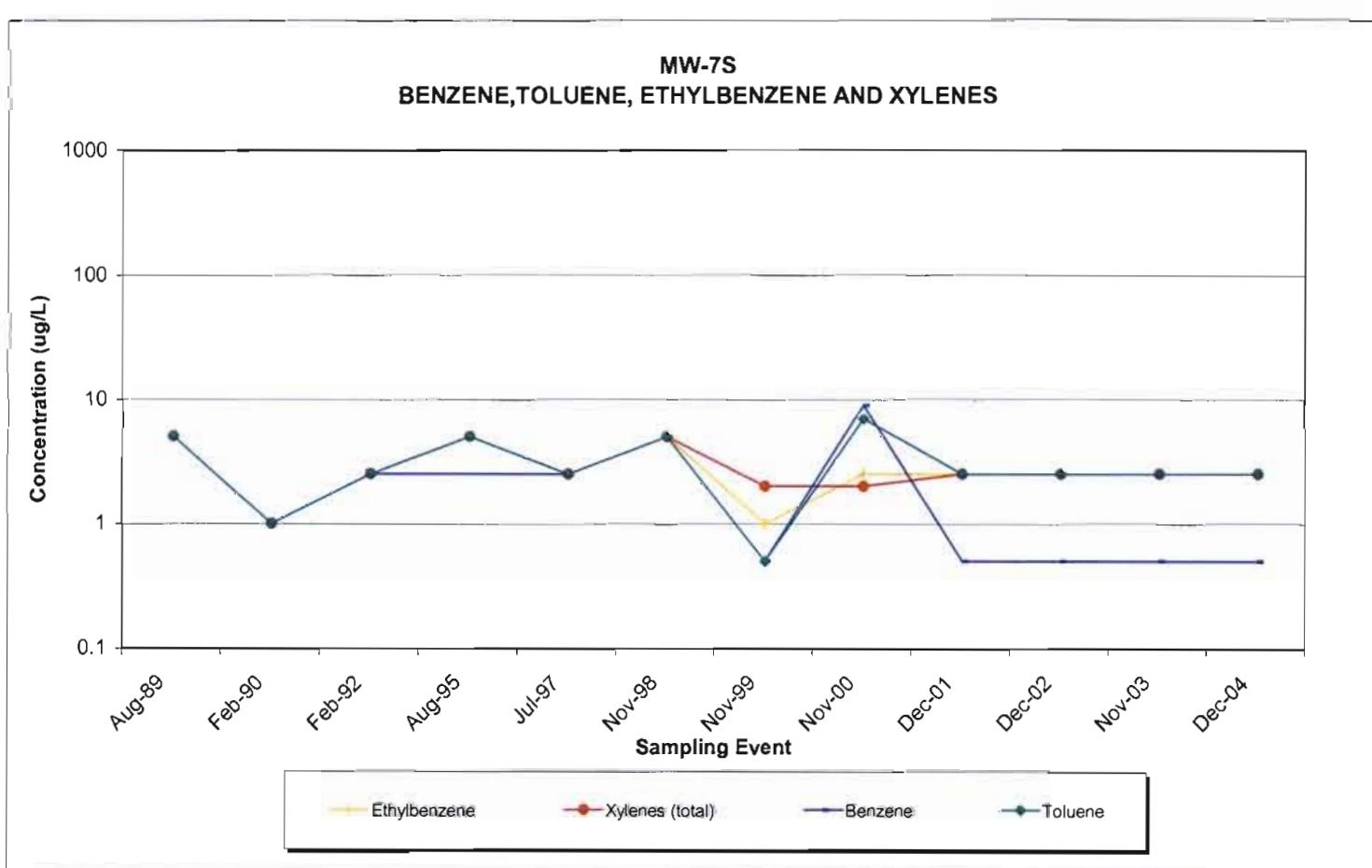
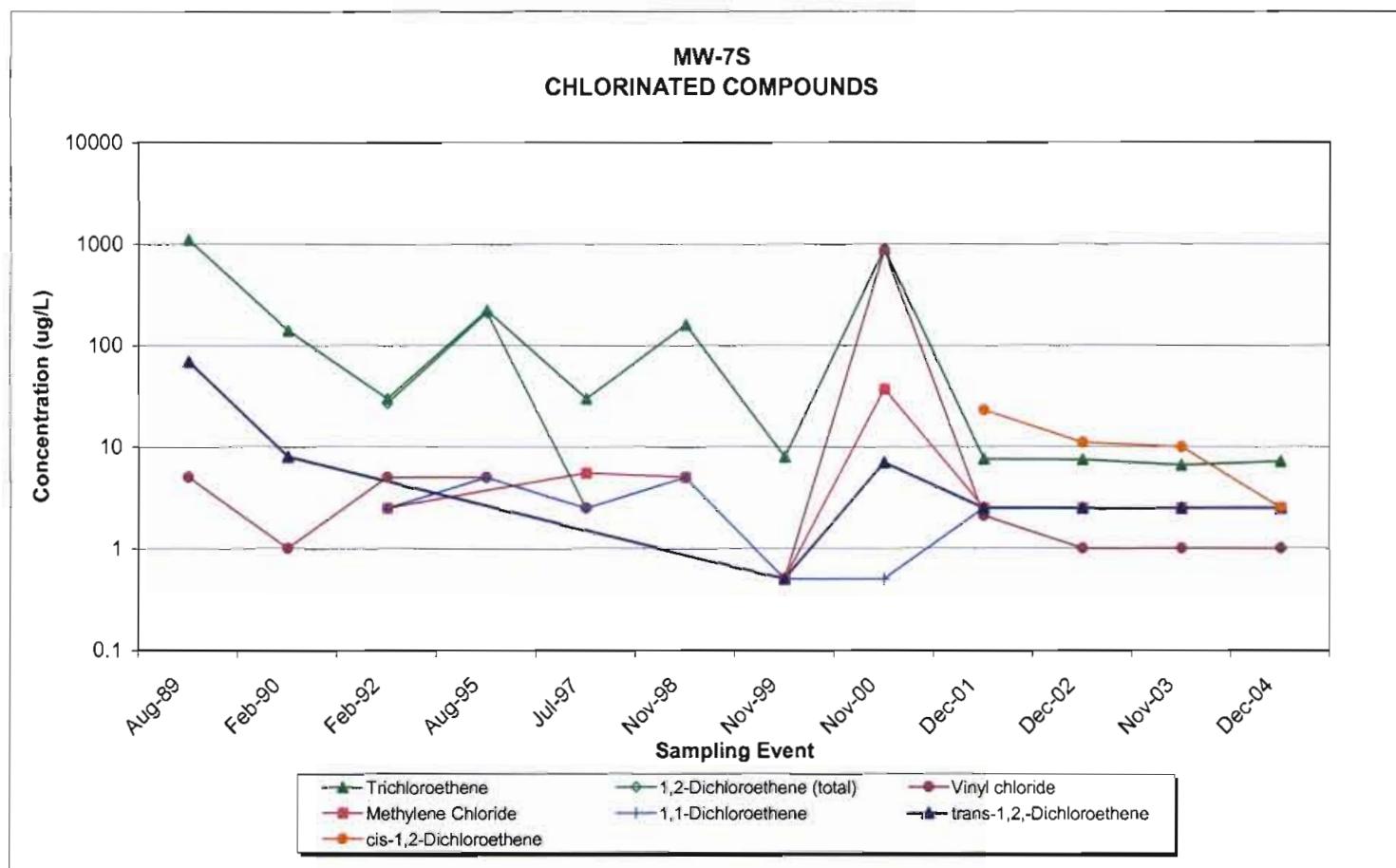


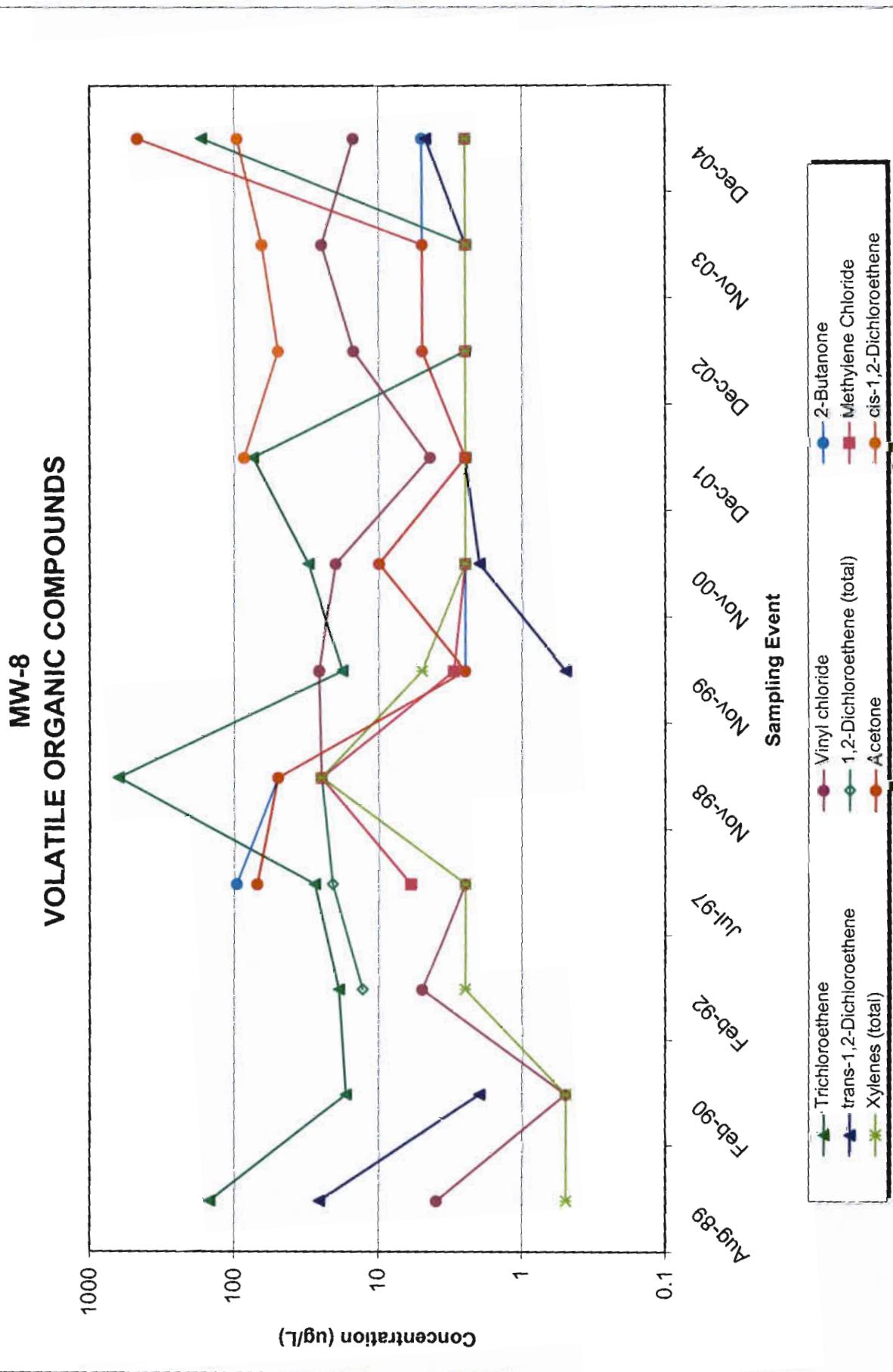


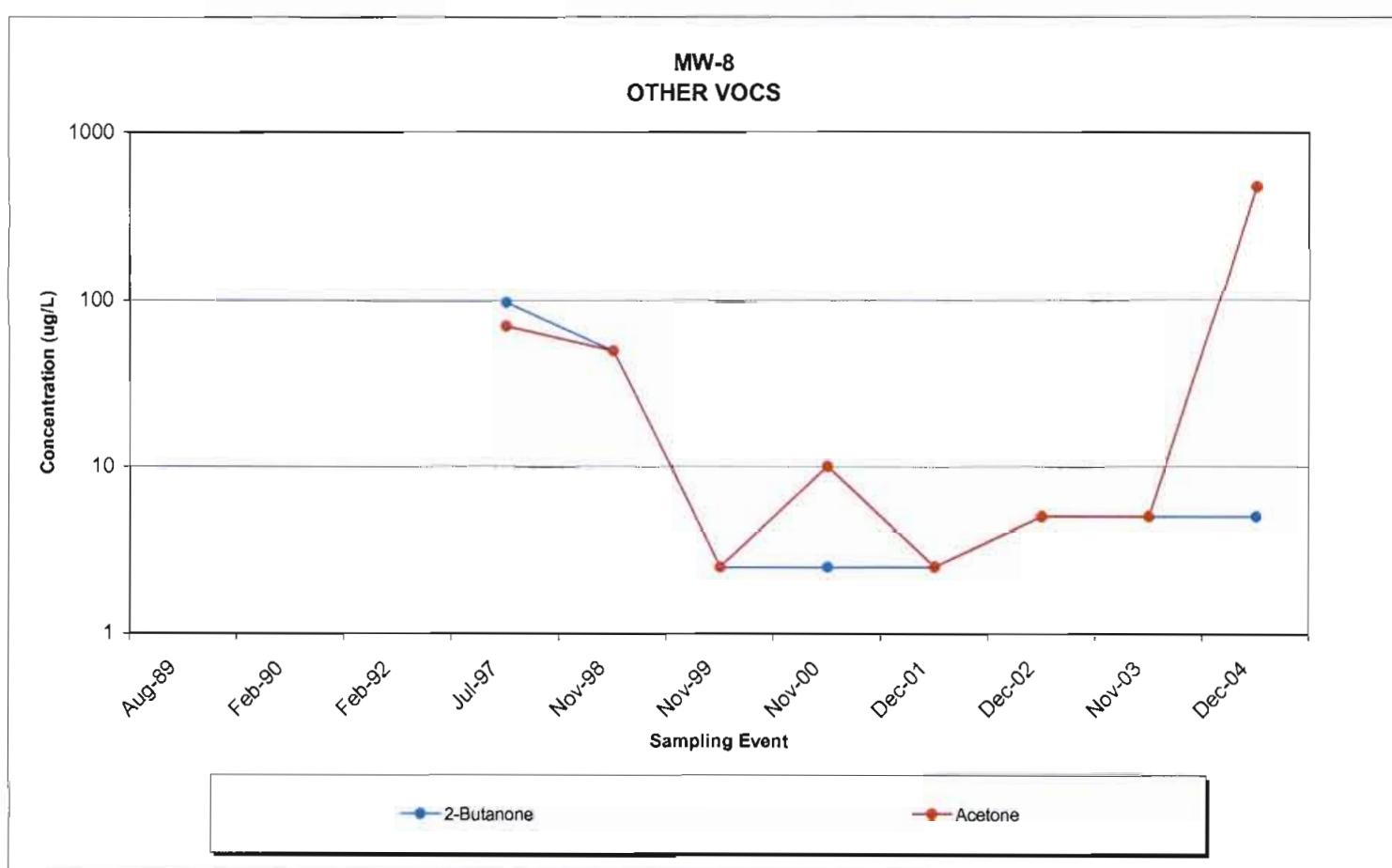
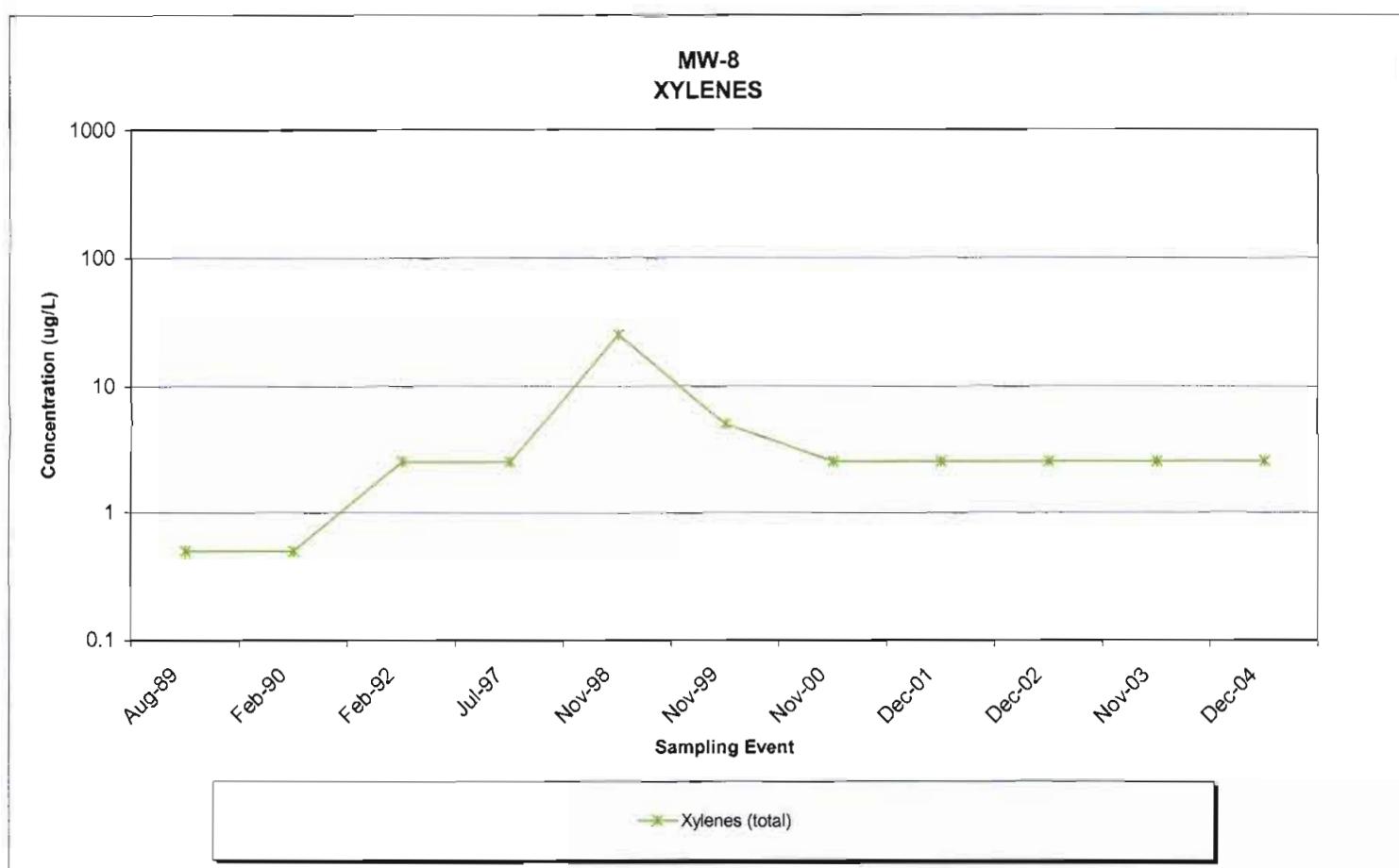
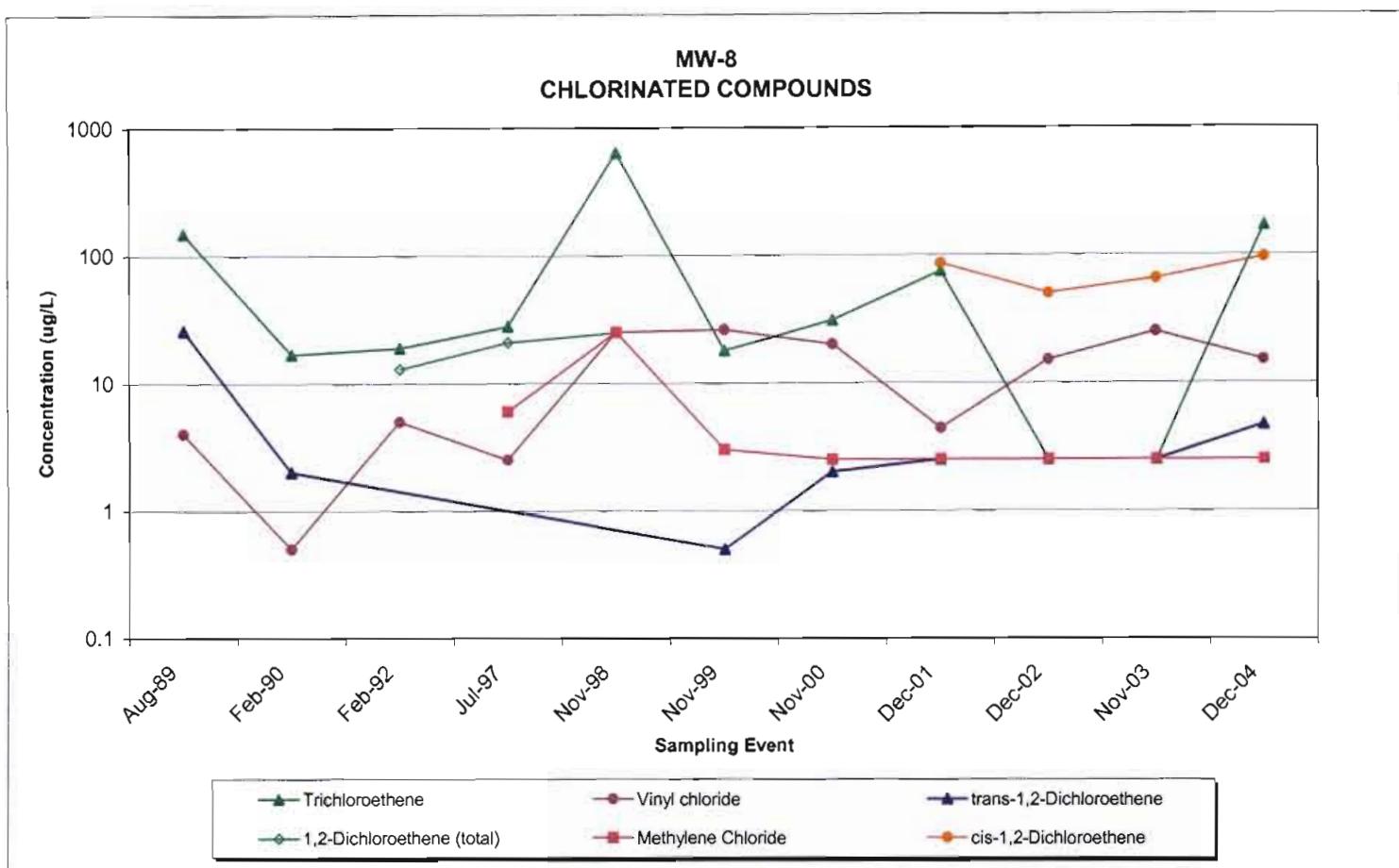


MW-7S **VOLATILE ORGANIC COMPOUNDS**

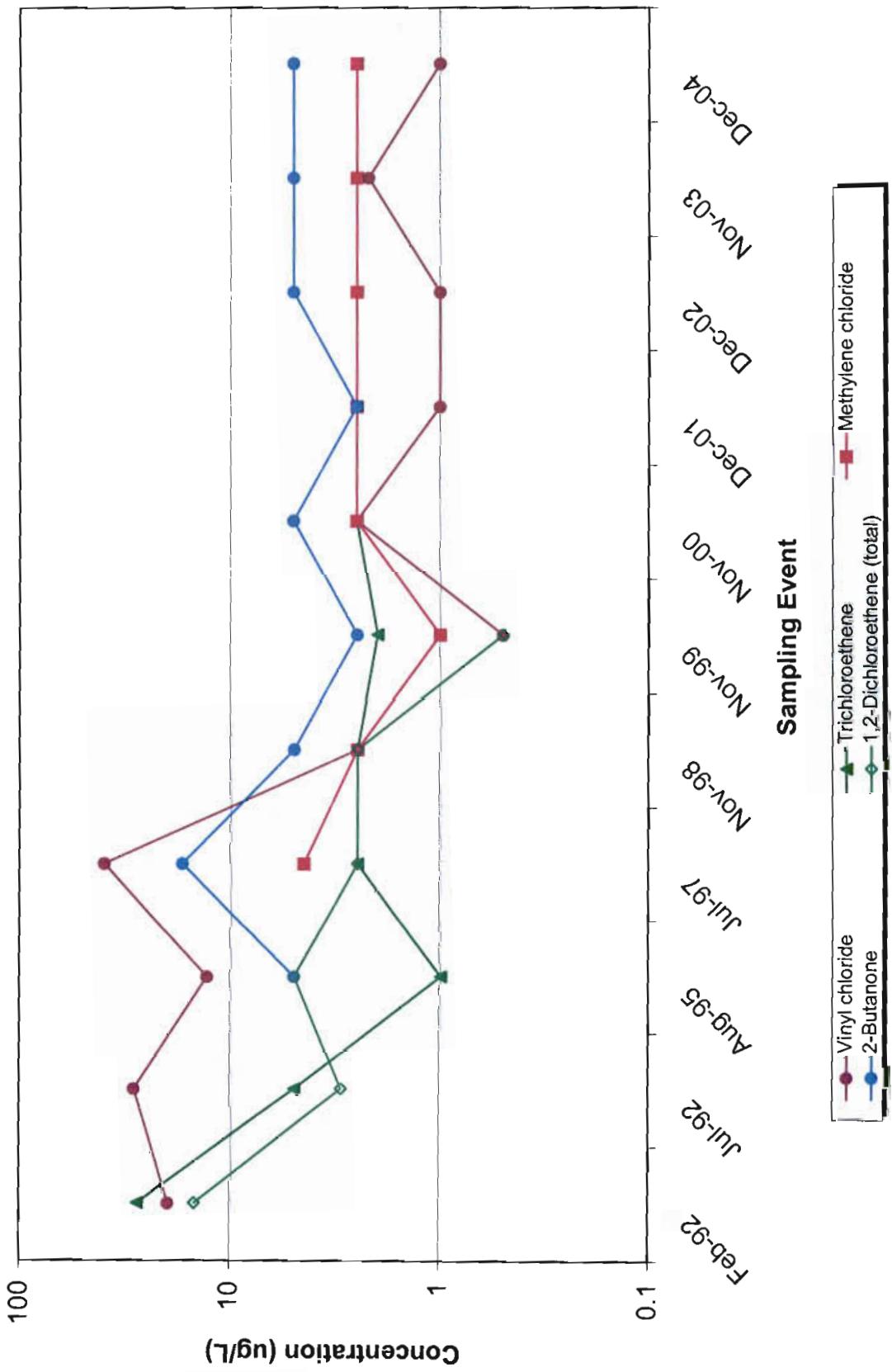


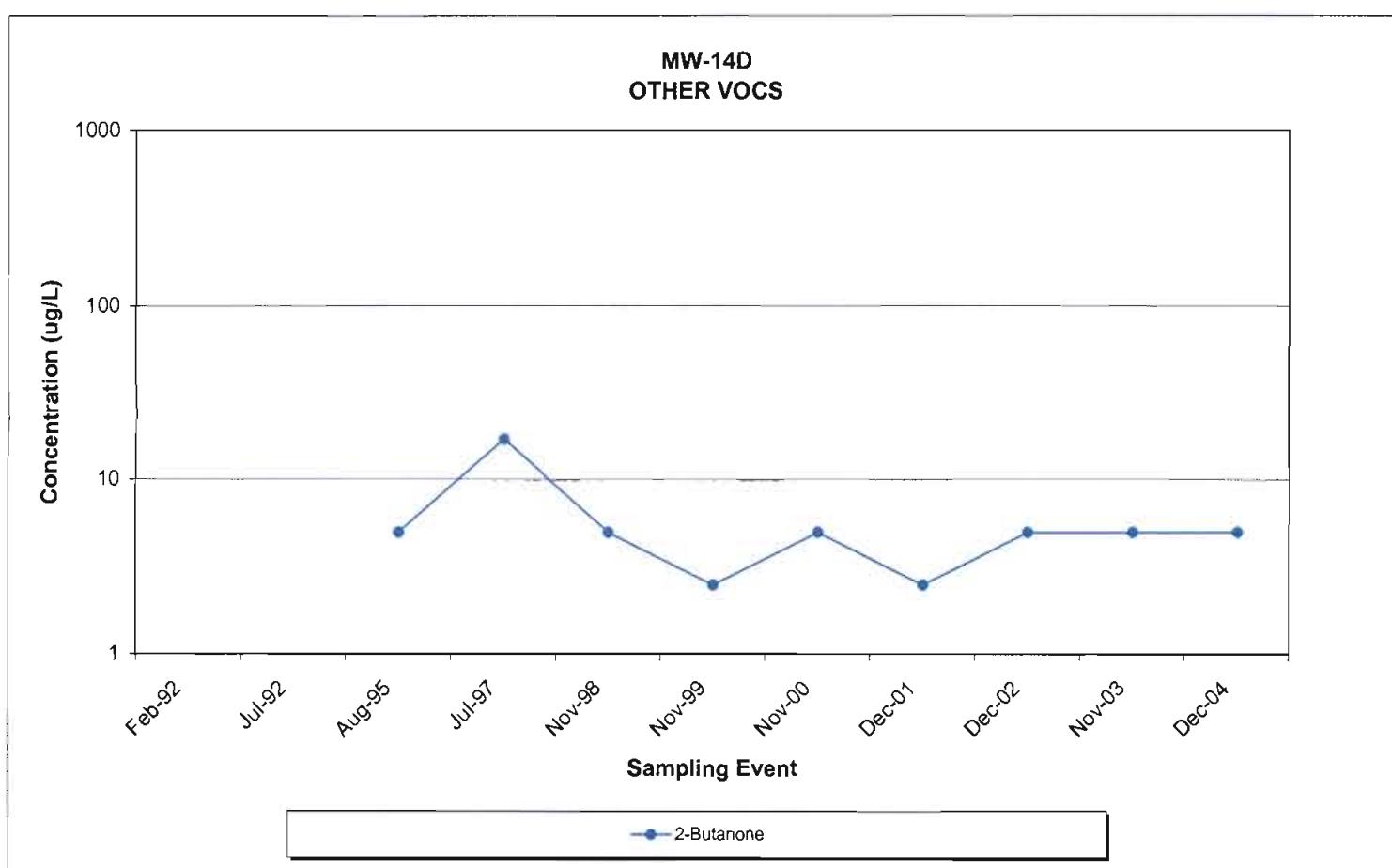
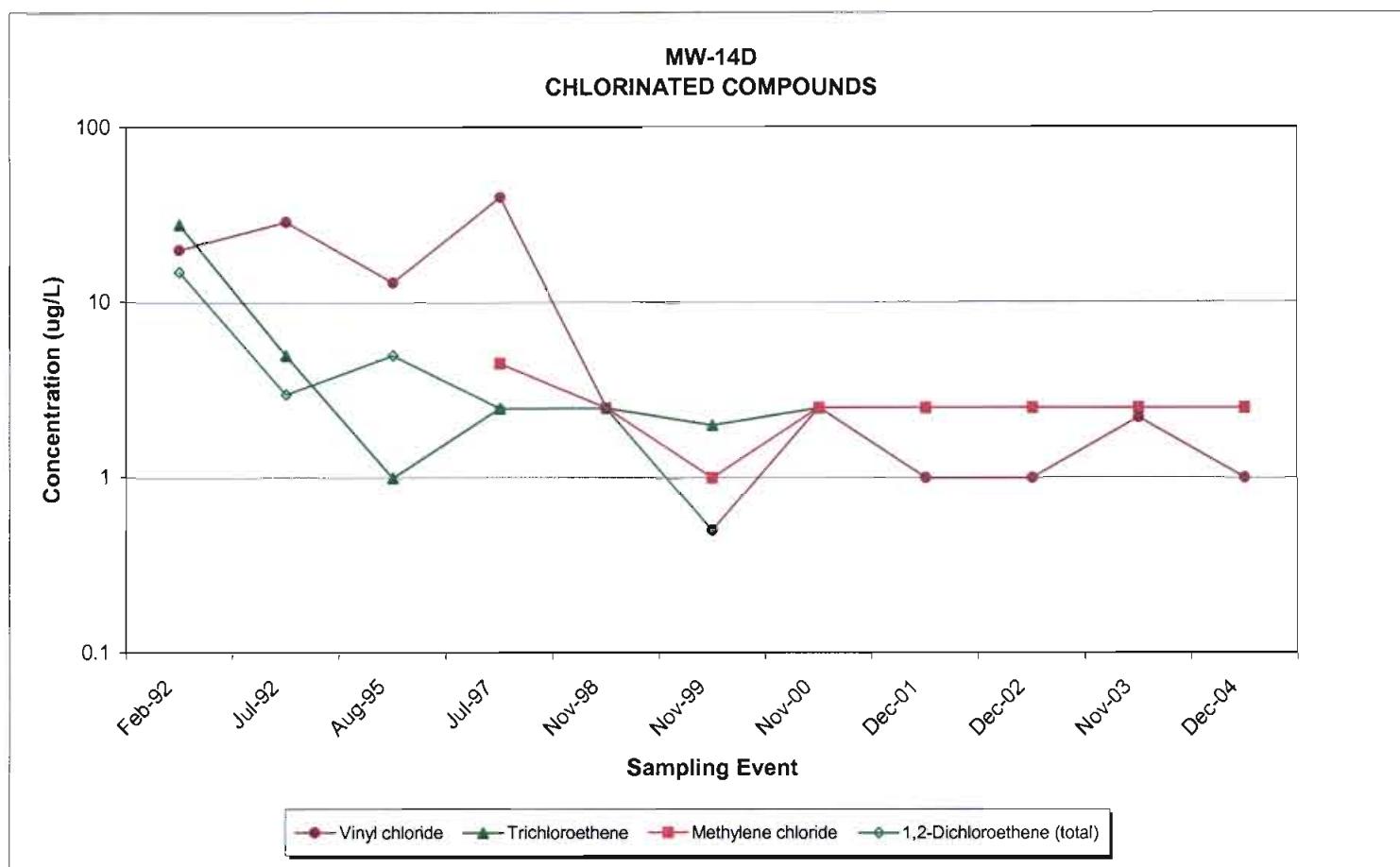




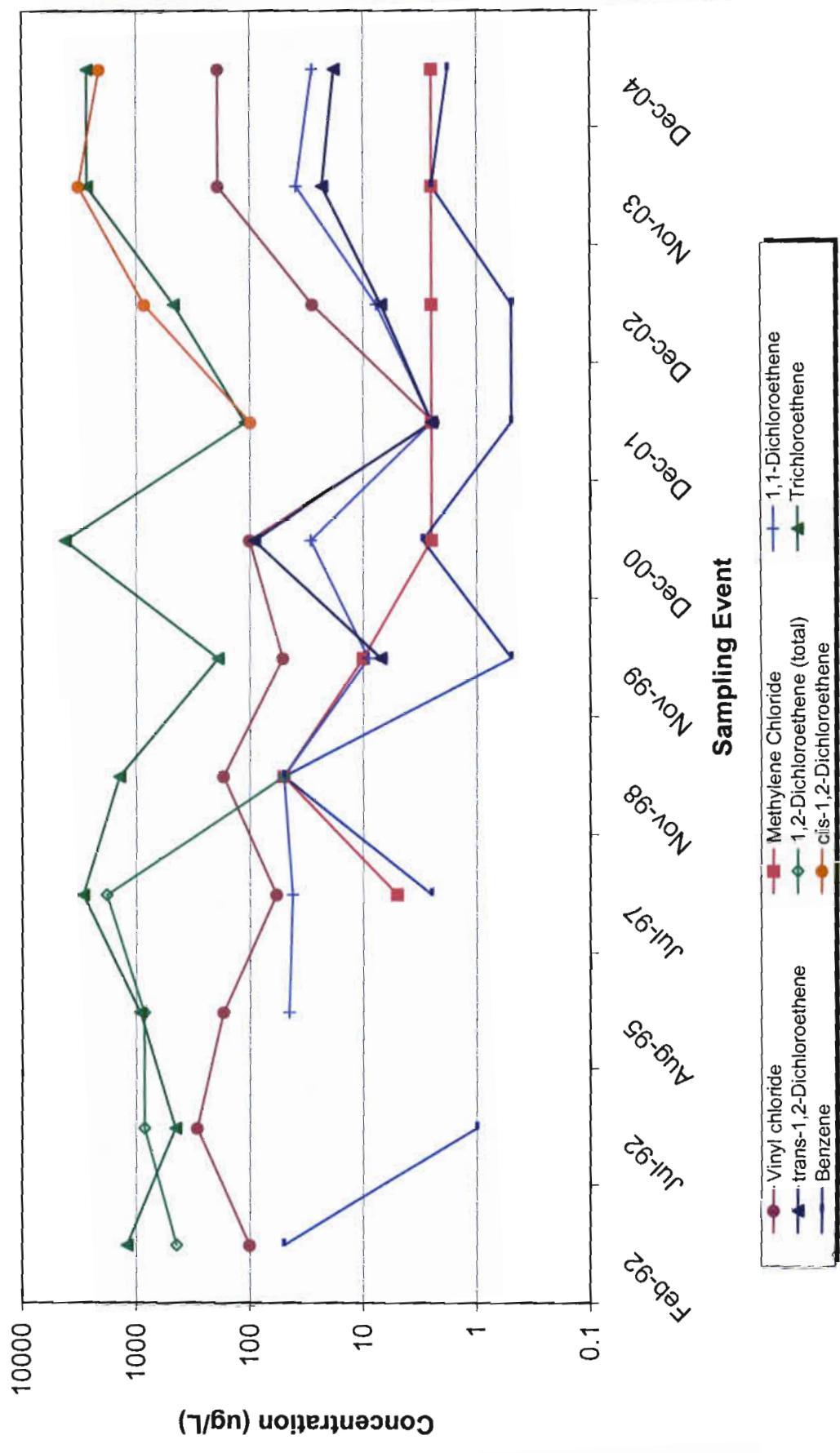


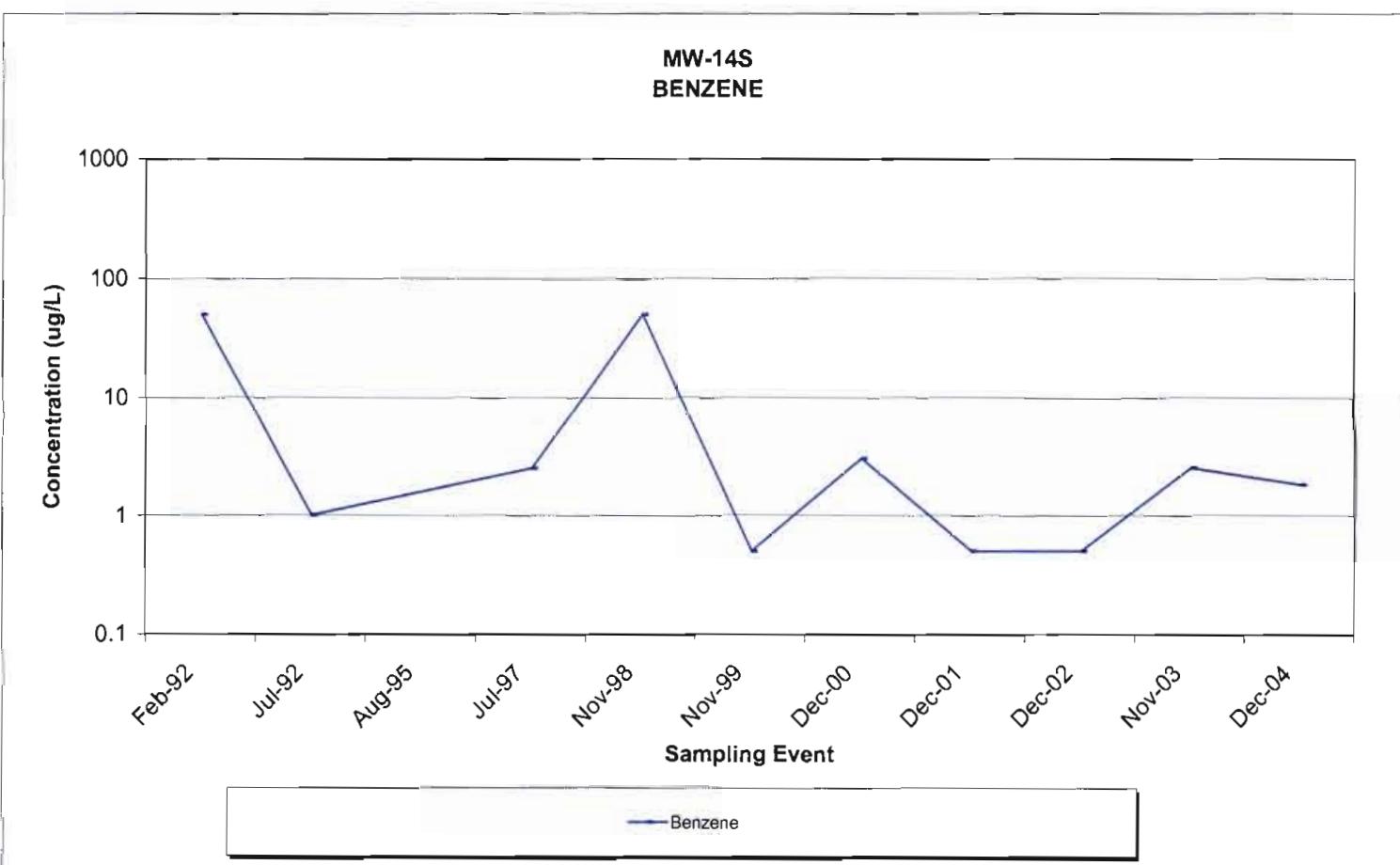
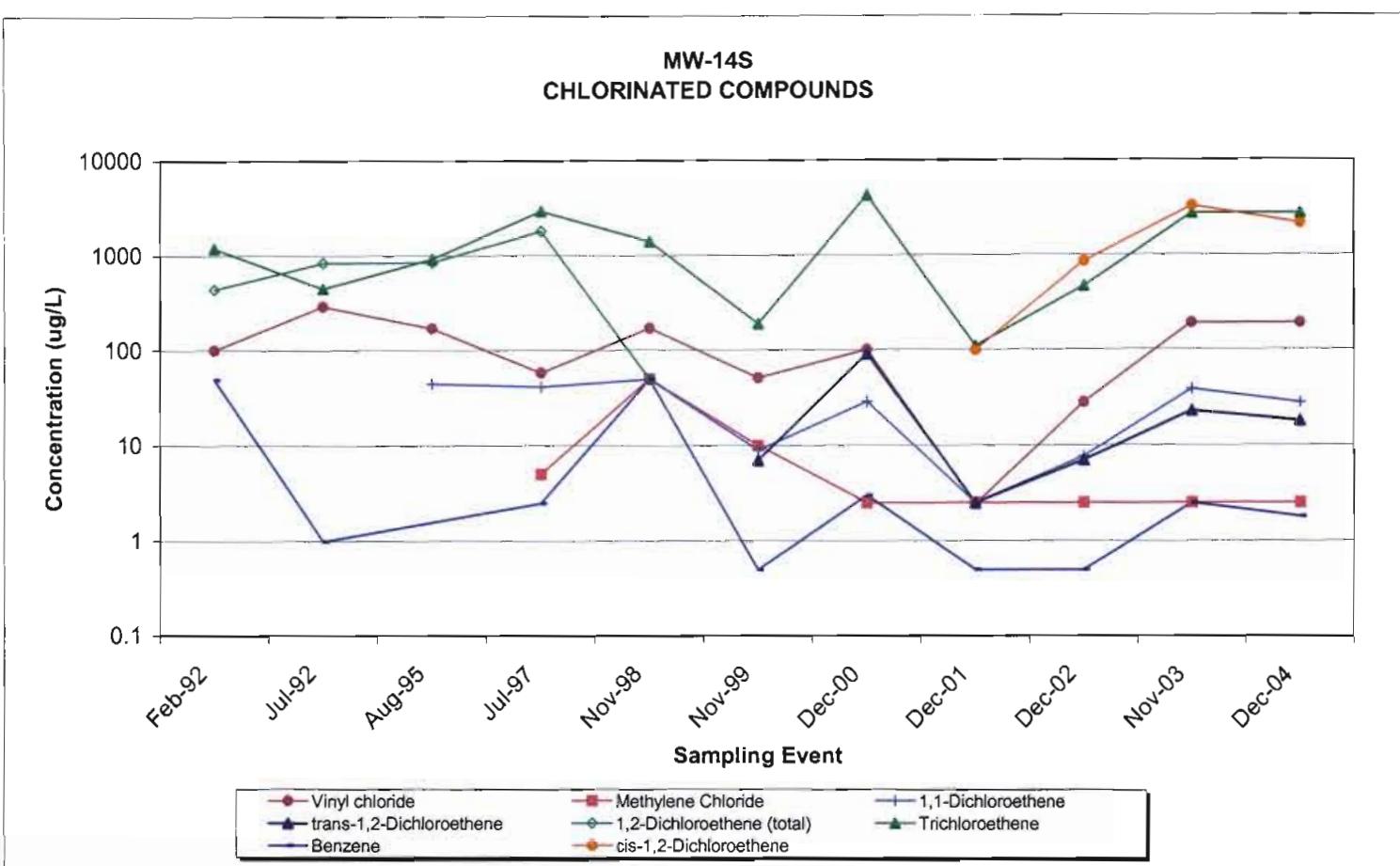
MW-14D VOLATILE ORGANIC COMPOUNDS

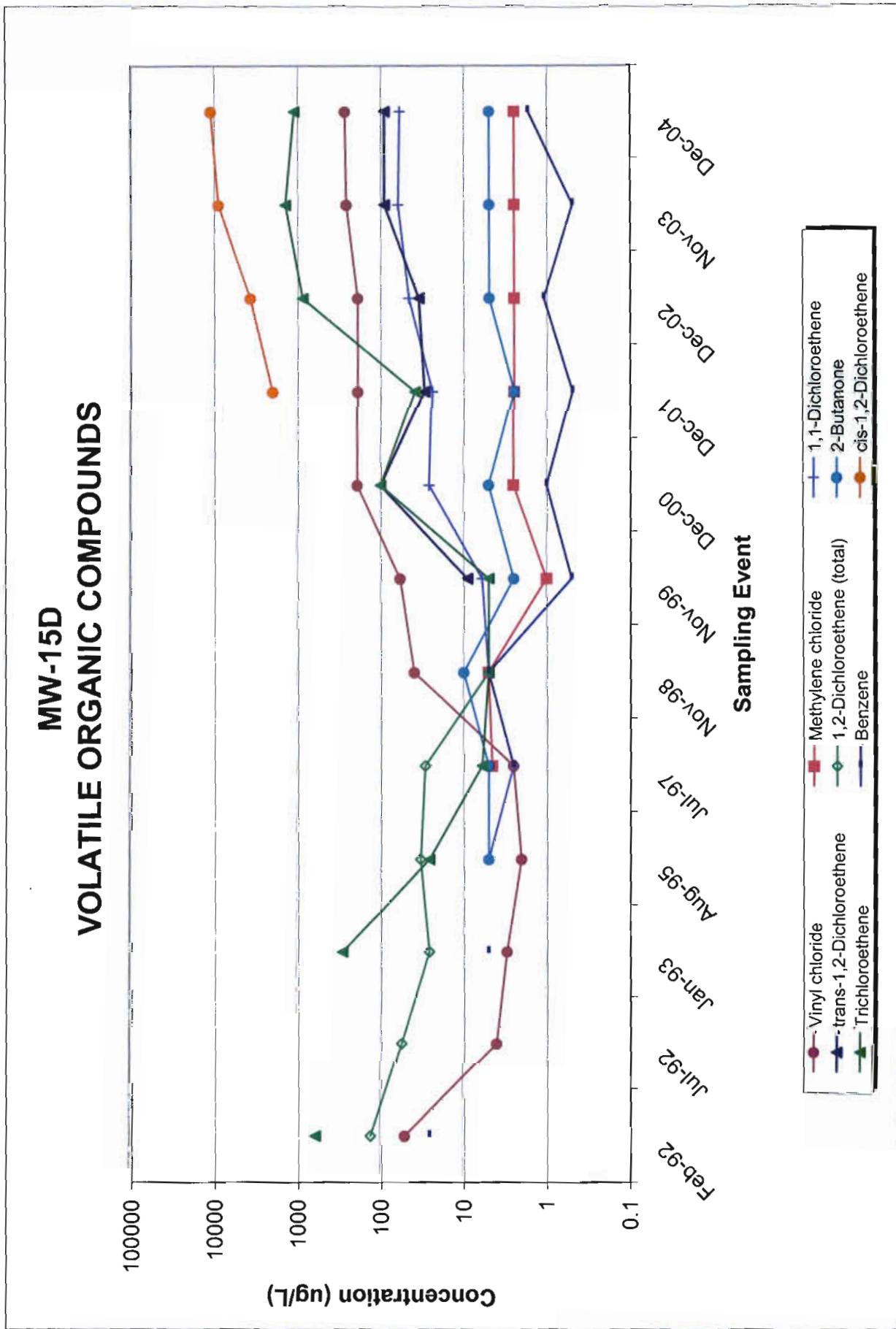


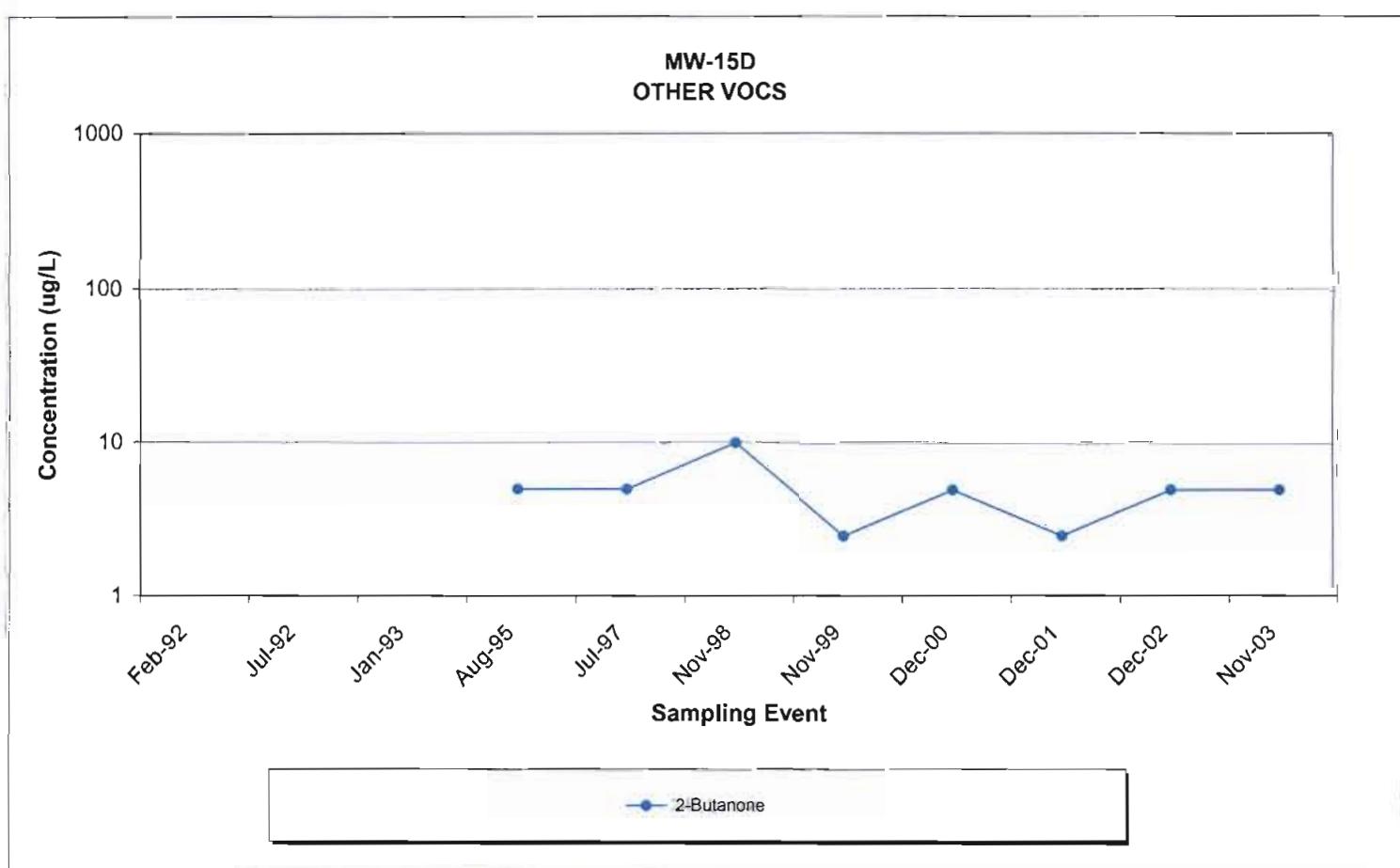
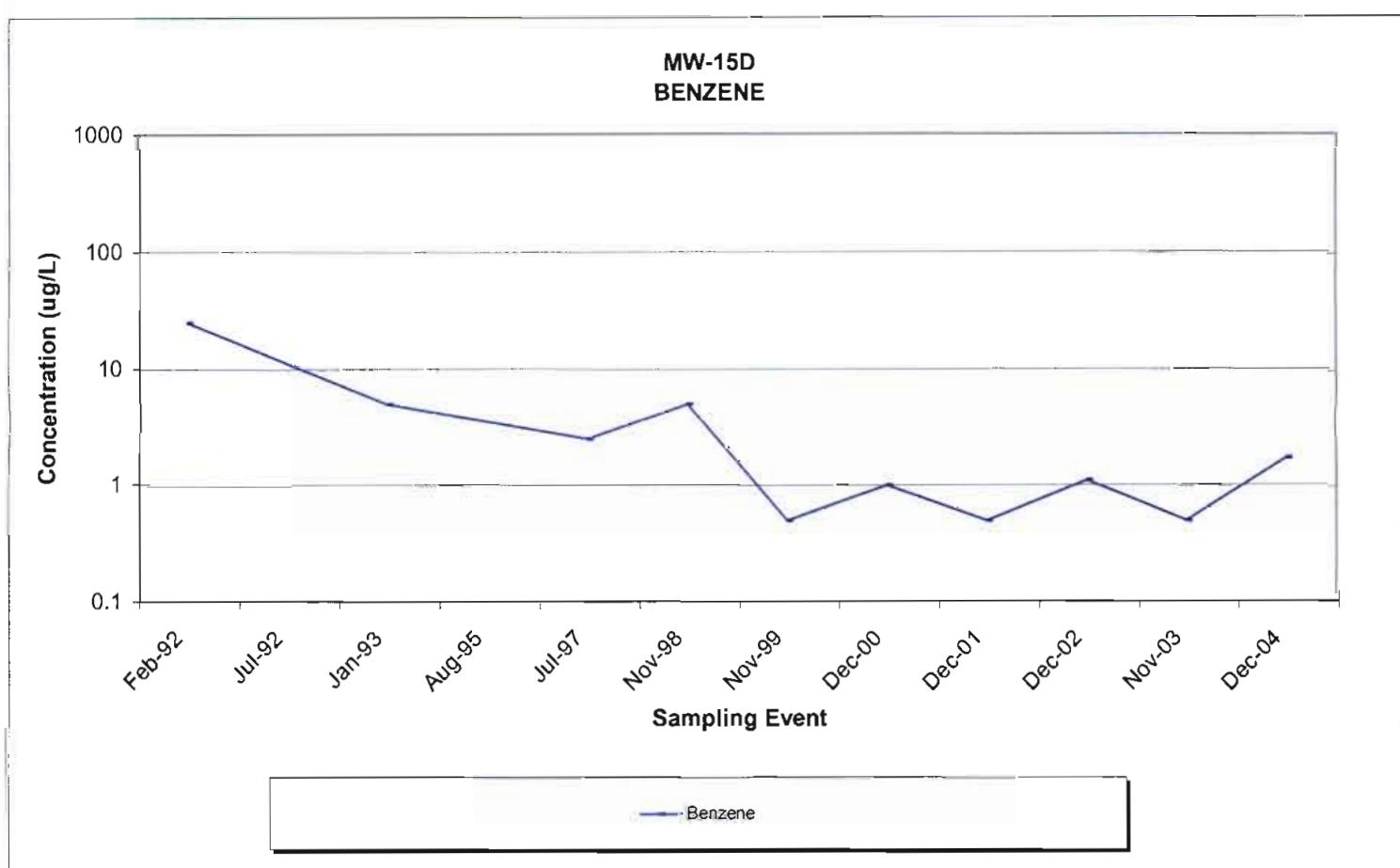
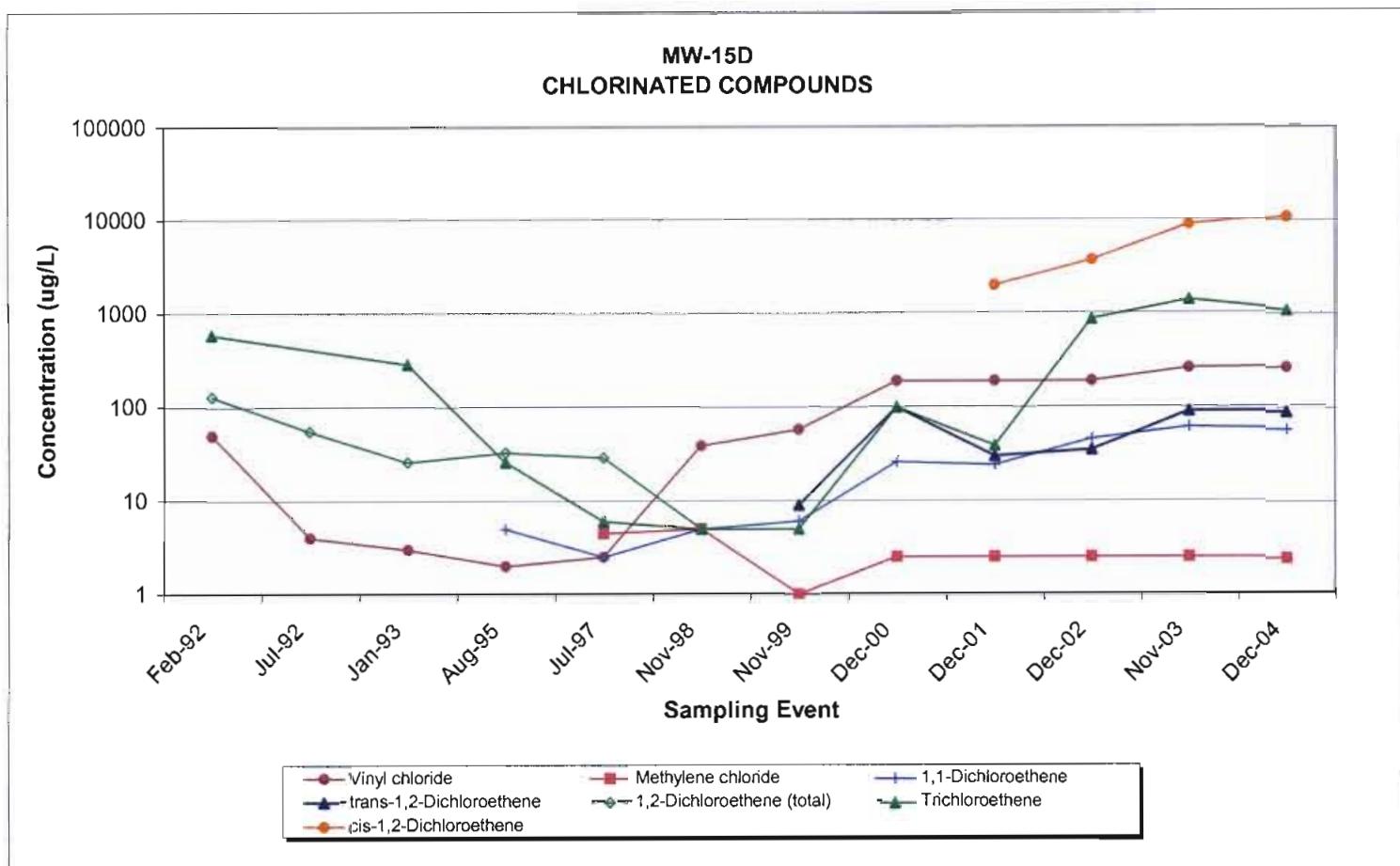


MW-14S VOLATILE ORGANIC COMPOUNDS

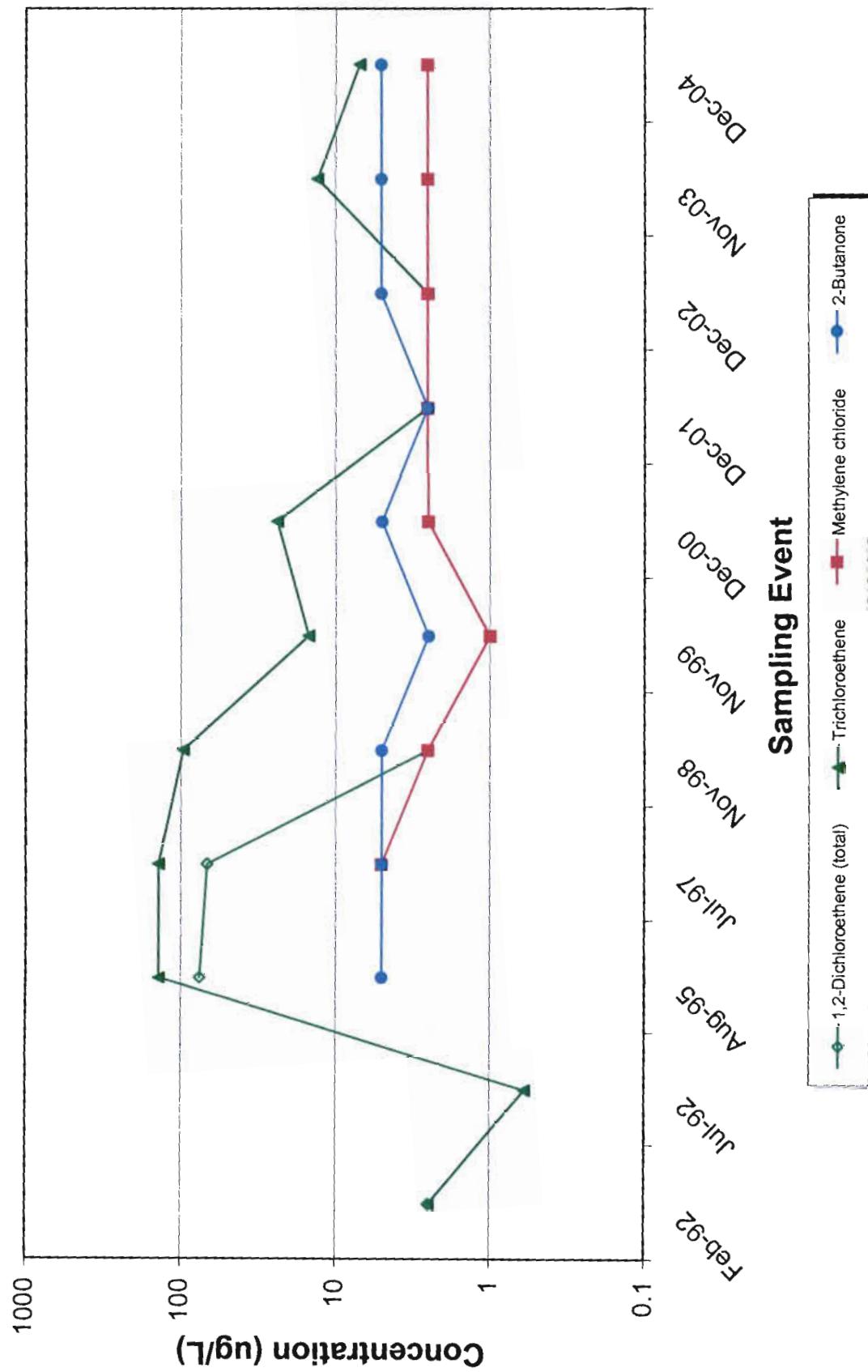


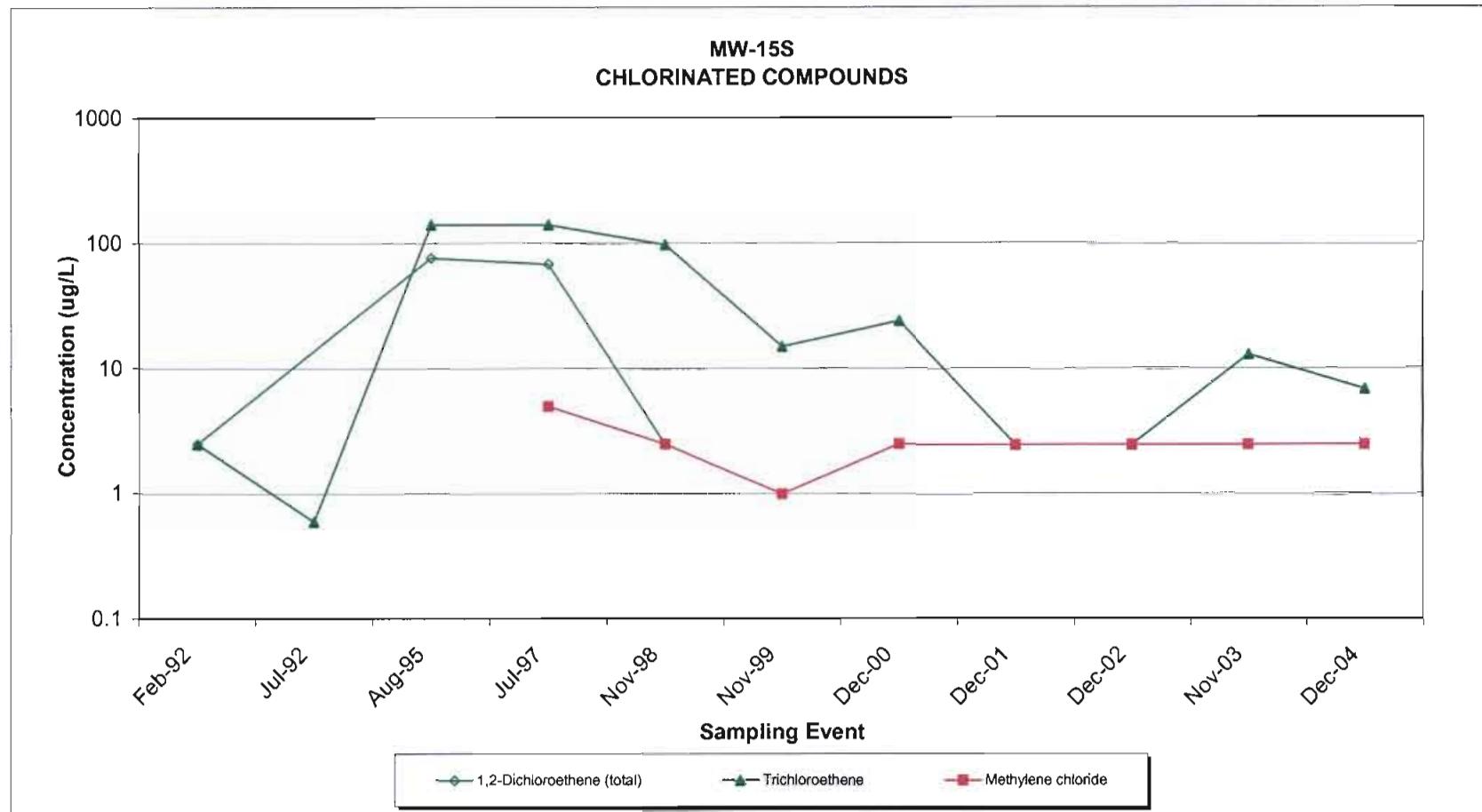




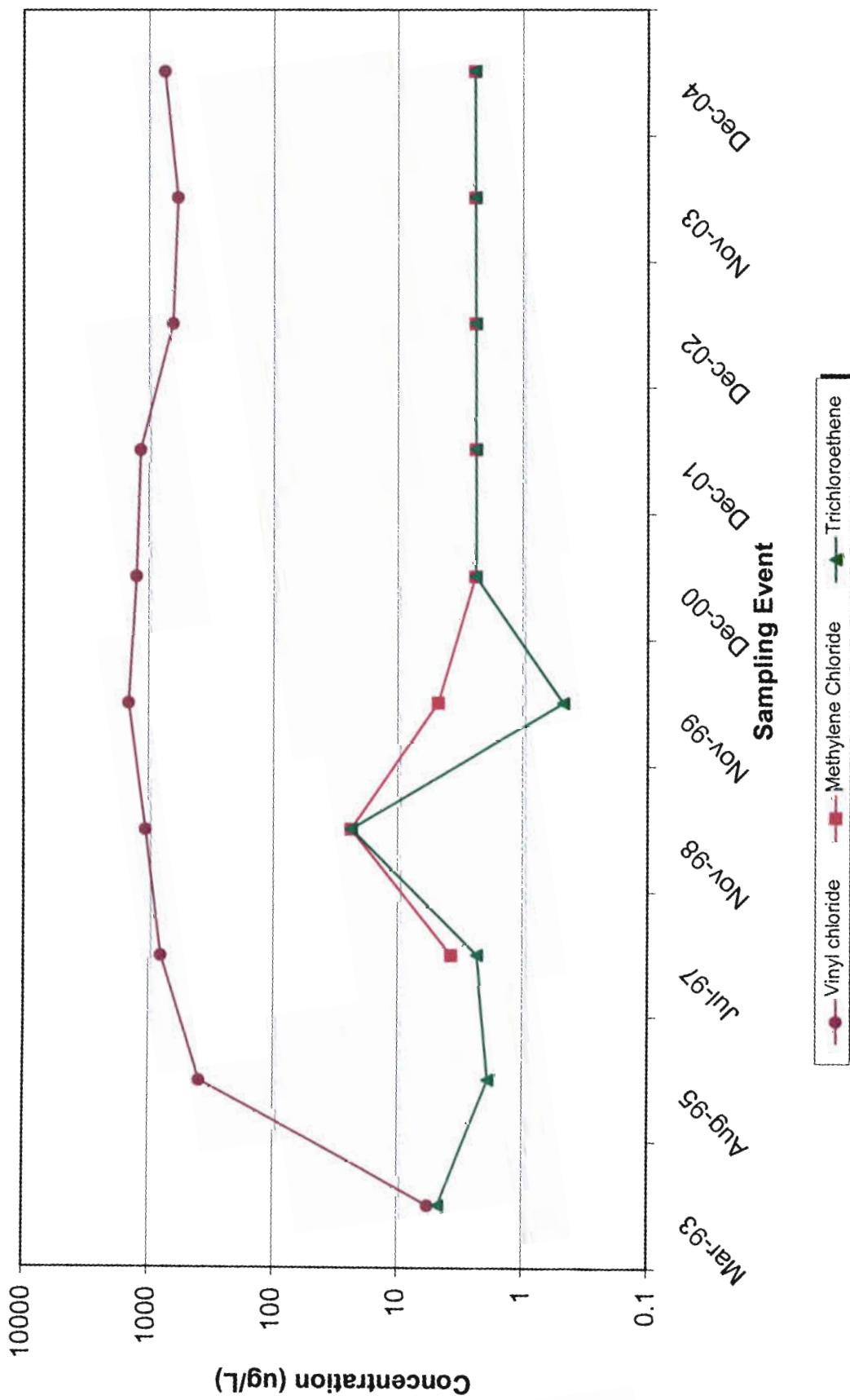


MW-15S VOLATILE ORGANIC COMPOUNDS

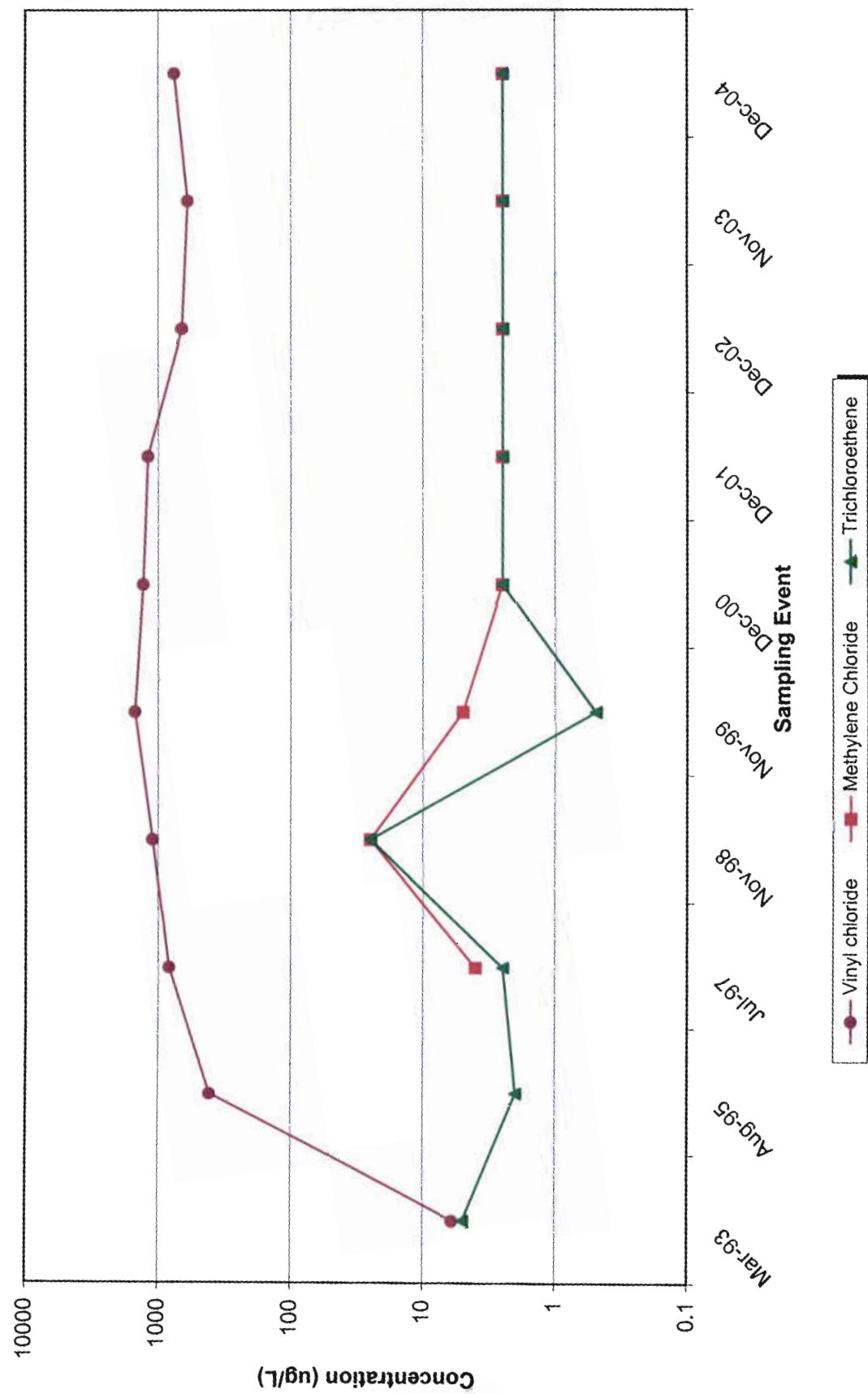


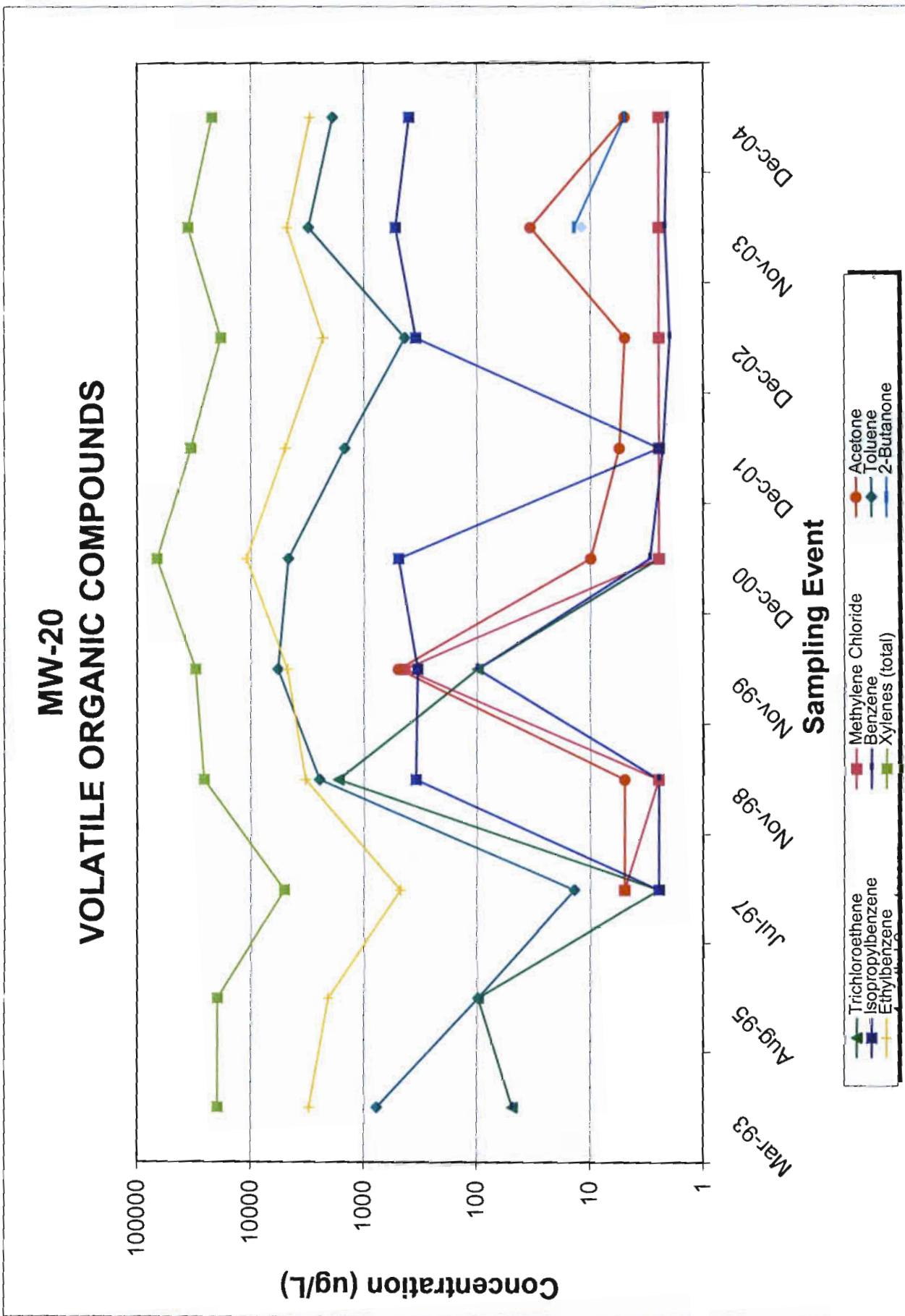


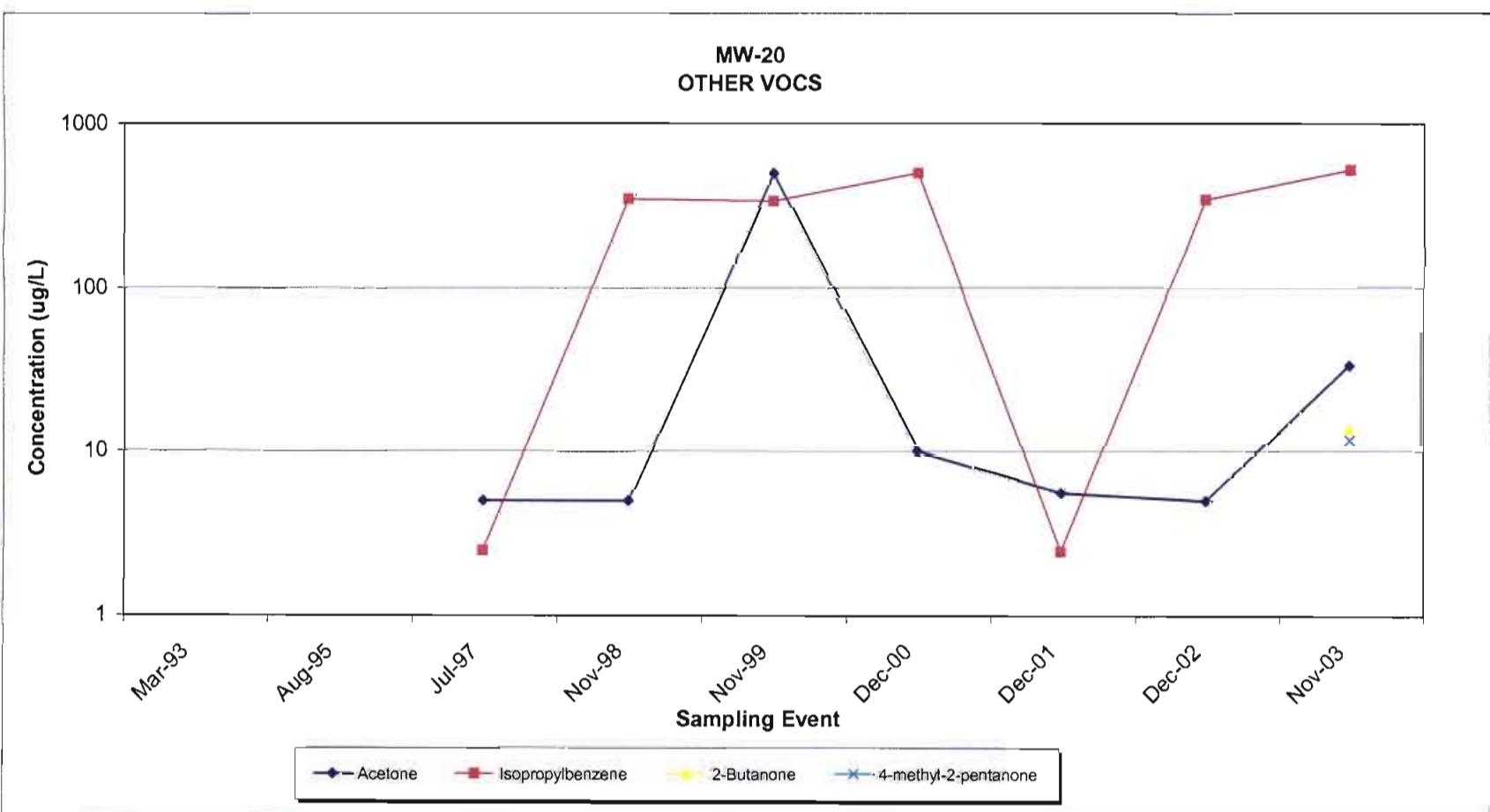
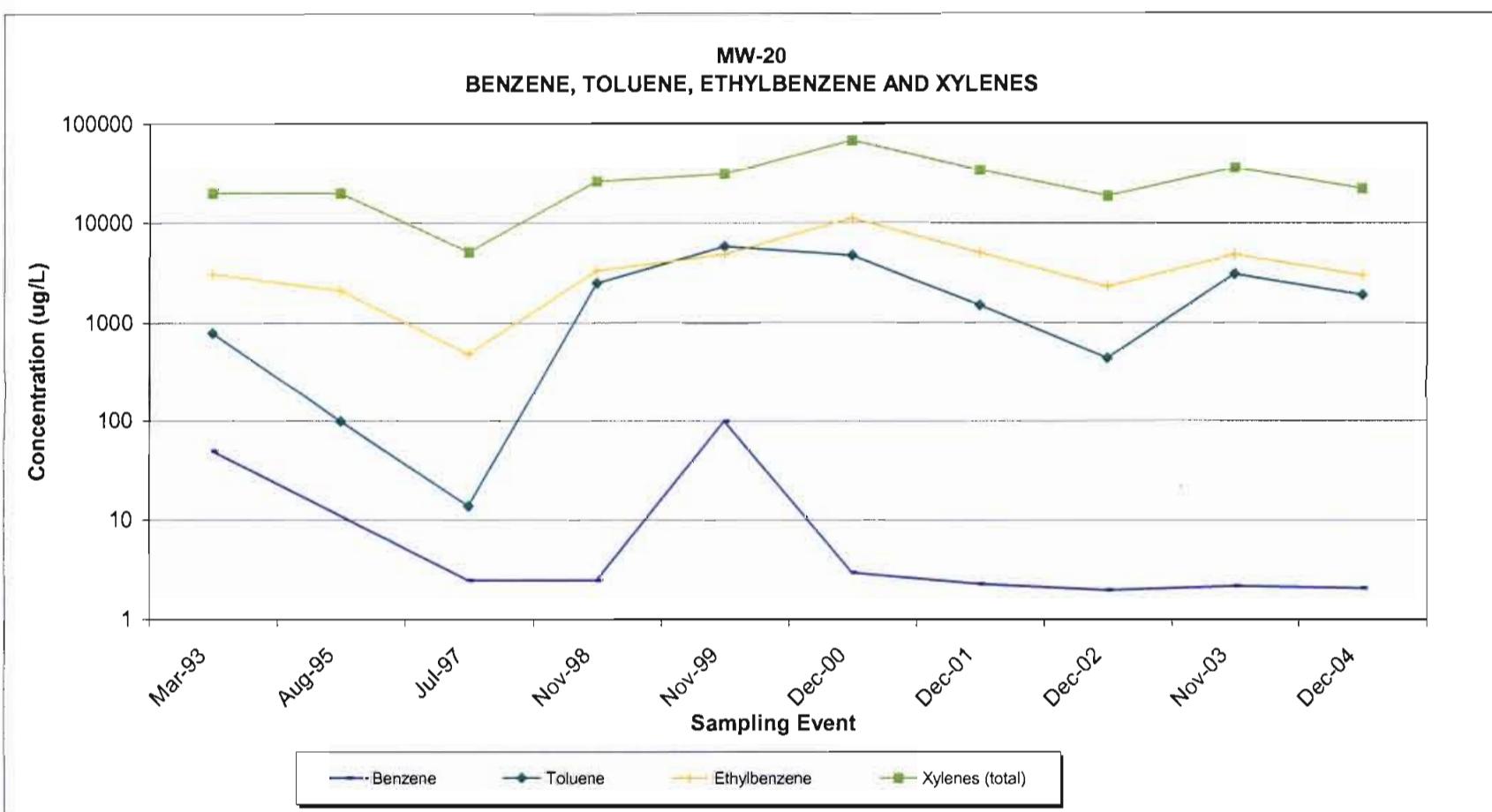
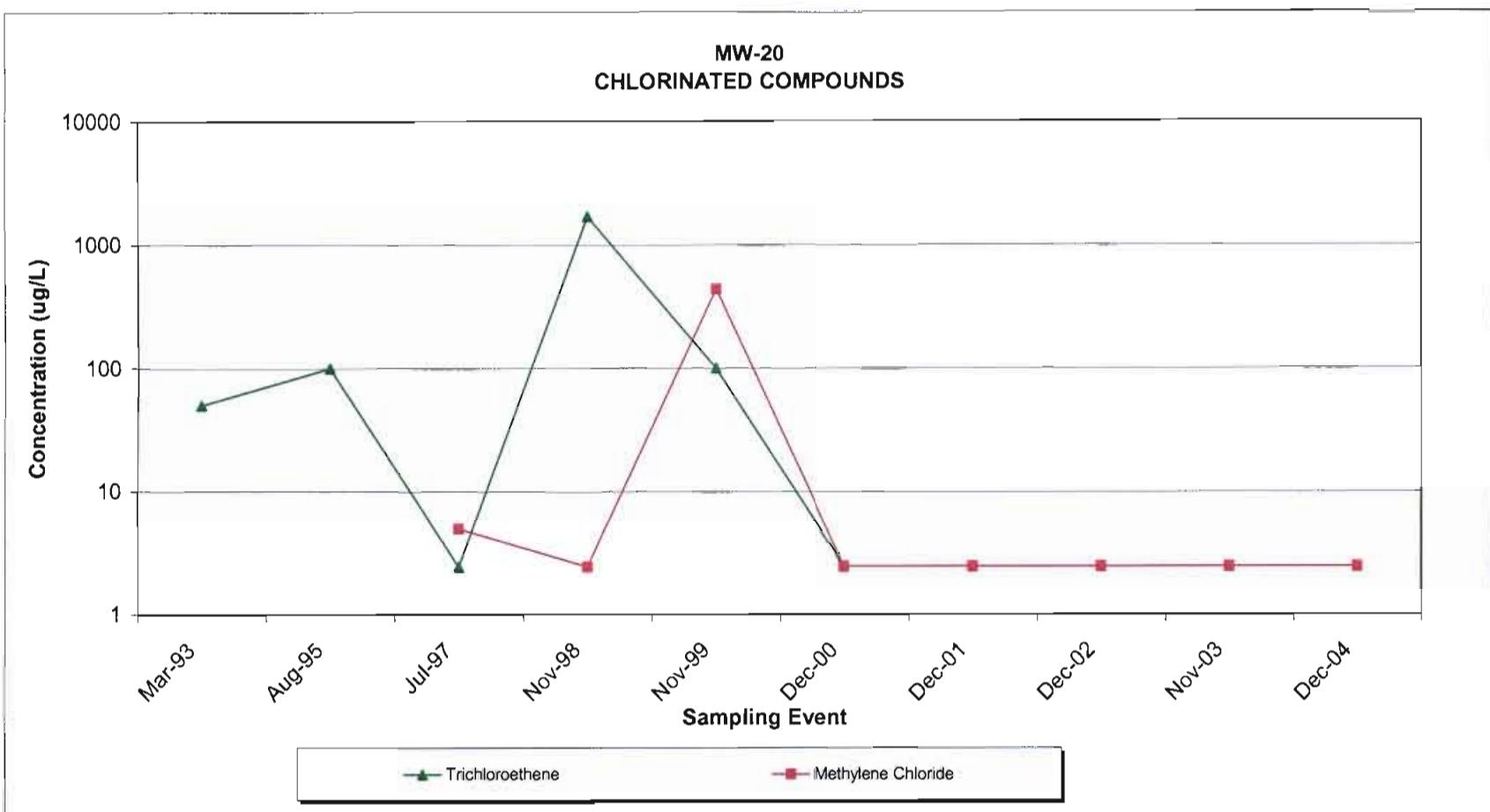
MW-19D VOLATILE ORGANIC COMPOUNDS



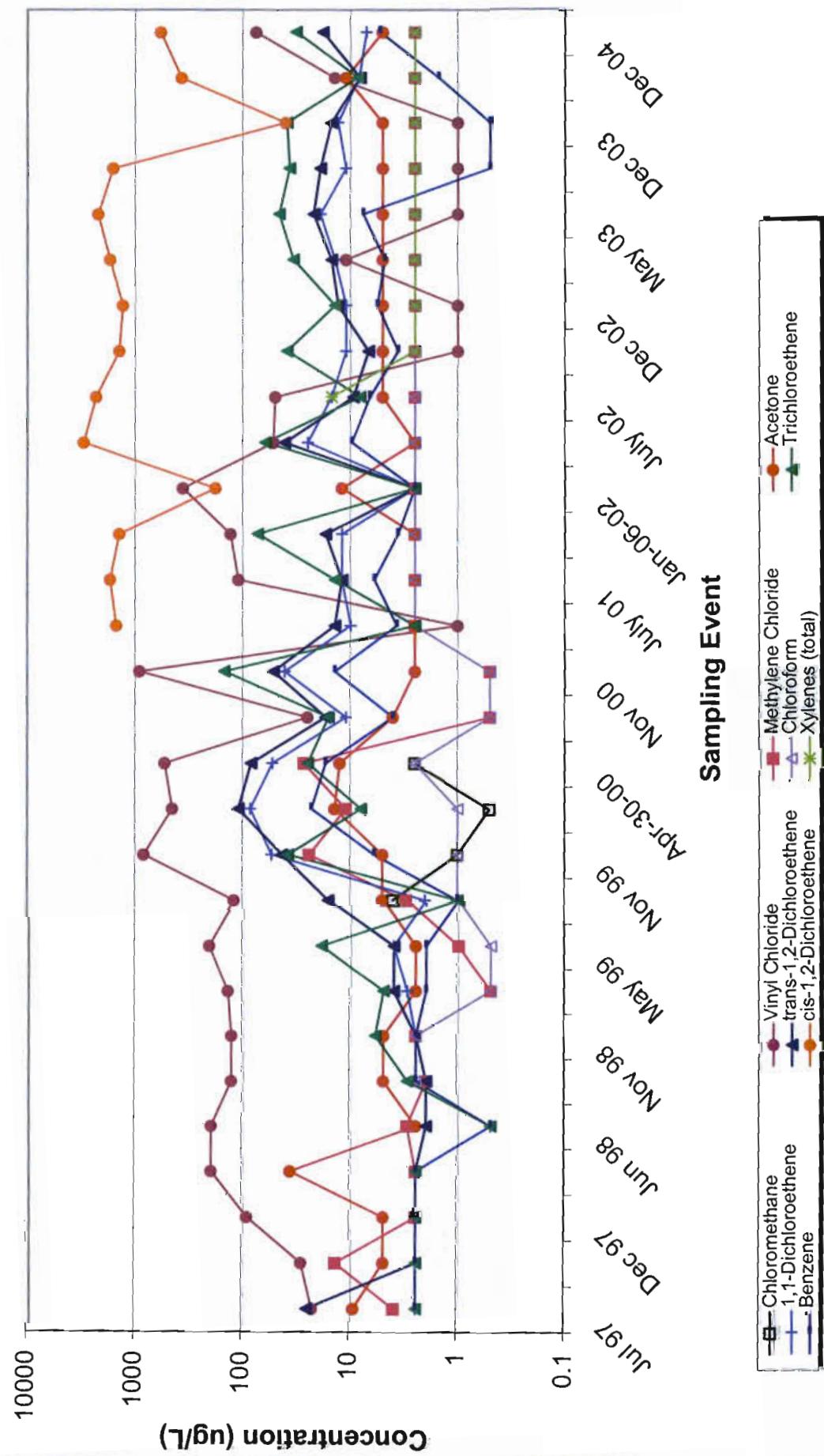
**MW-19D
CHLORINATED COMPOUNDS**

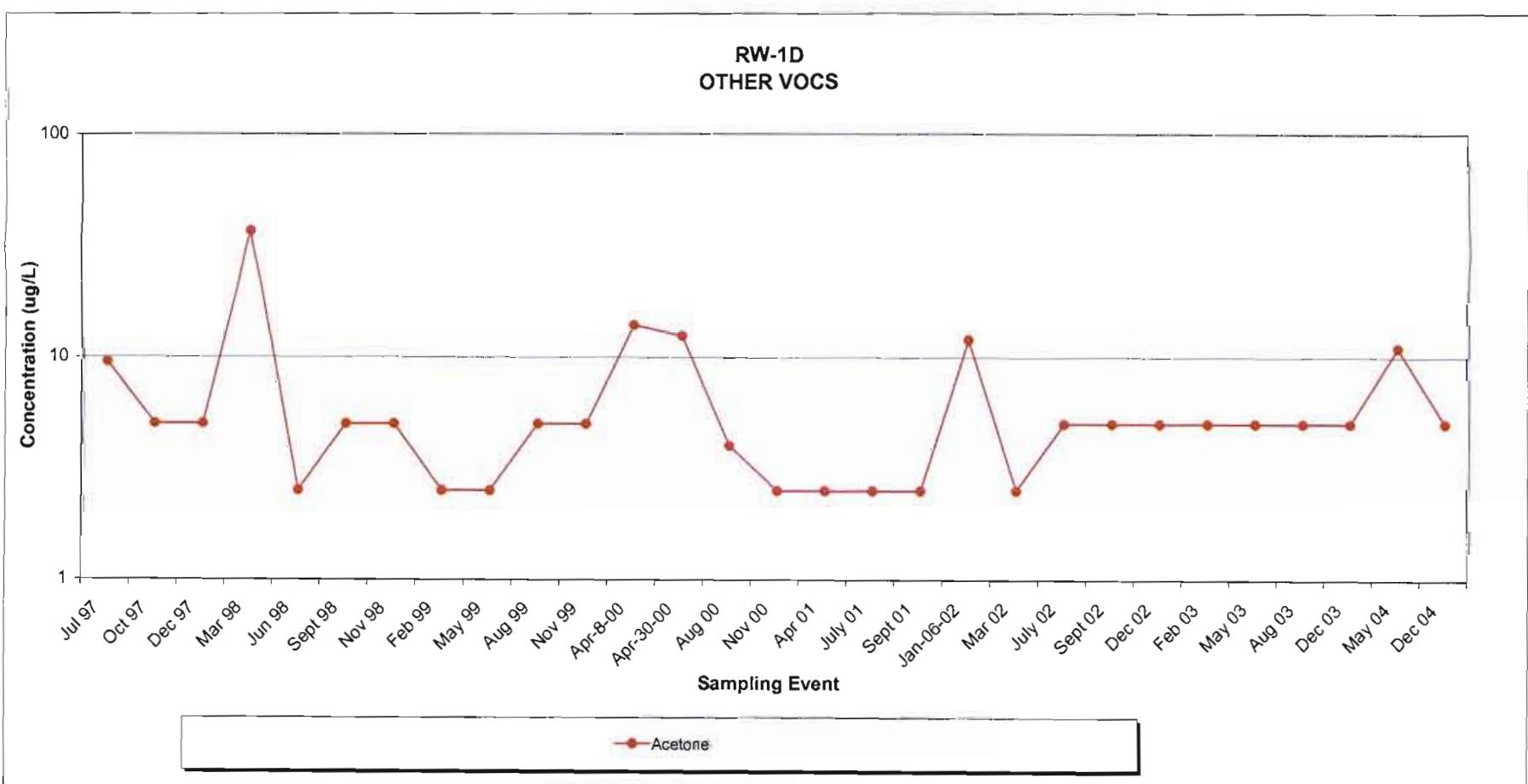
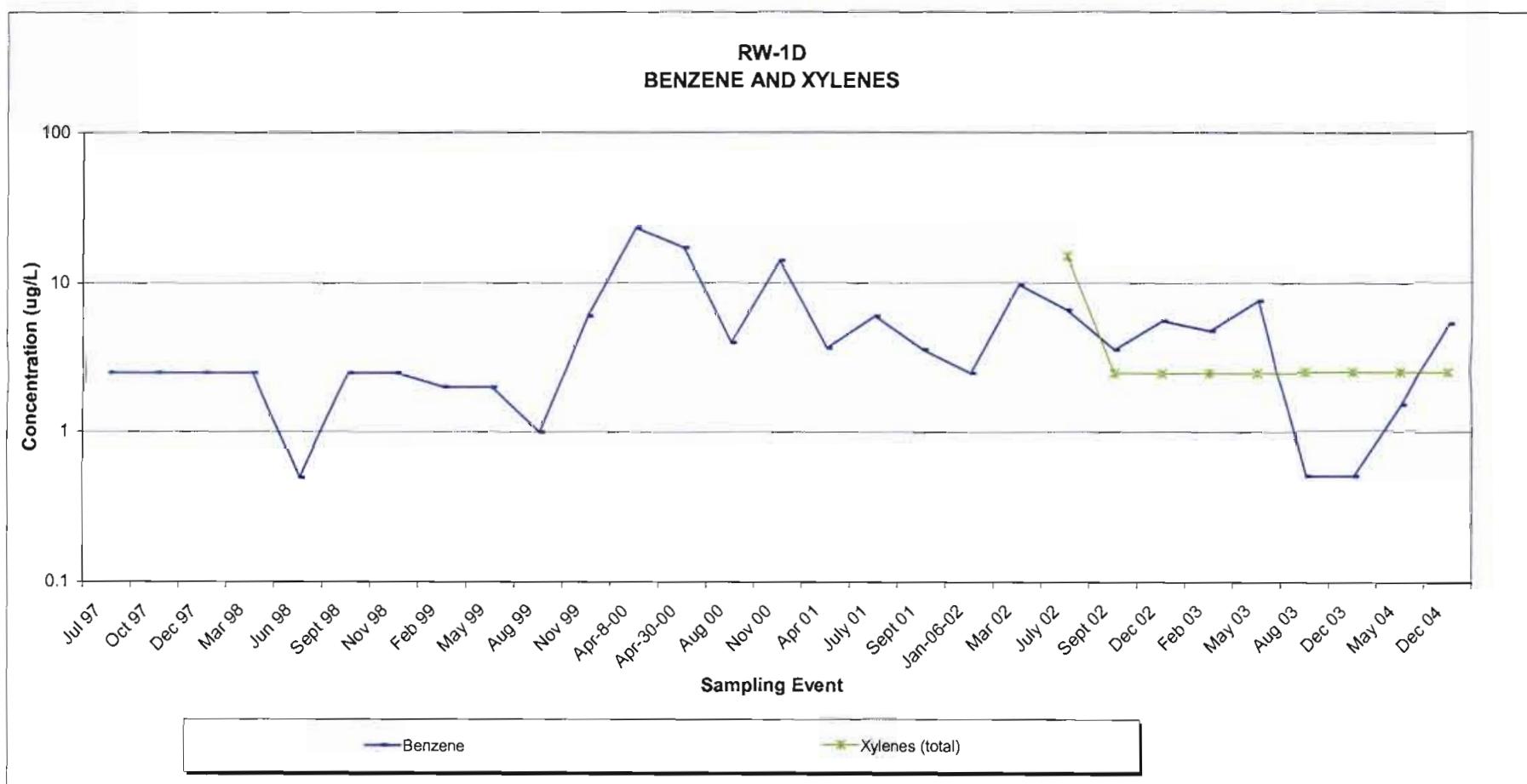
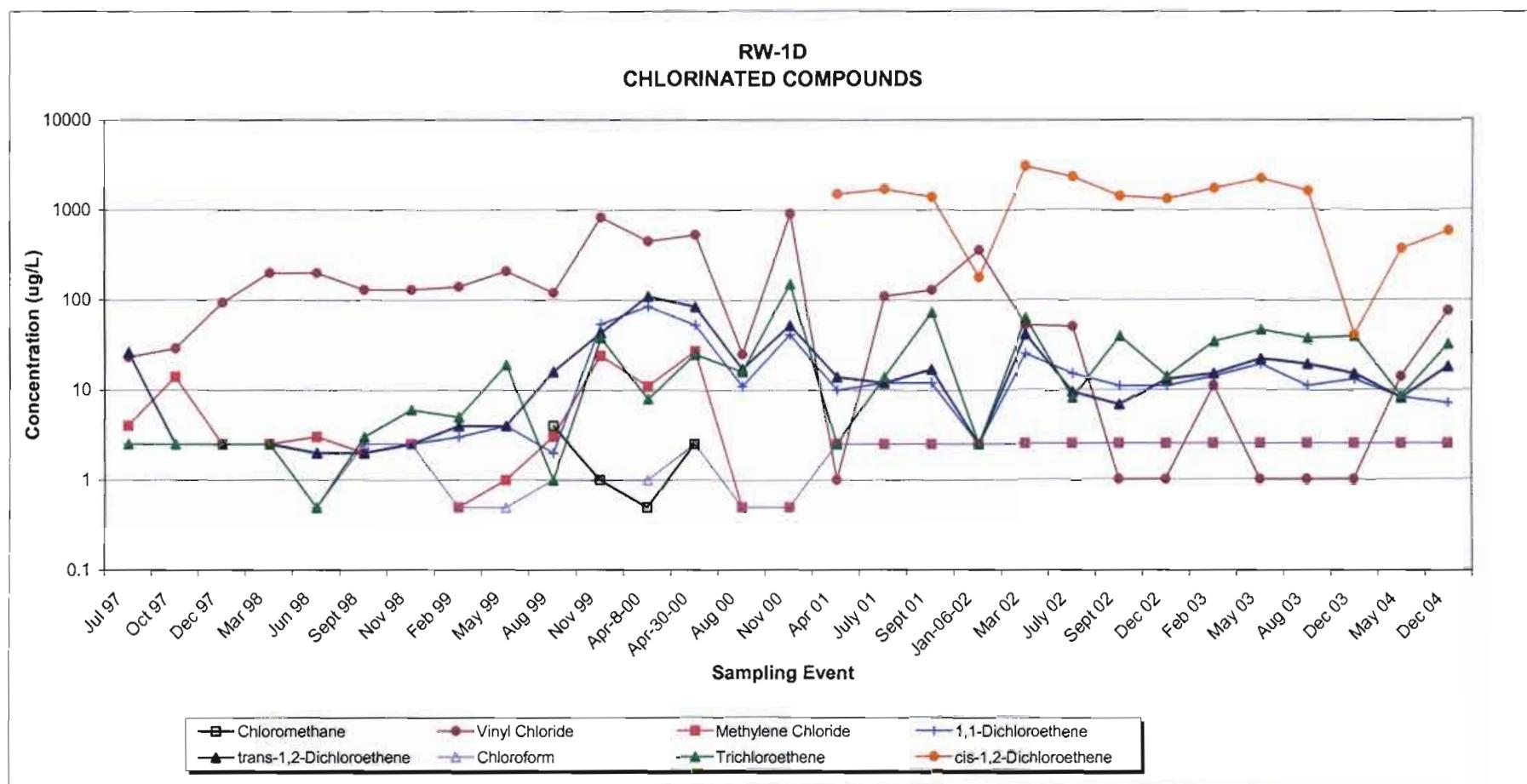




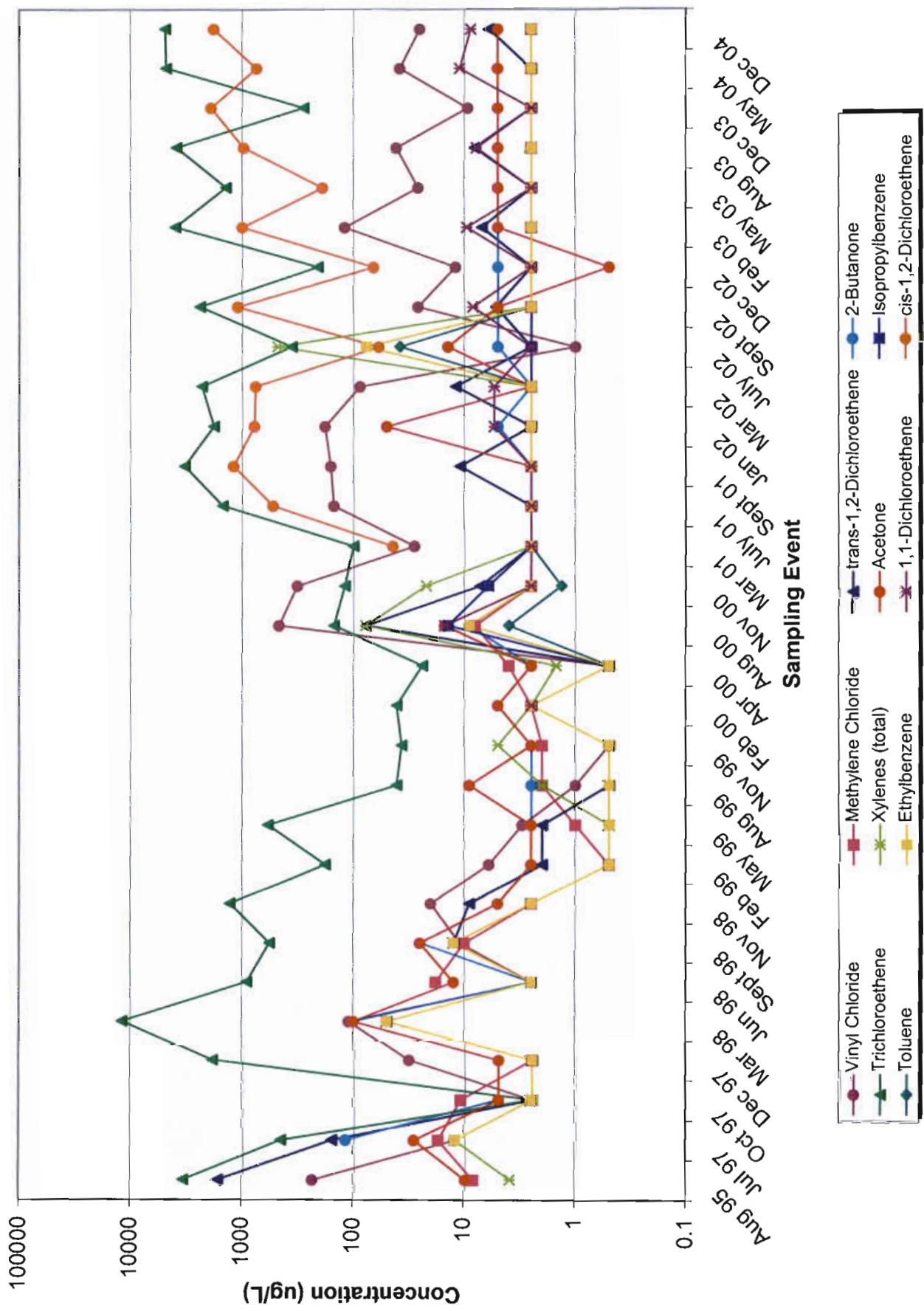


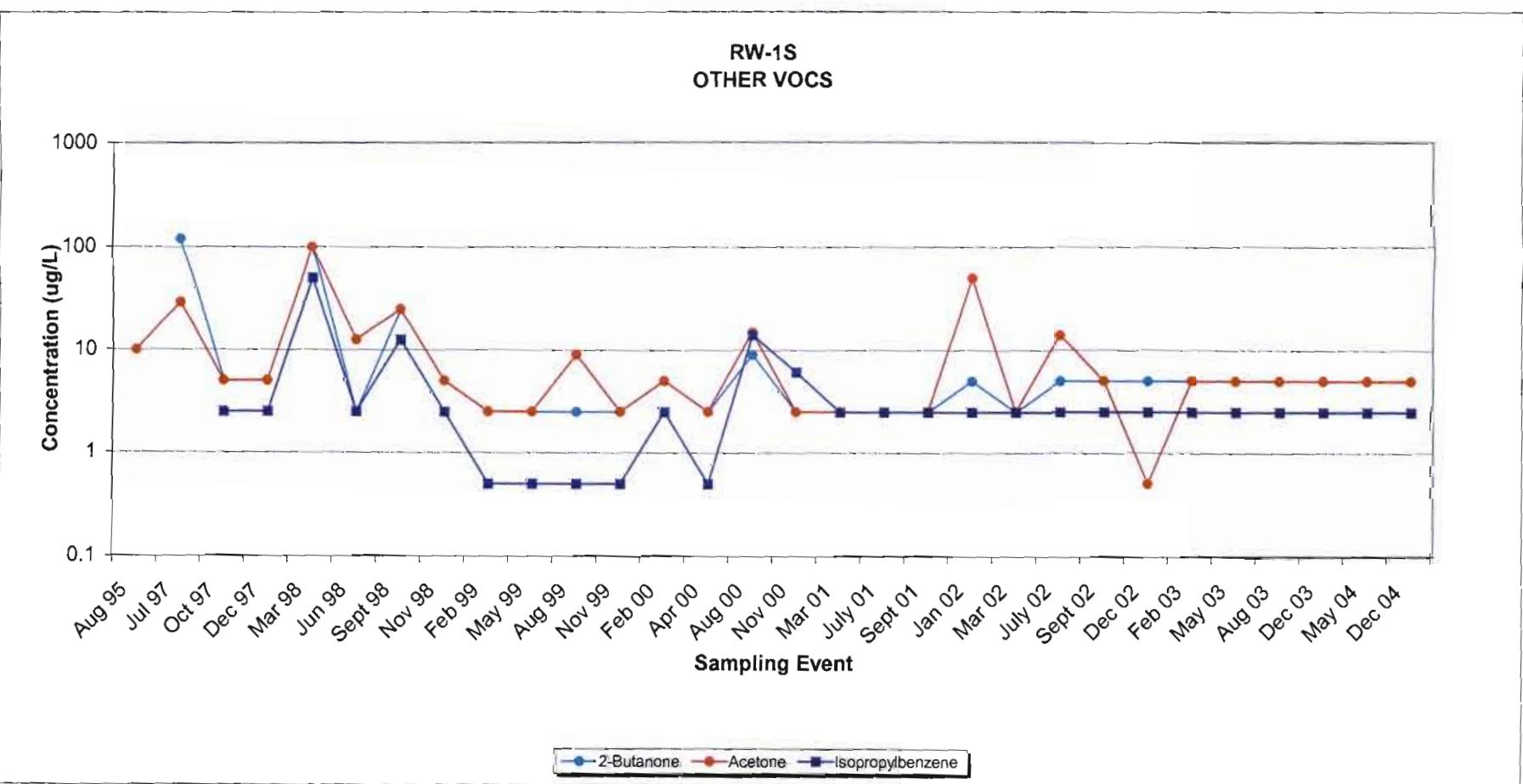
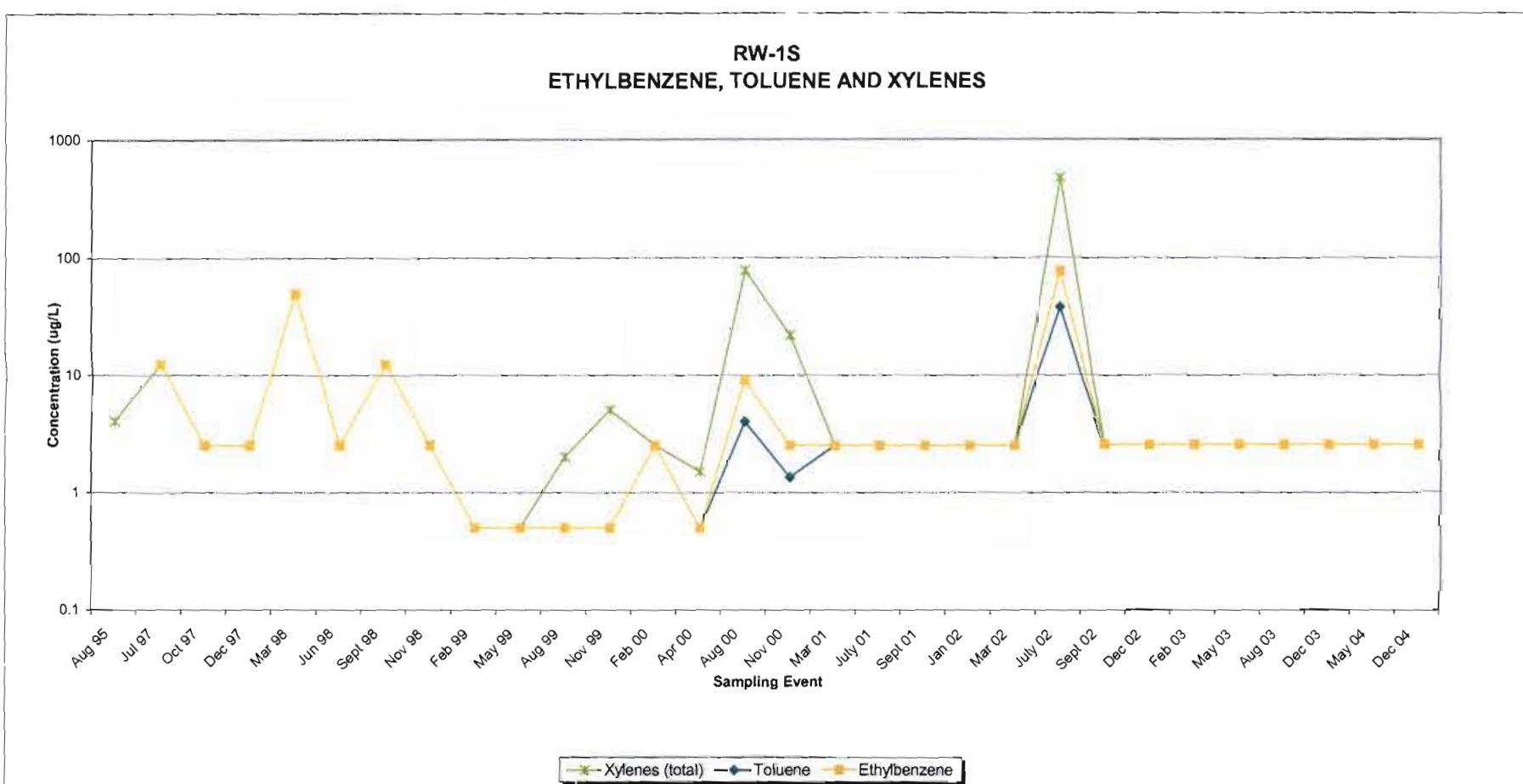
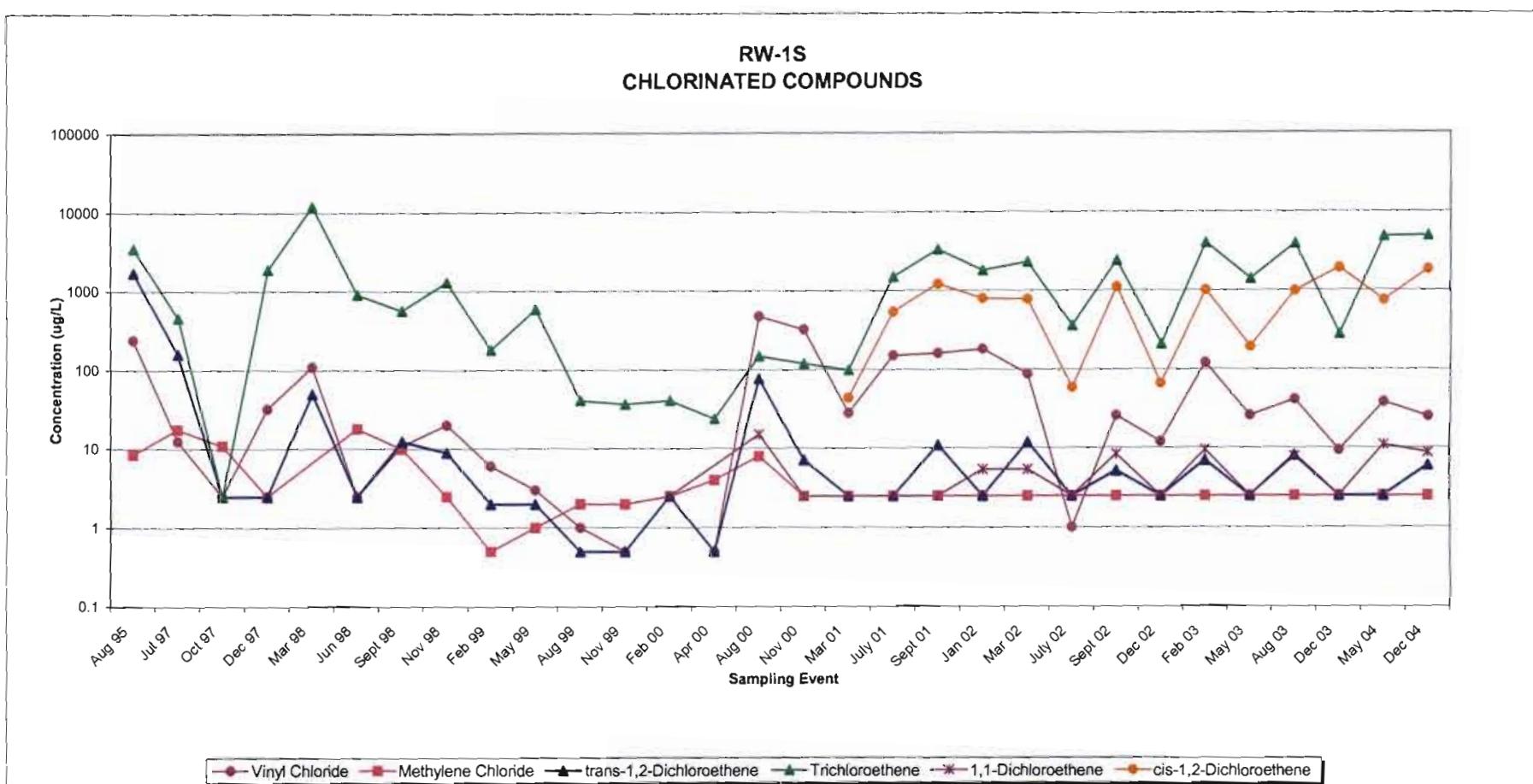
RW-1D VOLATILE ORGANIC COMPOUNDS



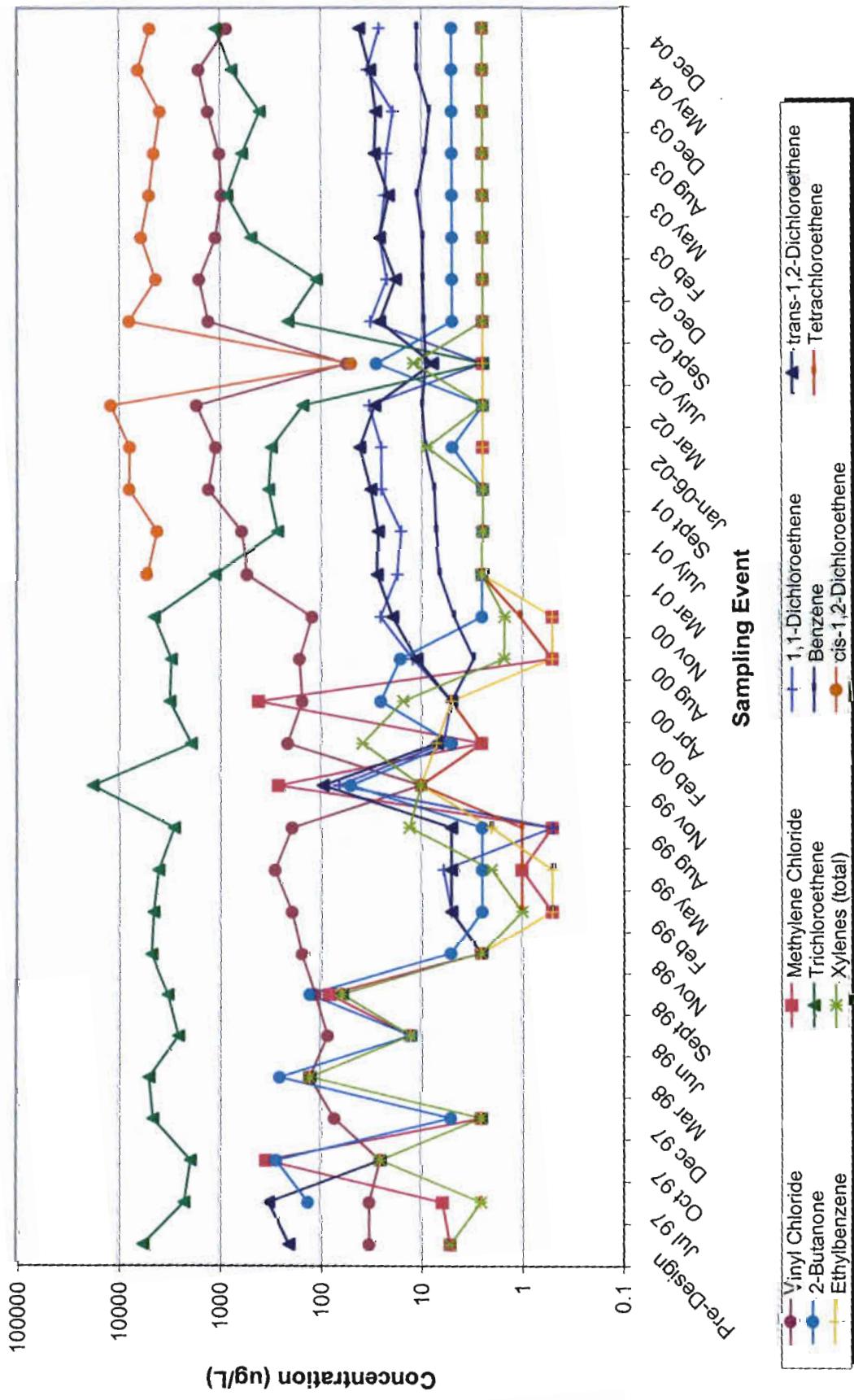


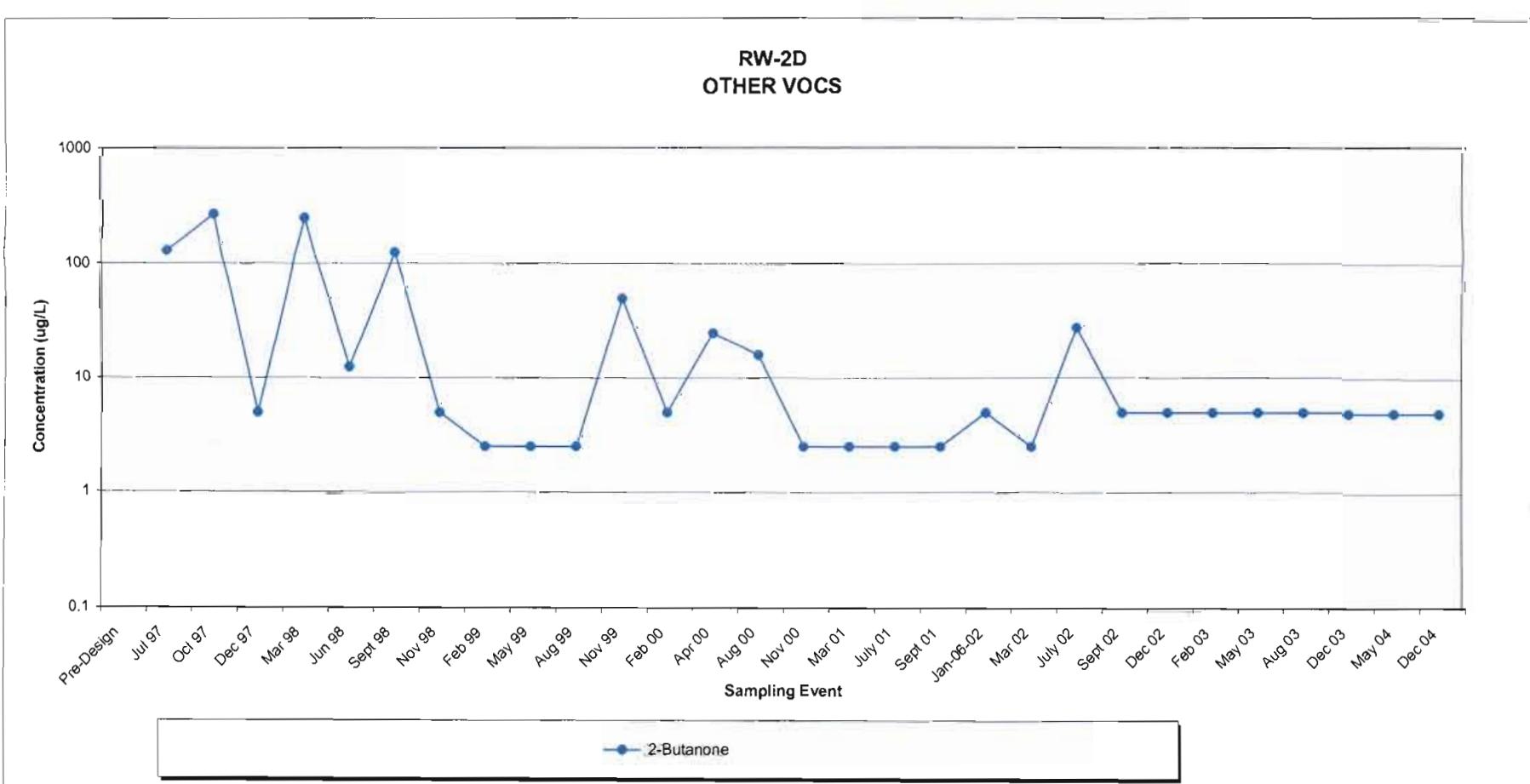
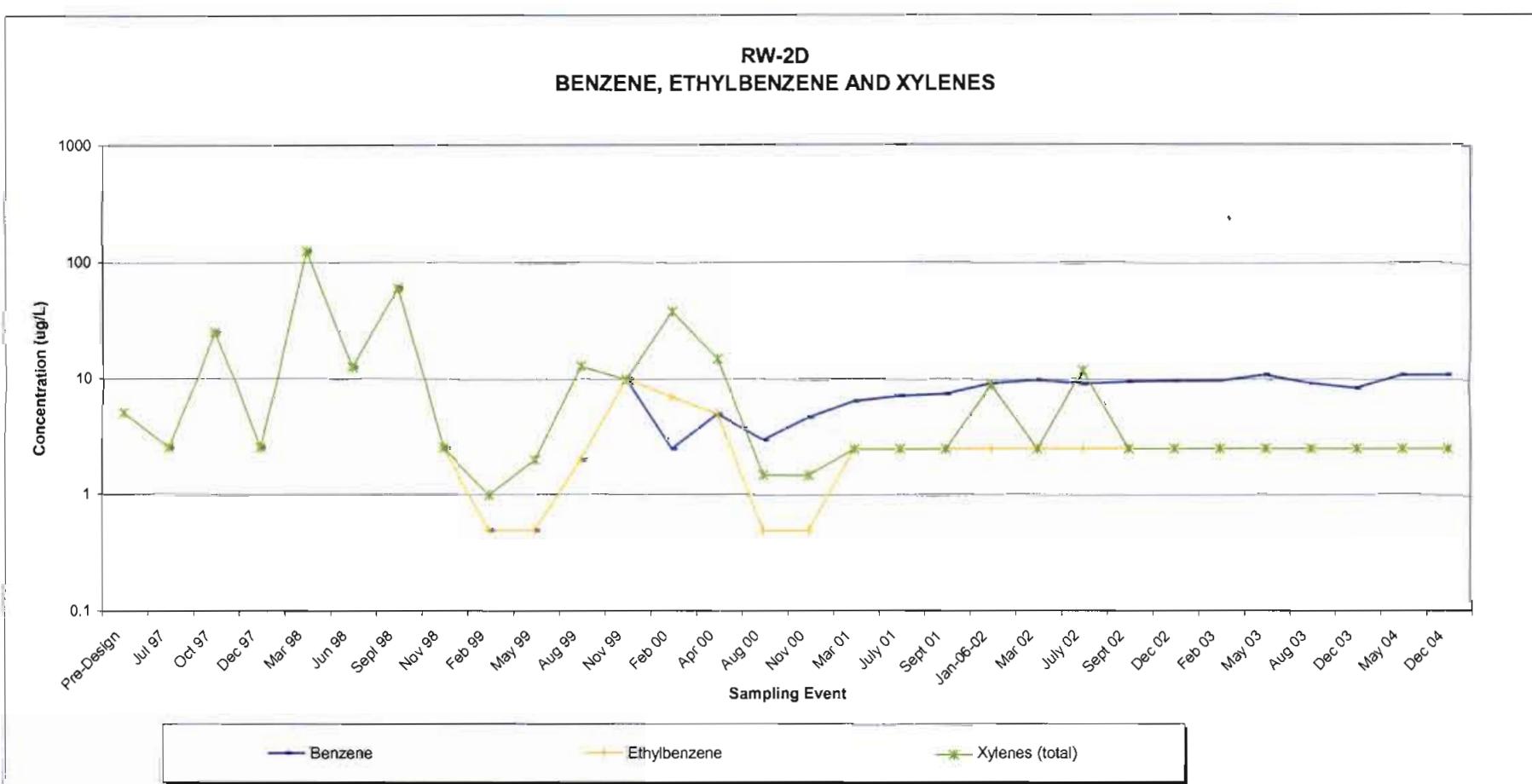
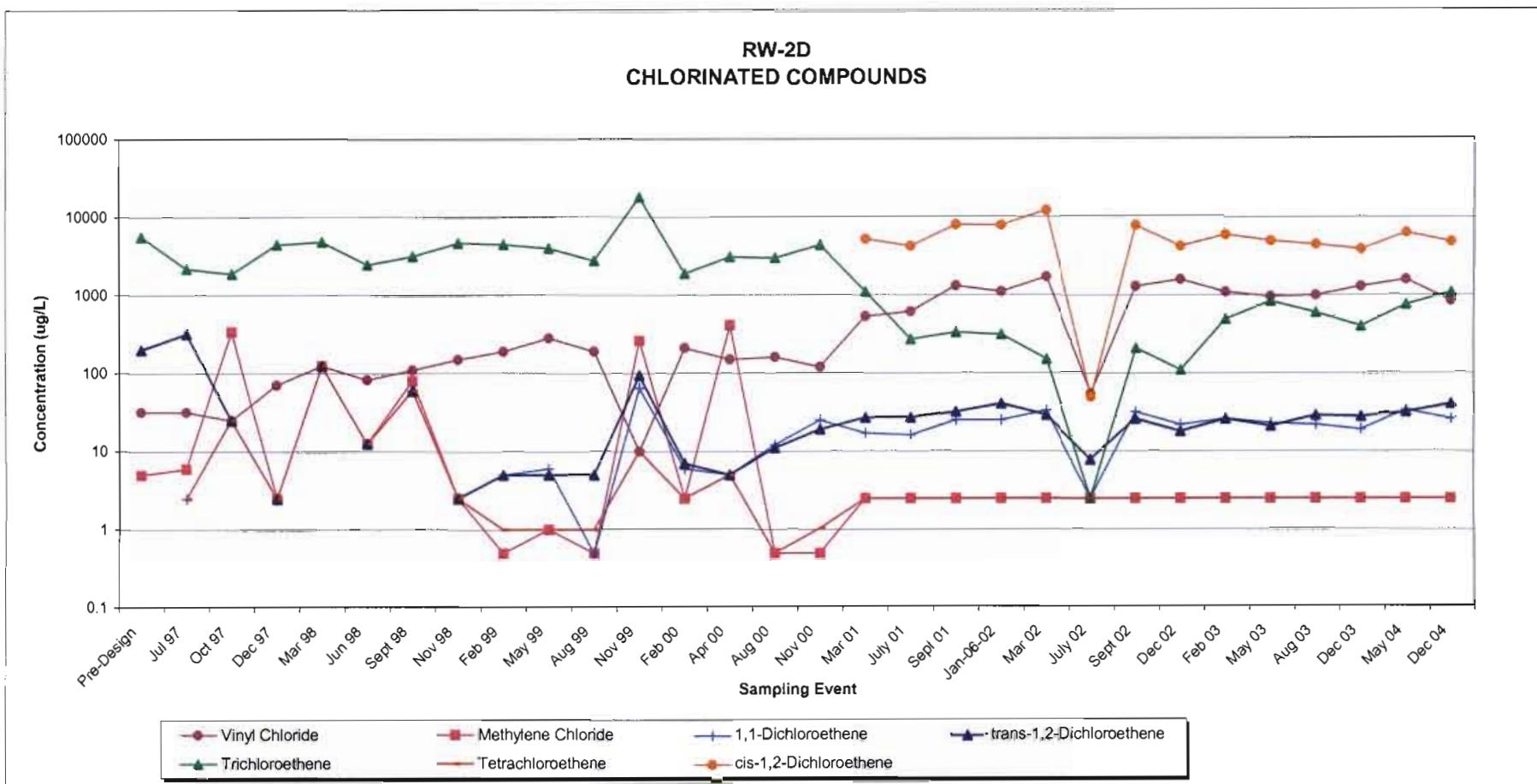
RW-1S VOLATILE ORGANIC COMPOUNDS



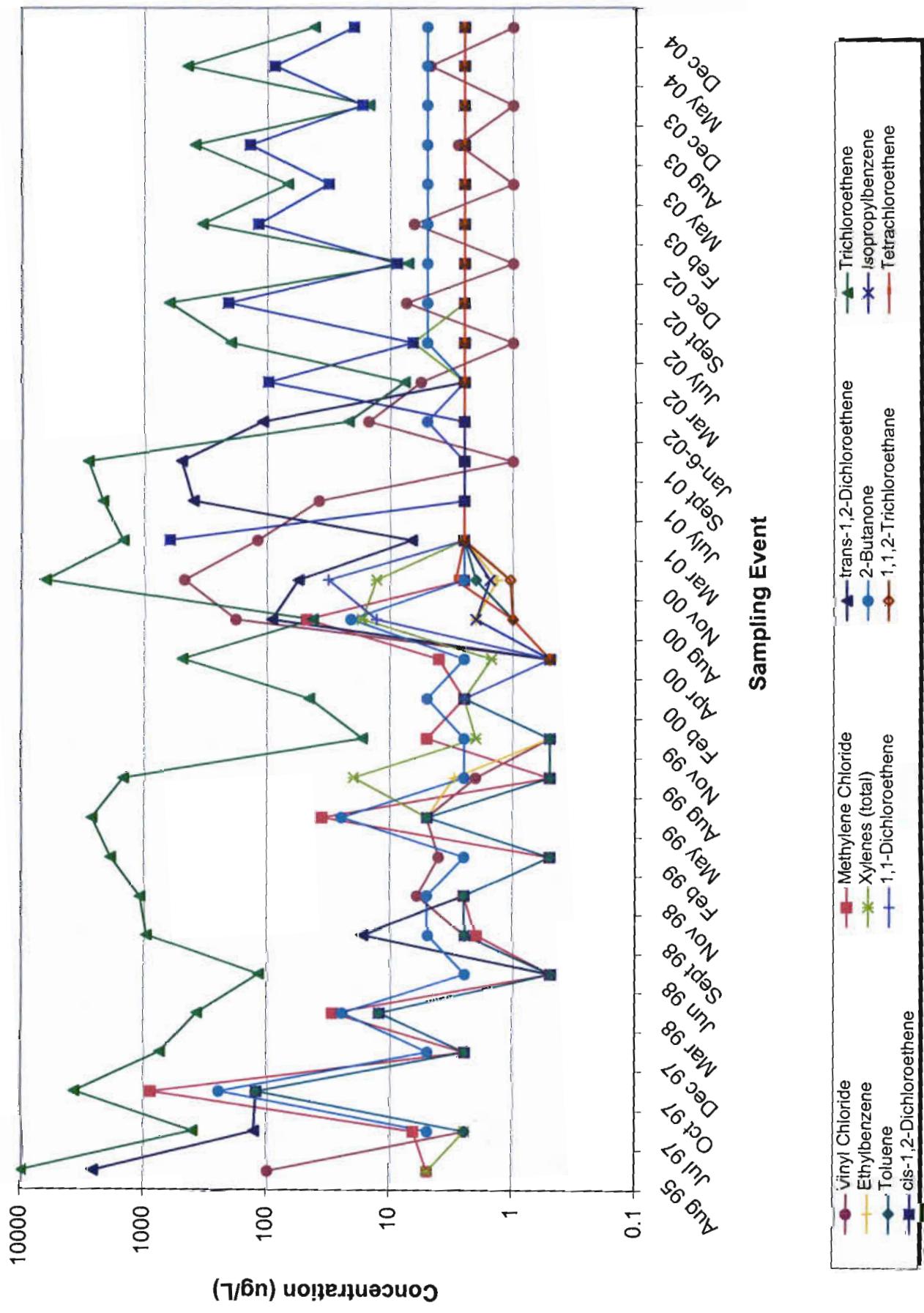


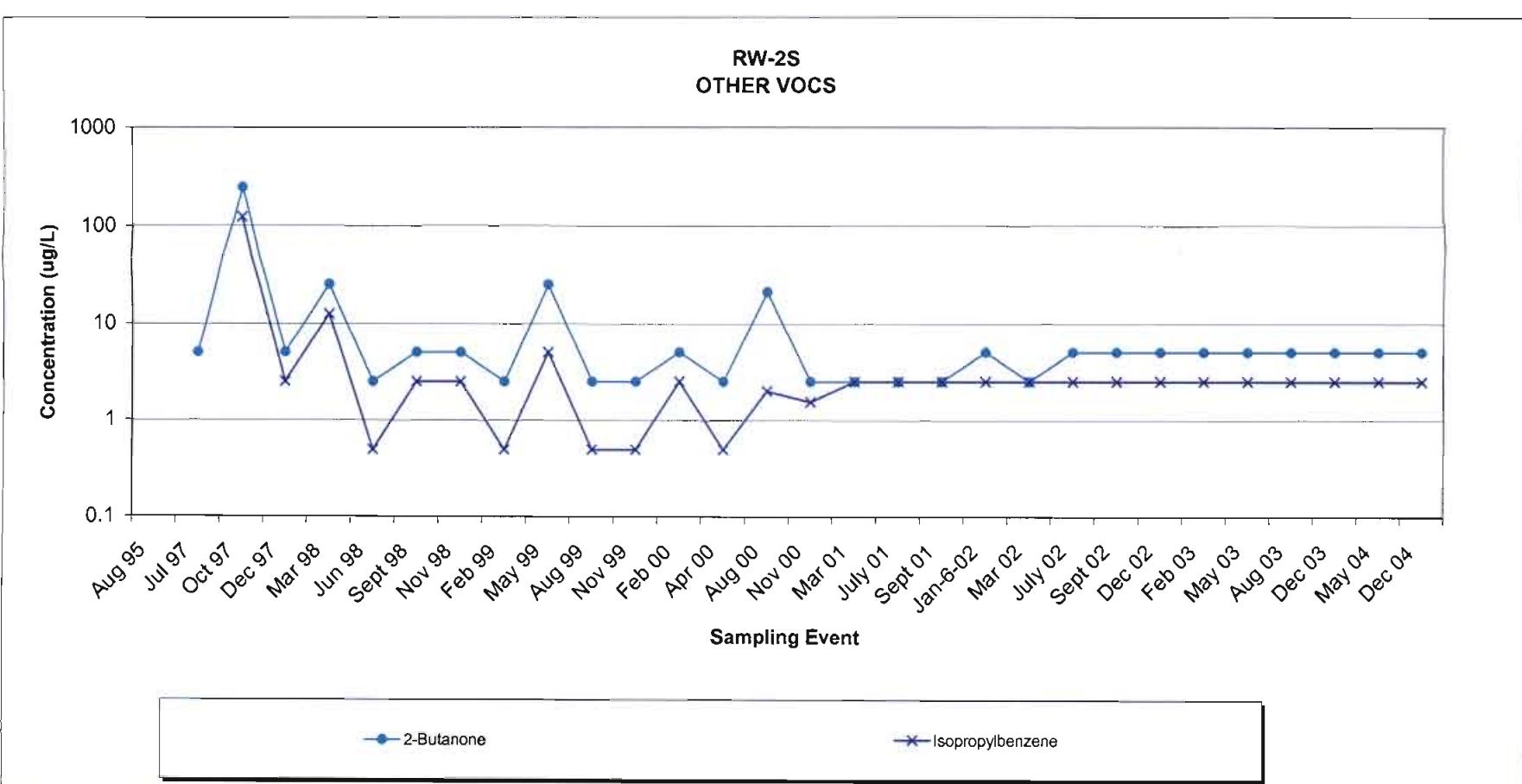
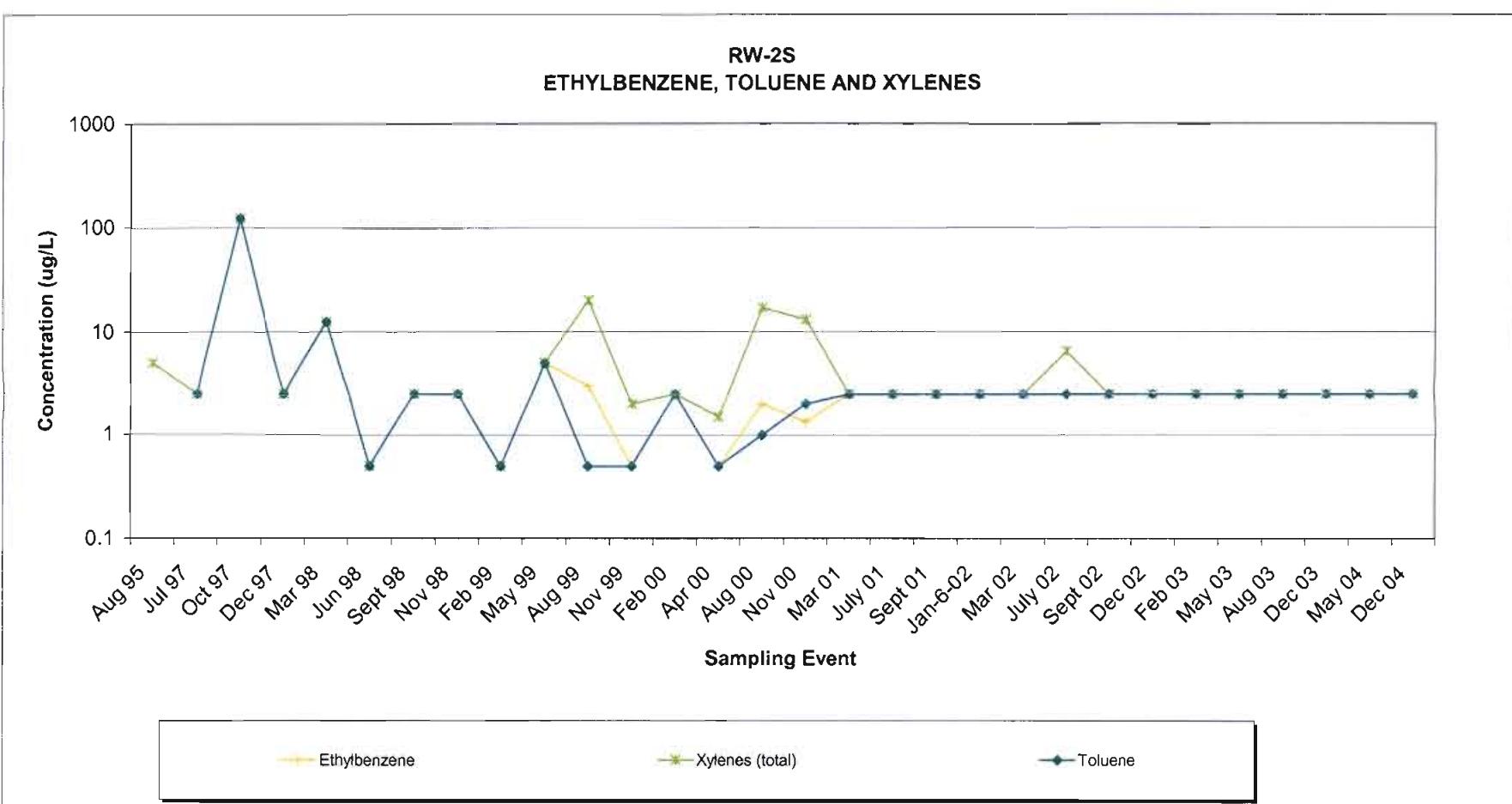
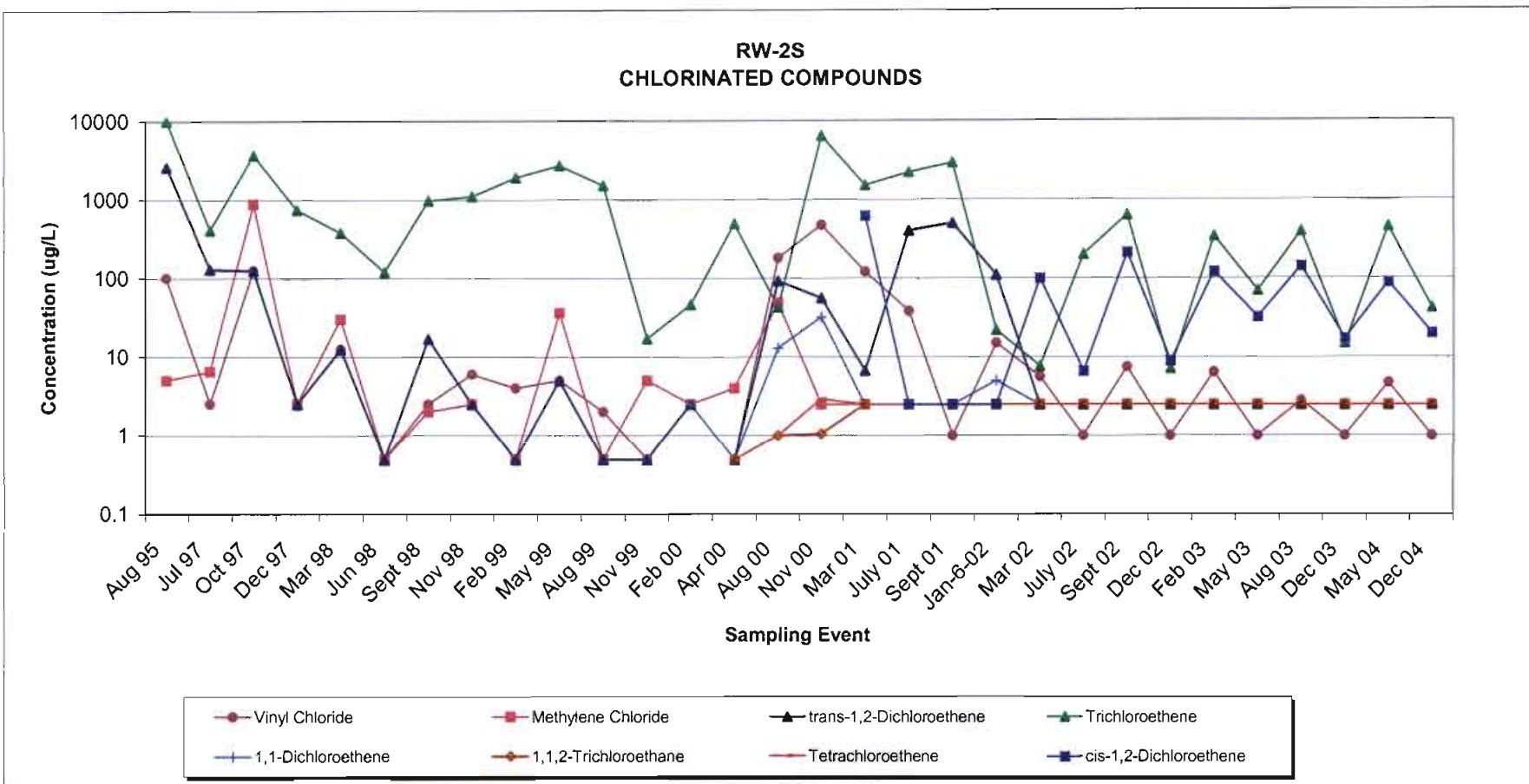
RW-2D VOLATILE ORGANIC COMPOUNDS



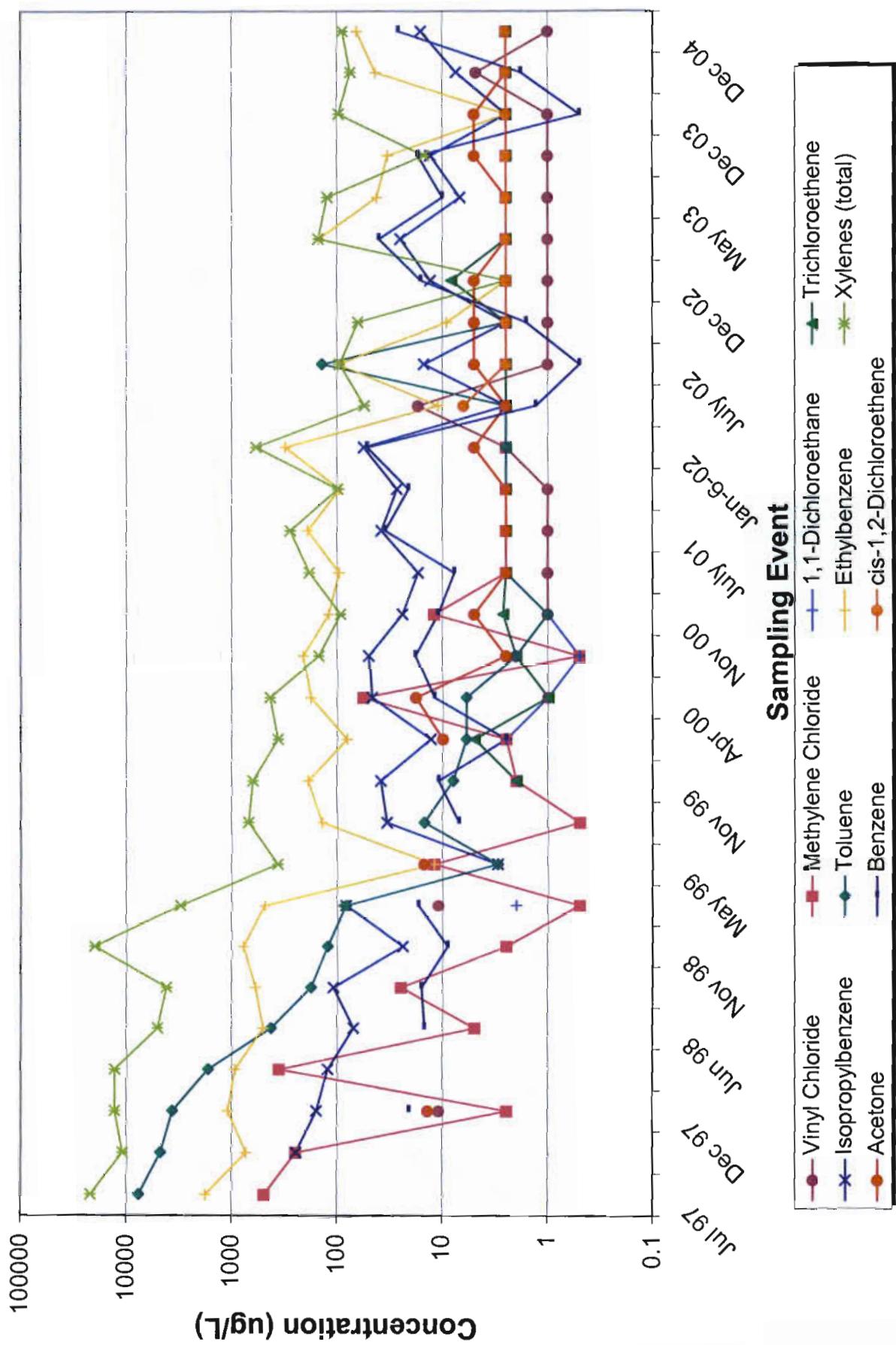


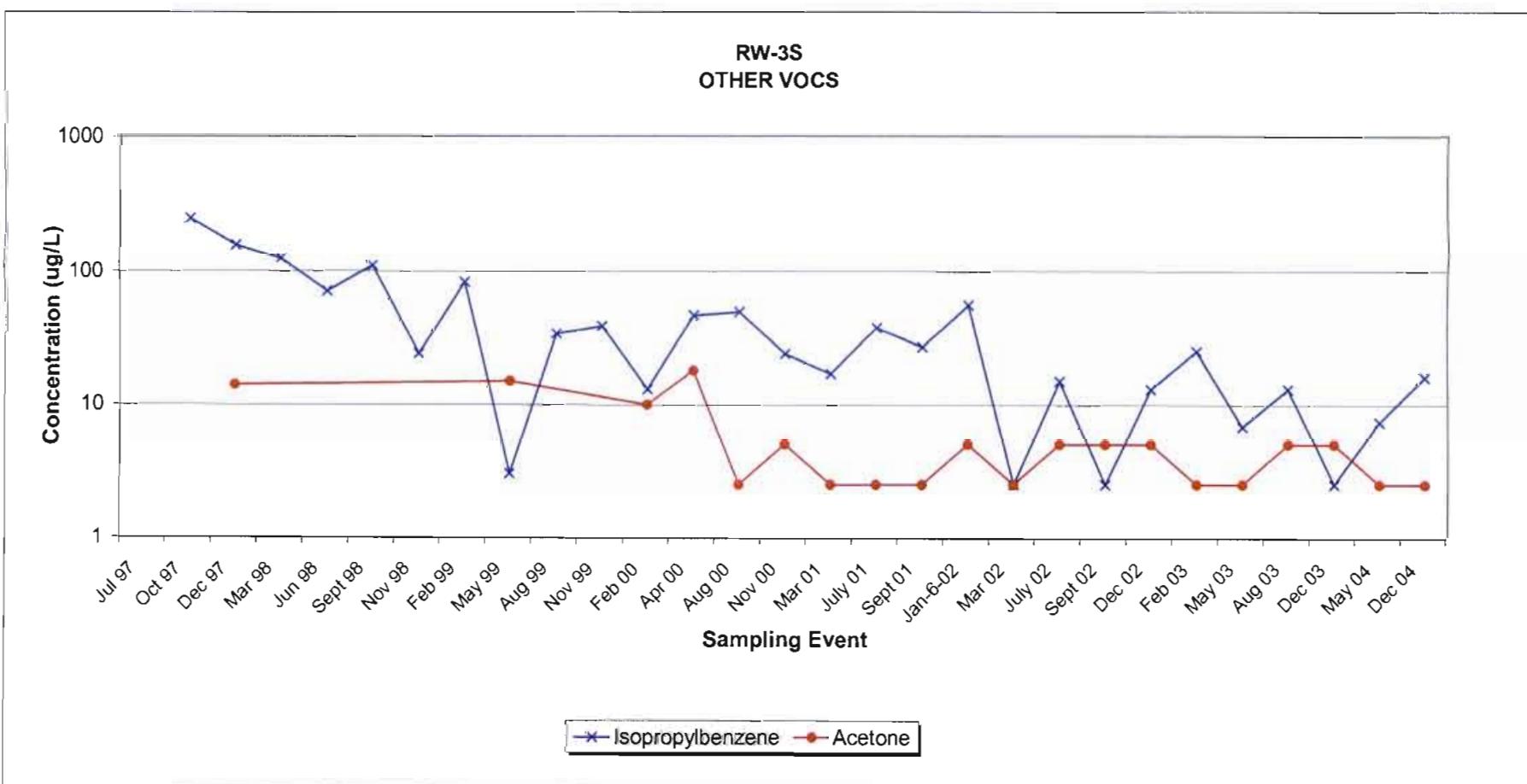
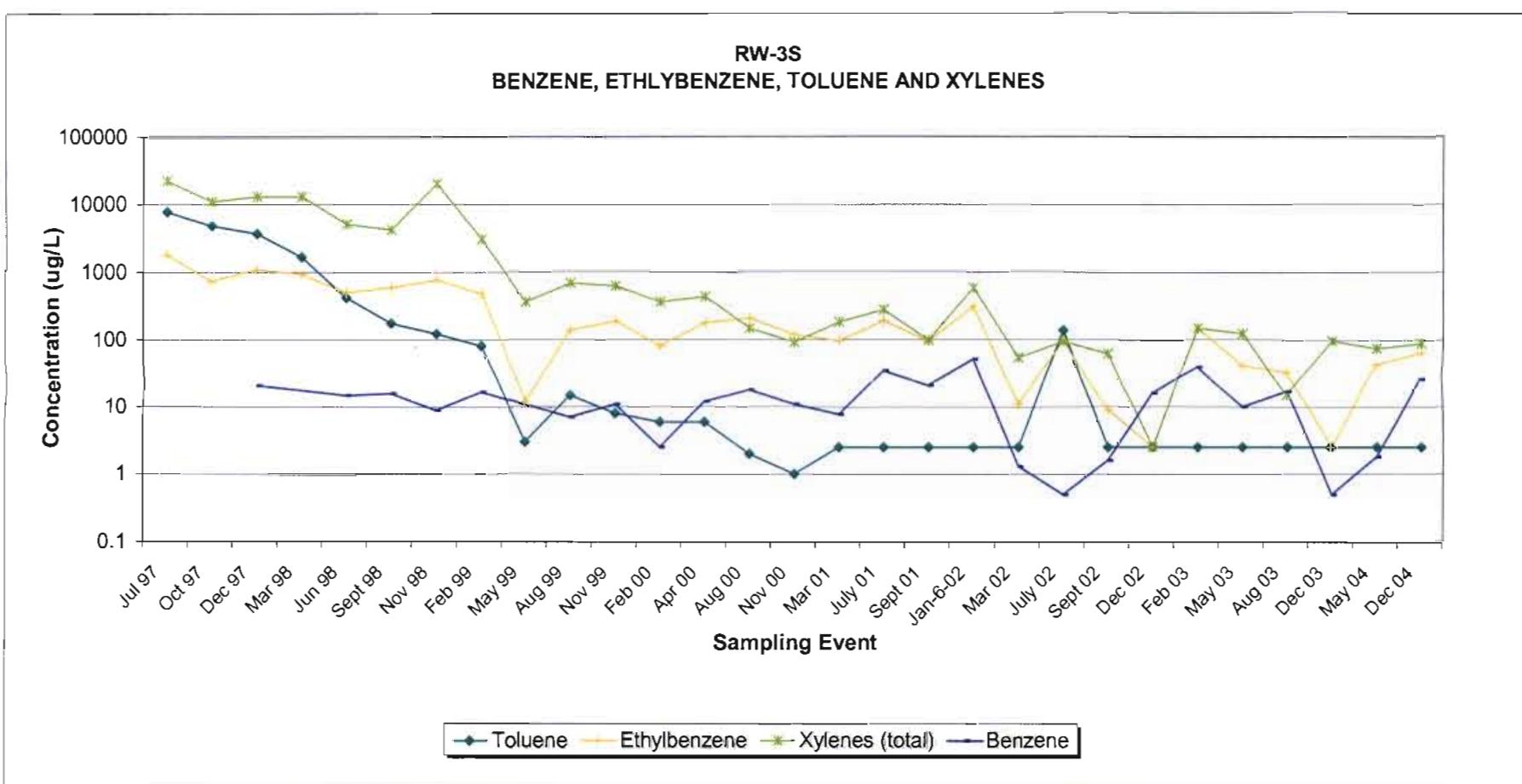
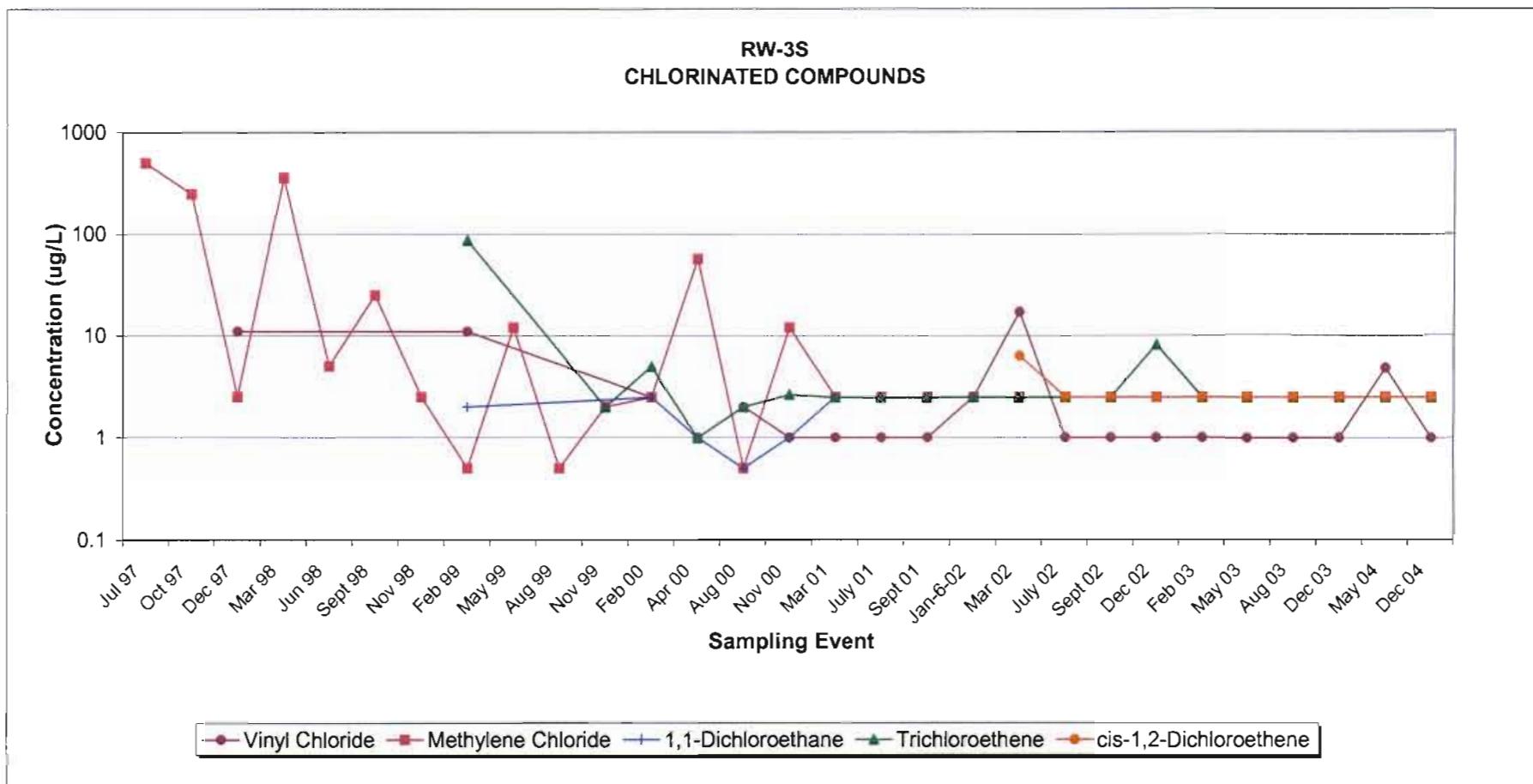
RW-2S VOLATILE ORGANIC COMPOUNDS





RW-3S VOLATILE ORGANIC COMPOUNDS





APPENDIX C**LABORATORY ANALYTICAL DATA**



APPENDIX C-1

2004 SEMI-ANNUAL RECOVERY WELL DATA

COPY
 SEE PORN
 ANALYSIS FOR
 ORIGINAL

June 15, 2004

Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on June 1, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-2515 when inquiring about this report.

Client Site: Essex-Hope
 Client Ref.: 41567320

Pace Sample Identification	Client Sample Identification
0406-0438	Pre-Carb
0406-0439	Primary Effluent
0406-0440	Post-Carb
0406-0441	RW-1S
0406-0442	RW-1D

Pace Sample Identification	Client Sample Identification
0406-0443	RW-2S
0406-0444	RW-2D
0406-0445	RW-3S
0406-0446	Trip Blank

General Comments: Cooler temperature 6 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
 Project Manager

REC: jld

Enclosures

Page 1 of 30

REPORT OF LABORATORY ANALYSIS

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 Construction Services Division
 Twin Towers, Suite 250
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 Pittsburgh, PA 15205

Client Site: Essex-Hope
 Client Ref.: 41567320

Pace Analytical Services, Inc.
 5203 Triangle Lane
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 Phone: 724.733.1161
 Fax: 724.327.7793

Lab Project ID: 04-2515
 Lab Sample ID: 0406-0441
 Client Sample ID: RW-1S
 Sample Matrix: Aqueous
 Date Sampled: 05/27/2004
 Date Received: 06/01/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethylene	8260B ⁽¹⁾	11	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethylene	8260B ⁽¹⁾	740	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0406-0441
 Client Sample ID: RW-1S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	4800	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	38	2.0	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 04-2515
 Lab Sample ID: 0406-0442
 Client Sample ID: RW-1D
 Sample Matrix: Aqueous

Date Sampled: 05/27/2004
 Date Received: 06/01/2004

Client Site: Essex-Hope
 Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	11	10	ug/l	MAK	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	1.5	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	8.3	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	370	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	8.1	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

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REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0406-0442**
 Client Sample ID: **RW-1D**

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	8.5	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	14	2.0	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Client Site: Essex-Hope
 Client Ref.: 41567320

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Lab Project ID: 04-2515
 Lab Sample ID: 0406-0443
 Client Sample ID: RW-2S
 Sample Matnx: Aqueous
 Date Sampled: 05/27/2004
 Date Received: 06/01/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	88	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0406-0443**
 Client Sample ID: **RW-2S**

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	450	10	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	4.7	2.0	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 04-2515
 Lab Sample ID: 0406-0444
 Client Sample ID: RW-2D
 Sample Matrix: Aqueous

Date Sampled: 05/27/2004
 Date Received: 06/01/2004

Client Site: Essex-Hope
 Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	11	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	34	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6400	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	32	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0406-0444**
 Client Sample ID: **RW-2D**

Volatile (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	760	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1600	100	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. One surrogate was biased low in the neat analysis of this sample. Surrogate recoveries were acceptable in dilution, therefore matrix interference is suspected.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-2515
 Lab Sample ID: 0406-0445
 Client Sample ID: RW-3S
 Sample Matrix: Aqueous
 Date Sampled: 05/27/2004
 Date Received: 06/01/2004

Client Site: Essex-Hope
 Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	1.8	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butancne	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	7.4	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	43	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0406-0445**
 Client Sample ID: **RW-3S**

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	4.8	2.0	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	59	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	16	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996. Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Fax: 724.327.7793

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Client Site: Essex-Hope
Client Ref.: 41567320

Lab Project ID: 04-2515
Lab Sample ID: 0406-0446
Client Sample ID: Trip Blank
Sample Matrix: Aqueous
Date Sampled: 05/27/2004
Date Received: 06/01/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

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 5203 Triangle Lane
 Export, PA 15632
 Phone: 724.733.1161
 Fax: 724.327.7793

Lab Sample ID: **0406-0446**
 Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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January 5, 2005

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on December 22, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-6360 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320.03

Pace Sample Identification	Client Sample Identification
0412-2784	RW-1S
0412-2785	RW-1D
0412-2786	RW-2S

Pace Sample Identification	Client Sample Identification
0412-2787	RW-2D
0412-2788	RW-3S
0412-2789	Trip Blank

General Comments: Cooler temperature 3 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 14

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Client Site: Essex-Hope
 Client Ref.: 41567320.03

Pace Analytical Services, Inc.
 5203 Triangle Lane
 Export, PA 15632
 Phone: 724.733.1161
 Fax: 724.327.7793

Lab Project ID: 04-6360
 Lab Sample ID: 0412-2784
 Client Sample ID: RW-1S
 Sample Matrix: Aqueous
 Date Sampled: 12/21/2004
 Date Received: 12/22/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/03/2005	0036149-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	8.7	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1800	50	ug/l	MAK	01/03/2005	0036149-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	6.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

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Lab Sample ID: 0412-2784
Client Sample ID: RW-1S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Trichloroethene	8260B ⁽¹⁾	4900	50	ug/l	MAK	01/03/2005	0036149-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	25	2.0	ug/l	MAK	01/03/2005	0036149-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 04-6360
Lab Sample ID: 0412-2785
Client Sample ID: RW-1D
Sample Matrix: Aqueous

Date Sampled: 12/21/2004
Date Received: 12/22/2004

Client Site: Essex-Hope
Client Ref.: 41567320.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Benzene	8260B ⁽¹⁾	5.3	1.0	ug/l	MAK	01/03/2005	0036129-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	7.1	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	580	50	ug/l	MAK	01/03/2005	0036129-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	18	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0

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Lab Sample ID: 0412-2785

Client Sample ID: RW-1D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Trichloroethene	8260B ⁽¹⁾	32	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	75	2.0	ug/l	MAK	01/03/2005	0036129-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 04-6360
 Lab Sample ID: 0412-2786
 Client Sample ID: RW-2S
 Sample Matrix: Aqueous
 Date Sampled: 12/21/2004
 Date Received: 12/22/2004

Client Site: Essex-Hope
 Client Ref.: 41567320.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/03/2005	0036149-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	20	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

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Lab Sample ID: 0412-2786
Client Sample ID: RW-2S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Trichloroethene	8260B ⁽¹⁾	42	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	01/03/2005	0036149-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 04-6360
Lab Sample ID: 0412-2787
Client Sample ID: RW-2D
Sample Matrix: Aqueous
Date Sampled: 12/21/2004
Date Received: 12/22/2004

Client Site: Essex-Hope
 Client Ref.: 41567320.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Benzene	8260B ⁽¹⁾	11	1.0	ug/l	MAK	01/03/2005	0036129-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	26	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	4900	100	ug/l	MAK	01/03/2005	0036129-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	41	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0

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Lab Sample ID: 0412-2787
 Client Sample ID: RW-2D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Trichloroethene	8260B ⁽¹⁾	1100	100	ug/l	MAK	01/03/2005	0036129-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	850	200	ug/l	MAK	01/03/2005	0036129-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 04-6360
 Lab Sample ID: 0412-2788
 Client Sample ID: RW-3S
 Sample Matrix: Aqueous
 Date Sampled: 12/21/2004
 Date Received: 12/22/2004

Client Site: Essex-Hope
 Client Ref.: 41567320.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Benzene	8260B ⁽¹⁾	26	1.0	ug/l	MAK	01/03/2005	0036149-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Cumene	8260B ⁽¹⁾	16	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	65	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0412-2788
 Client Sample ID: RW-3S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	01/03/2005	0036149-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	67	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
o-Xylene	8260B ⁽¹⁾	22	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency. 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Client Site: Essex-Hope
 Client Ref.: 41567320.03

Pace Analytical Services, Inc.

5203 Triangle Lane

Export, PA 15632

Phone: 724.733.1161

Fax: 724.327.7793

Lab Project ID: 04-6360
Lab Sample ID: 0412-2789
Client Sample ID: Trip Blank
Sample Matrix: Aqueous
Date Sampled: 12/21/2004
Date Received: 12/22/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/03/2005	0036149-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0412-2789**
 Client Sample ID: Trip Blank

Volatiles (Cont.)

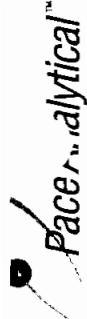
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Tetrachloroethylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Trichloroethylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	01/03/2005	0036149-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY / Analytical Request Document

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C																																																																																																																																																																												
Required Client Information:		Report To:		Page: 1 of 1																																																																																																																																																																												
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<p>SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE</p> <table border="1"> <thead> <tr> <th rowspan="2">ITEM #</th> <th colspan="2">Required Client Information:</th> <th rowspan="2">Valid Matrix Codes CODE</th> <th rowspan="2">DATE COLLECTED</th> <th rowspan="2">TIME COLLECTED</th> <th colspan="7">Preservatives</th> </tr> <tr> <th>MATRIX</th> <th>WT</th> <th>SL</th> <th>OL</th> <th>WP</th> <th>AR</th> <th>TS</th> <th>OT</th> <th>Other</th> <th>NaOH</th> <th>Na₂S₂O₃</th> <th>HCl</th> <th>HNO₃</th> <th>H₂SO₄</th> <th>Cupriferized</th> <th># Containers</th> <th>mm / dd / yy</th> <th>hh:mm aa</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>WATER</td> <td></td> </tr> <tr> <td>2</td> <td>SOIL</td> <td></td> </tr> <tr> <td>3</td> <td>OIL</td> <td></td> </tr> <tr> <td>4</td> <td>WIPE</td> <td></td> </tr> <tr> <td>5</td> <td>AIR</td> <td></td> </tr> <tr> <td>6</td> <td>TISSUE</td> <td></td> </tr> <tr> <td>7</td> <td>OTHER</td> <td></td> </tr> </tbody> </table>						ITEM #	Required Client Information:		Valid Matrix Codes CODE	DATE COLLECTED	TIME COLLECTED	Preservatives							MATRIX	WT	SL	OL	WP	AR	TS	OT	Other	NaOH	Na ₂ S ₂ O ₃	HCl	HNO ₃	H ₂ SO ₄	Cupriferized	# Containers	mm / dd / yy	hh:mm aa	1	WATER																			2	SOIL																			3	OIL																			4	WIPE																			5	AIR																			6	TISSUE																			7	OTHER																		
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<p>SHIPMENT METHOD</p> <table border="1"> <thead> <tr> <th colspan="2">SAMPLE CONDITION</th> <th colspan="2">SAMPLE NOTES</th> <th>ITEM NUMBER</th> <th>RELINQUISHED BY / AFFILIATION</th> <th>DATE</th> <th>TIME</th> <th>ACCEPTED BY / AFFILIATION</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>Temp in °C</td> <td></td> <td>AIRBILL NO.</td> <td>SHIPPING DATE</td> <td>NO. OF COOLERS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Received on Ice</td> <td>Y/N</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sealed Cooler</td> <td>Y/N</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Samples Intact</td> <td>Y/N</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="11">Additional Comments:</td> </tr> </tbody> </table>						SAMPLE CONDITION		SAMPLE NOTES		ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C		AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS							Received on Ice	Y/N										Sealed Cooler	Y/N										Samples Intact	Y/N										Additional Comments:																																																																																																																			
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APPENDIX C-2

2004 ANNUAL PMP MONITORING WELL DATA

January 5, 2005

Mr. Doug Gray
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Dear Mr. Gray:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on December 20, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-6297 when inquiring about this report.

Client Site: Essex-Hope
 Client Ref.: 41785824.03

Pace Sample Identification	Client Sample Identification
0412-2442	MW-2
0412-2443	MW-6
0412-2444	MW-14D
0412-2445	MW-15S
0412-2446	MW-7S

Pace Sample Identification	Client Sample Identification
0412-2447	MW-8
0412-2448	MW-19D
0412-2449	MW-20
0412-2450	MW-14S
0412-2451	TRIP BLANK

General Comments: Cooler temperature 2 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
 Project Manager

REC: jld

Enclosures

Page 1 of 22

REPORT OF LABORATORY ANALYSIS

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Mr. Doug Gray
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Client Site: Essex-Hope
 Client Ref.: 41785824.03

Pace Analytical Services, Inc.
 5203 Triangle Lane
 Export, PA 15632
 Phone: 724.733.1161
 Fax: 724.327.7793

Lab Project ID: 04-6297
 Lab Sample ID: 0412-2442
 Client Sample ID: MW-2
 Sample Matrix: Aqueous
 Date Sampled: 12/16/2004
 Date Received: 12/20/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Benzene	8260B ⁽¹⁾	1.4	1.0	ug/l	MAK	12/23/2004	0036003-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Cumene	8260B ⁽¹⁾	7.5	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0

(Continued)

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Lab Sample ID: **0412-2442**
 Client Sample ID: **MW-2**

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	12/23/2004	0036003-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Client Ref.: 41785824.03

Pace Analytical Services, Inc.

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Phone: 724.733.1161

Fax: 724.327.7793

Lab Project ID: 04-6297
Lab Sample ID: 0412-2443
Client Sample ID: MW-6
Sample Matrix: Aqueous

Date Sampled: 12/16/2004
Date Received: 12/20/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/23/2004	0036014-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0

(Continued)

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Lab Sample ID: 0412-2443
Client Sample ID: MW-6

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	12/23/2004	0036014-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 04-6297
 Lab Sample ID: 0412-2444
 Client Sample ID: MW-14D
 Sample Matrix: Aqueous
 Date Sampled: 12/16/2004
 Date Received: 12/20/2004

Client Site: Essex-Hope
 Client Ref.: 41785824.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/23/2004	0036003-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0

(Continued)

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Lab Sample ID: 0412-2444
 Client Sample ID: MW-14D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	12/23/2004	0036003-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 04-6297
Lab Sample ID: 0412-2445
Client Sample ID: MW-15S
Sample Matrix: Aqueous
Date Sampled: 12/16/2004
Date Received: 12/20/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/23/2004	0036014-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0

(Continued)

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Lab Sample ID: **0412-2445**
 Client Sample ID: **MW-15S**

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Trichloroethene	8260B ⁽¹⁾	6.9	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	12/23/2004	0036014-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 04-6297
Lab Sample ID: 0412-2446
Client Sample ID: MW-7S
Sample Matrix: Aqueous
Date Sampled: 12/16/2004
Date Received: 12/20/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	16	10	ug/l	MAK	12/23/2004	0036003-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/23/2004	0036003-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0

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Lab Sample ID: **0412-2446**
 Client Sample ID: **MW-7S**

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Trichloroethene	8260B ⁽¹⁾	7.2	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	12/23/2004	0036003-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Doug Gray

URS Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Lab Project ID: 04-6297

Lab Sample ID: 0412-2447

Client Sample ID: MW-8

Sample Matrix: Aqueous

Date Sampled: 12/16/2004

Date Received: 12/20/2004

Client Site: Essex-Hope

Client Ref.: 41785824.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	470	50	ug/l	MAK	12/28/2004	0036048-1	<10
Benzene	8260B ⁽¹⁾	2.4	1.0	ug/l	MAK	12/23/2004	0036014-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	96	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	7.4	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0

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Lab Sample ID: **0412-2447**
 Client Sample ID: **MW-8**

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Trichloroethene	8260B ⁽¹⁾	170	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	15	2.0	ug/l	MAK	12/23/2004	0036014-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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 Construction Services Division
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 501 Holiday Drive, Suite 300
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Client Site: Essex-Hope
 Client Ref.: 41785824.03

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Lab Project ID: 04-6297
 Lab Sample ID: 0412-2448
 Client Sample ID: MW-19D
 Sample Matrix: Aqueous
 Date Sampled: 12/17/2004
 Date Received: 12/20/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/23/2004	0036003-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0

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Lab Sample ID: 0412-2448
 Client Sample ID: MW-19D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	760	20	ug/l	MAK	12/28/2004	0036040-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 04-6297
Lab Sample ID: 0412-2449
Client Sample ID: MW-20
Sample Matrix: Aqueous
Date Sampled: 12/17/2004
Date Received: 12/20/2004

Client Site: Essex-Hope
 Client Ref.: 41785824.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
Benzene	8260B ⁽¹⁾	2.1	1.0	ug/l	MAK	12/23/2004	0036014-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Cumene	8260B ⁽¹⁾	400	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	3000	50	ug/l	MAK	12/28/2004	0036040-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036014-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0412-2449**
 Client Sample ID: **MW-20**

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Toluene	8260B ⁽¹⁾	1900	50	ug/l	MAK	12/28/2004	0036040-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036014-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	12/23/2004	0036014-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	20000	100	ug/l	MAK	12/28/2004	0036040-1	<5.0
o-Xylene	8260B ⁽¹⁾	2000	50	ug/l	MAK	12/28/2004	0036040-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Doug Gray
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 04-6297
 Lab Sample ID: 0412-2450
 Client Sample ID: MW-14S
 Sample Matrix: Aqueous
 Date Sampled: 12/17/2004
 Date Received: 12/20/2004

Client Site: Essex-Hope
 Client Ref.: 41785824.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Benzene	8260B ⁽¹⁾	1.8	1.0	ug/l	MAK	12/23/2004	0036003-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	28	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2100	10	ug/l	MAK	12/28/2004	0036048-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	18	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/23/2004	0036003-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0412-2450
 Client Sample ID: MW-14S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Tetrachloroethylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Trichloroethylene	8260B ⁽¹⁾	2700	10	ug/l	MAK	12/28/2004	0036048-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	190	2.0	ug/l	MAK	12/23/2004	0036003-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	22	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/23/2004	0036003-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Reported in accordance
 with APHA-AWWA-WEF
 Standard Methods

Mr. Doug Gray
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: **04-6297**
 Lab Sample ID: **0412-2451**
 Client Sample ID: **TRIP BLANK**
 Sample Matrix: **Aqueous**
 Date Sampled: **12/16/2004**
 Date Received: **12/20/2004**

Client Site: Essex-Hope
 Client Ref.: 41785824.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/28/2004	0036040-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/28/2004	0036040-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/28/2004	0036040-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/28/2004	0036040-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/28/2004	0036040-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0

(Continued)

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Lab Sample ID: 0412-2451
 Client Sample ID: TRIP BLANK

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	12/28/2004	0036040-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/28/2004	0036040-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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January 5, 2005

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on December 22, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-6370 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320.03

Pace Sample Identification	Client Sample Identification
0412-2825	MW-7D
0412-2826	MW-15D
0412-2827	MW-22D
0412-2828	MW-21D

Pace Sample Identification	Client Sample Identification
0412-2829	TB-02
0412-2830	DUP-01
0412-2831	EQUIP BLK

General Comments: Cooler temperature 3 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

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REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 04-6370
Lab Sample ID: 0412-2825
Client Sample ID: MW-7D
Sample Matrix: Aqueous
Date Sampled: 12/21/2004
Date Received: 12/22/2004

Client Site: Essex-Hope
 Client Ref.: 41567320.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Benzene	8260B ⁽¹⁾	9.0	1.0	ug/l	MAK	01/03/2005	0036129-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6900	50	ug/l	MAK	01/04/2005	0036168-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	31	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0412-2825**
 Client Sample ID: **MW-7D**

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Tetrachloroethylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Trichloroethylene	8260B ⁽¹⁾	25	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1100	100	ug/l	MAK	01/04/2005	0036168-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Client Site: Essex-Hope
 Client Ref.: 41567320.03

Lab Project ID: 04-6370
 Lab Sample ID: 0412-2826
 Client Sample ID: MW-15D
 Sample Matrix: Aqueous
 Date Sampled: 12/21/2004
 Date Received: 12/22/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Benzene	8260B ⁽¹⁾	1.7	1.0	ug/l	MAK	01/03/2005	0036149-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	59	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	11000	100	ug/l	MAK	01/04/2005	0036168-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	91	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0412-2826
 Client Sample ID: MW-15D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Trichloroethene	8260B ⁽¹⁾	1100	100	ug/l	MAK	01/04/2005	0036168-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	270	2.0	ug/l	MAK	01/03/2005	0036149-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Client Ref.: 41567320.03

Pace Analytical Services, Inc.

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Phone: 724.733.1161

Fax: 724.327.7793

Lab Project ID: 04-6370
Lab Sample ID: 0412-2827
Client Sample ID: MW-22D
Sample Matrix: Aqueous

Date Sampled: 12/21/2004
Date Received: 12/22/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Benzene	8260B ⁽¹⁾	6.4	1.0	ug/l	MAK	01/03/2005	0036129-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	20	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3200	50	ug/l	MAK	01/04/2005	0036168-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	21	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0

(Continued)

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Lab Sample ID: **0412-2827**
 Client Sample ID: **MW-22D**

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Trichloroethene	8260B ⁽¹⁾	12000	50	ug/l	MAK	01/04/2005	0036168-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	57	2.0	ug/l	MAK	01/03/2005	0036129-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Lab Project ID: 04-6370
 Lab Sample ID: 0412-2828
 Client Sample ID: MW-21D
 Sample Matrix: Aqueous
 Date Sampled: 12/21/2004
 Date Received: 12/22/2004

Client Site: Essex-Hope
 Client Ref.: 41567320.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Benzene	8260B ⁽¹⁾	560	20	ug/l	MAK	01/04/2005	0036168-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	430	20	ug/l	MAK	01/04/2005	0036168-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	28000	500	ug/l	MAK	01/04/2005	0036168-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	280	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

(Continued)

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Lab Sample ID: **0412-2828**
 Client Sample ID: **MW-21D**

Volatiles (Cont.)

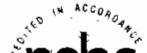
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Toluene	8260B ⁽¹⁾	27	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Trichloroethene	8260B ⁽¹⁾	160000	500	ug/l	MAK	01/04/2005	0036168-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	2400	40	ug/l	MAK	01/04/2005	0036168-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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 Client Ref.: 41567320.03

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Lab Project ID: 04-6370
 Lab Sample ID: 0412-2829
 Client Sample ID: TB-02
 Sample Matrix: Aqueous
 Date Sampled: 12/21/2004
 Date Received: 12/22/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/03/2005	0036129-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1-Dichloroethylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
cis-1,2-Dichloroethylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
trans-1,2-Dichloroethylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0

(Continued)

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Lab Sample ID: 0412-2829

Client Sample ID: TB-02

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	01/03/2005	0036129-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 04-6370
 Lab Sample ID: 0412-2830
 Client Sample ID: DUP-01 (cont'd)
 Sample Matrix: Aqueous

Date Sampled: 12/21/2004
 Date Received: 12/22/2004

Client Site: Essex-Hope
 Client Ref.: 41567320.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Benzene	8260B ⁽¹⁾	6.7	1.0	ug/l	MAK	01/03/2005	0036129-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	20	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3300	50	ug/l	MAK	01/04/2005	0036168-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	17	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036129-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0412-2830
 Client Sample ID: DUP-01 (cont'd - 22 D)

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Trichloroethene	8260B ⁽¹⁾	12000	50	ug/l	MAK	01/04/2005	0036168-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	52	2.0	ug/l	MAK	01/03/2005	0036129-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036129-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Client Site: Essex-Hope
Client Ref.: 41567320.03

Pace Analytical Services, Inc.

5203 Triangle Lane

Export, PA 15632

Phone: 724.733.1161

Fax: 724.327.7793

Lab Project ID: 04-6370
Lab Sample ID: 0412-2831
Client Sample ID: EQUIP BLK
Sample Matrix: Aqueous

Date Sampled: 12/21/2004
Date Received: 12/22/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/03/2005	0036149-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	22	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2005	0036149-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0412-2831
 Client Sample ID: EQUIP BLK

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Trichloroethene	8260B ⁽¹⁾	71	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	01/03/2005	0036149-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2005	0036149-1	<5.0

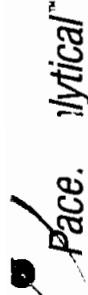
⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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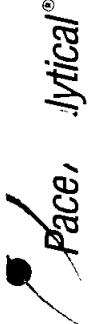
CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

716229

Section B

Required Client Information:		Section A		Section B		Page: 1 of 1		To Be Completed by Pace Analytical and Client		Section C	
Report To:	Customer Name	Client Information (Check quote/contract):	Project Manager:	Project #:	Quote Reference:						
Copy To:	Customer Address	Requested Due Date:									
Invoice To:	PO:										
Phone:	Fax:	Project Name:									
Project Number:											
Section D Required Client Information:		SAMPLE ID		TIME COLLECTED		TIME COLLECTED		Preservatives		Remarks / Lab ID	
One character per box. (A-Z, 0-9, -)		Sample IDs MUST BE UNIQUE		DATE COLLECTED		DATE COLLECTED		# Container(s)		Other	
				mm / dd / yy		hh:mm am / pm		H ₂ SO ₄		Na ₂ O ₃	
								HCl		Methanol	
								HNO ₃		NaOH	
								K ₂ Cr ₂ O ₇		CaCO ₃	
								CH ₃ COOH		HgCl ₂	
								H ₃ PO ₄		AgNO ₃	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	
								HgCl ₂		Al(OH) ₃	
								H ₂ O ₂		Fe(OH) ₃	
								HgCl ₂		Cu(OH) ₂	
								H ₂ O ₂		ZnO	



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-today is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:		Page: <u>of</u>		To Be Completed by Pace Analytical and Client	
Report To:		Client Information (Check quote/contract): Requested Due Date: <u>*TAT</u>		Quote Reference: Project Manager:	
Address		* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge. Turn Around Time (TAT) in calendar days.		Project #: _____ Profile #: _____	
P.O.		Project Name: _____		Requested Analysis:	
Phone		Fax			
Section D		Required Client Information:		Remarks / Lab ID	
ITEM #	SAMPLE ID	Valid Matrix Codes ▲		Preservatives	
		MATRIX CODE	COLLECTED DATE	COLLECTED TIME	# Containers
1	One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	WATER SOIL OIL WIPE AIR TISSUE OTHER	mm / dd / yy	hh:mm am / pm	NaOH Na ₂ S ₂ O ₃ HCl HNO ₃ H ₂ SO ₄ Cu preserved
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
SAMPLE CONDITION		SAMPLE NOTES			
Temp in °C		AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER
Received on Ice	Y/N				
Sealed Cooler	Y/N				
Samples Intact	Y/N				
Additional Comments:					
SAMPLE CONDITION		SAMPLE NOTES		RELINQUISHED BY / AFFILIATION	
Temp in °C				DATE	TIME
Received on Ice	Y/N				
Sealed Cooler	Y/N				
Samples Intact	Y/N				
ACCEPTED BY / AFFILIATION					
DATE	TIME				
SAMPLE NAME AND SIGNATURE					
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:					
DATE Signed: (MM / DD / YY)					

APPENDIX C-3

2004 MONTHLY POTW INFLUENT/EFFLUENT SAMPLE DATA

February 17, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on February 3, 2004. Please reference Pace project number 04-0454 when inquiring about this report.

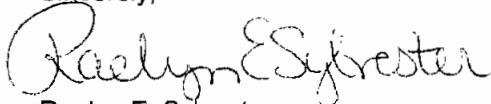
Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0402-0389	Pre-Carb
0402-0390	Primary Effluent
0402-0391	Post-Carb
0402-0395	Trip Blank

General Comments: Cooler temperature 5 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-0454
Lab Sample ID: 0402-0389
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous
Date Sampled: 01/31/2004
Date Received: 02/03/2004

Client Site: Essex-Hope
 Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	31	10	ug/l	JEC	02/09/2004	0027805-1	<10
Benzene	8260B ⁽¹⁾	6.4	1.0	ug/l	JEC	02/09/2004	0027805-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0402-0389**
 Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichloroethene	8260B ⁽¹⁾	390	10	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	620	20	ug/l	JEC	02/09/2004	0027805-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-0454
Lab Sample ID: 0402-0390
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous
Date Sampled: 01/31/2004
Date Received: 02/03/2004

Client Site: Essex-Hope
 Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/09/2004	0027805-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	130	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0402-0390
 Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1300	100	ug/l	JEC	02/09/2004	0027805-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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www.pacelabs.com

Mr. Keith Dodrill

URS Corporation

Construction Services Division

Twin Towers, Suite 250

4955 Steubenville Pike

Pittsburgh, PA 15205

Client Site: Essex-Hope

Client Ref.: 801419.2030

Pace Analytical Services, Inc.

5203 Triangle Lane

Export, PA 15632

Phone: 724.733.1161

Fax: 724.327.7793

Lab Project ID: 04-0454

Lab Sample ID: 0402-0391

Client Sample ID: Post-Carb

Sample Matrix: Aqueous

Date Sampled: 01/31/2004

Date Received: 02/03/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/09/2004	0027805-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	32	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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EDITED IN ACCORDANCE
WITH APPLICABLE STANDARDS
AND METHODS

Lab Sample ID: 0402-0391
 Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	29	2.0	ug/l	JEC	02/09/2004	0027805-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0402-0391 was composited from 4 samples prior to analysis.

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Mr. Keith Dodrill

URS Corporation

Construction Services Division

Twin Towers, Suite 250

4955 Steubenville Pike

Pittsburgh, PA 15205

Lab Project ID: 04-0454

Lab Sample ID: 0402-0395

Client Sample ID: Trip Blank

Sample Matrix: Aqueous

Date Sampled: 01/31/2004

Date Received: 02/03/2004

Client Site: Essex-Hope

Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/09/2004	0027805-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0

(Continued)

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Lab Sample ID: 0402-0395
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	02/09/2004	0027805-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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March 16, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on March 2, 2004. Please reference Pace project number 04-0963 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0403-0526	Pre-Carb
0403-0527	Primary Effluent
0403-0528	Post-Carb
0403-0531	Trip Blank

General Comments: Cooler temperature 5 ° C upon receipt. Ice was present. Sample 0403-0528 was composited from 3 samples prior to analysis.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-0963
 Lab Sample ID: 0403-0526
 Client Sample ID: Pre-Carb
 Sample Matrix: Aqueous
 Date Sampled: 02/27/2004
 Date Received: 03/02/2004

Client Site: Essex-Hope
 Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Benzene	8260B ⁽¹⁾	8.7	1.0	ug/l	MAK	03/07/2004	0028465-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	25	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	4100	50	ug/l	MAK	03/08/2004	0028486-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	19	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	5.3	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0403-0526
 Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Trichloroethene	8260B ⁽¹⁾	770	10	ug/l	MAK	03/07/2004	0028465-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1000	20	ug/l	MAK	03/07/2004	0028465-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	38	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Pittsburgh, PA 15205

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Analytical Services, Inc.
5203 Triangle Lane
Export, PA 15632
Phone: 724.733.1161
Fax: 724.327.7793

Lab Project ID: 04-0963
Lab Sample ID: 0403-0527
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 02/27/2004
Date Received: 03/02/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/07/2004	0028465-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	460	10	ug/l	MAK	03/07/2004	0028465-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0

(Continued)

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TESTED IN ACCORDANCE
WITH APPLICABLE STANDARDS
BY
Pace Analytical Services, Inc.

Lab Sample ID: **0403-0527**
 Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Trichloroethene	8260B ⁽¹⁾	23	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1600	20	ug/l	MAK	03/07/2004	0028465-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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www.pacelabs.com

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Analytical Services, Inc.

5203 Triangle Lane

Export, PA 15632

Phone: 724.733.1161

Fax: 724.327.7793

Lab Project ID: 04-0963
Lab Sample ID: 0403-0528
Client Sample ID: Post-Carb
Sample Matrix: Aqueous
Date Sampled: 02/27/2004
Date Received: 03/02/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/07/2004	0028465-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	28	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0

(Continued)

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Lab Sample ID: 0403-0528
 Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	190	2.0	ug/l	MAK	03/07/2004	0028465-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-0963
Lab Sample ID: 0403-0531
Client Sample ID: Trip Blank
Sample Matrix: Aqueous
Date Sampled: 02/27/2004
Date Received: 03/02/2004

Client Site: Essex-Hope
 Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/08/2004	0028486-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/08/2004	0028486-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/08/2004	0028486-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/08/2004	0028486-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/08/2004	0028486-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0

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Lab Sample ID: 0403-0531
 Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	03/08/2004	0028486-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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April 12, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on April 1, 2004. Please reference Pace project number 04-1477 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 81157118.04

Pace Sample Identification	Client Sample Identification
0404-0421	Pre-Carb
0404-0422	Primary Effluent
0404-0423	Post-Carb
0404-0428	Trip Blank

General Comments: Cooler temperature 6 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,


Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-1477
Lab Sample ID: 0404-0421
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous
Date Sampled: 03/30/2004
Date Received: 04/01/2004

Client Site: Essex-Hope
 Client Ref.: 81157118.04

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Benzene	8260B ⁽¹⁾	5.3	1.0	ug/l	MAK	04/05/2004	0029165-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	10	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2500	10	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	10	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	6.3	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

(Continued)

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Lab Sample ID: 0404-0421
 Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichloroethene	8260B ⁽¹⁾	420	10	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	440	20	ug/l	MAK	04/05/2004	0029165-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	70	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
o-Xylene	8260B ⁽¹⁾	8.1	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-1477
Lab Sample ID: 0404-0422
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous
Date Sampled: 03/30/2004
Date Received: 04/01/2004

Client Site: Essex-Hope
 Client Ref.: 81157118.04

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/05/2004	0029165-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	690	10	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0404-0422**
 Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	920	20	ug/l	MAK	04/05/2004	0029165-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: **04-1477**
 Lab Sample ID: **0404-0423**
 Client Sample ID: Post-Carb
 Sample Matrix: Aqueous
 Date Sampled: 03/30/2004
 Date Received: 04/01/2004

Client Site: Essex-Hope
 Client Ref.: 81157118.04

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/05/2004	0029165-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	28	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

(Continued)

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Lab Sample ID: 0404-0423
 Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	350	2.0	ug/l	MAK	04/05/2004	0029165-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. This sample was composited from four grab samples prior to analysis as requested.

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-1477
Lab Sample ID: 0404-0428
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 03/30/2004
 Date Received: 04/01/2004

Client Site: Essex-Hope
 Client Ref.: 81157118.04

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/05/2004	0029165-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Methylene chloride	8260B ⁽¹⁾	7.7	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

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Lab Sample ID: **0404-0428**
 Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	04/05/2004	0029165-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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May 18, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on May 4, 2004. Please reference Pace project number 04-2011 when inquiring about this report.

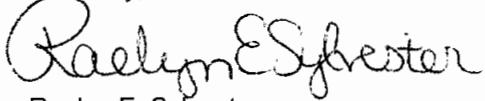
Client Site: Essex-Hope
Client Ref.: 81157118.04

Pace Sample Identification	Client Sample Identification
0405-0484	Pre-Carb
0405-0485	Primary Effluent
0405-0486	Post-Carb
0405-0487	Trip Blank

General Comments: Cooler temperature 7 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-2011
 Lab Sample ID: 0405-0484
 Client Sample ID: Pre-Carb
 Sample Matrix: Aqueous

Date Sampled: 04/30/2004
 Date Received: 05/04/2004

Client Site: Essex-Hope
 Client Ref.: 81157118.04

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Benzene	8260B ⁽¹⁾	5.6	1.0	ug/l	MAK	05/10/2004	0030120-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3000	50	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	16	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0

(Continued)

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Lab Sample ID: **0405-0484**
 Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichloroethene	8260B ⁽¹⁾	620	50	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	530	100	ug/l	MAK	05/10/2004	0030120-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	6.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Pittsburgh, PA 15205

Lab Project ID: 04-2011
Lab Sample ID: 0405-0485
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous
Date Sampled: 04/30/2004
Date Received: 05/04/2004

Client Site: Essex-Hope
Client Ref.: 81157118.04

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	05/10/2004	0030120-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1200	50	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0

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Lab Sample ID: 0405-0485
 Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichloroethene	8260B ⁽¹⁾	9.9	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	860	100	ug/l	MAK	05/10/2004	0030120-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Client Site: Essex-Hope
Client Ref.: 81157118.04

Pace Analytical Services, Inc.
5203 Triangle Lane
Export, PA 15632
Phone: 724.733.1161
Fax: 724.327.7793

Lab Project ID: 04-2011
Lab Sample ID: 0405-0486
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 04/30/2004
Date Received: 05/04/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	05/10/2004	0030120-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,2-Dichloroethylene	8260B ⁽¹⁾	30	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,2-Dichloroethylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0405-0486
 Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	430	20	ug/l	MAK	05/10/2004	0030120-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0405-0487 was composited from 4 samples prior to analysis.

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Lab Project ID: 04-2011
Lab Sample ID: 0405-0487
Client Sample ID: Trip Blank
Sample Matrix: Aqueous
Date Sampled: 04/30/2004
Date Received: 05/04/2004

Client Site: Essex-Hope
Client Ref.: 81157118.04

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	05/10/2004	0030120-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Ethybenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0

(Continued)

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Lab Sample ID: **0405-0487**
 Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	05/10/2004	0030120-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Section A**Required Client Information:**

Section A		Section B		Section C	
Required Client Information:		Page: of		To Be Completed by Pace Analytical and Client Quote Reference:	
Report To: <i>John S. Ross</i>	Copy To: <i>P.O.</i>	Client Information (Check quote/contract): Requested Due Date: <i>7/1/04</i>	* TAT:	Project Manager: <i>John S. Ross</i>	Project #: <i>04-3001</i>
				Profile #: <i>04-3001</i>	Requested Analysis:
Project Name: <i>LSSC-X - Hope</i>		Project Number: <i>7/1/04</i>		Turn Around Time (TAT) in calendar days: <i>45</i>	
Phone: <i>(713) 777-0141</i>		Fax: <i>(713) 777-0141</i>		* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.	
Address: <i>10000 N. Main St., Suite 100, Houston, TX 77040</i>		Invoice To: <i>P.O.</i>		Turn Around Time (TAT) in calendar days: <i>45</i>	
One character per box. (A-Z, 0-9, -)		Sample IDs MUST BE UNIQUE			
SAMPLE ID		Required Client Information:			
# ITEM		Valid Matrix Codes → MATRIX WATER SOIL OIL WIPE AIR TISSUE OTHER		CODE WT SL OL WP AR TS OT	
1 P R E - C A R B		COLLECTED DATE mm / dd / yy		COLLECTED TIME hh:mm a/p	
2 P R I M A R Y - E F F L U E N T		10/1/04		1800	
3 P O S T - C A R B		10/1/04		1800	
4 P D S T - C A R B		10/1/04		1830	
5 P O S T - C A R B		10/1/04		1900	
6 P D S T - C A R B		10/1/04		1930	
7 P R I P - B L A N K		10/1/04		3	
8					
9					
10					
11					
12					
SITE LOCATION		REGULATORY AGENCY		RELINQUISHED BY / AFFILIATION	
<input type="checkbox"/> NC <input type="checkbox"/> SC <input type="checkbox"/> GA <input type="checkbox"/> Other		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> Other		DATE: <i>John S. Ross 11/04</i> TIME: <i>5:30 PM</i> ACCEPTED BY / AFFILIATION: <i>Pace Express</i> DATE: <i>5-30-04</i> TIME: <i>1:30 PM</i>	
SAMPLE CONDITION		SAMPLE NOTES		SAMPLER NAME AND SIGNATURE	
Temp in °C <i>72</i>		SAMPLE NOTES: <i>Combine & Post-Cool Sample before Analysis</i>		PRINT Name of SAMPLER: <i>John S. Ross</i> DATE Signed: <i>5-30-04</i> <i>John S. Ross</i>	
Received on Ice <input type="checkbox"/>					
Sealed Cooler <input type="checkbox"/>					
Samples Intact <input type="checkbox"/>					
Additional Comments: <i>None</i>					

SEE REVERSE SIDE FOR INSTRUCTIONS

June 15, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on June 1, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-2515 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320

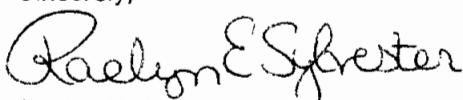
Pace Sample Identification	Client Sample Identification
0406-0438	Pre-Carb
0406-0439	Primary Effluent
0406-0440	Post-Carb
0406-0441	RW-1S
0406-0442	RW-1D

Pace Sample Identification	Client Sample Identification
0406-0443	RW-2S
0406-0444	RW-2D
0406-0445	RW-3S
0406-0446	Trip Blank

General Comments: Cooler temperature 6 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 20

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-2515
Lab Sample ID: 0406-0438
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous
Date Sampled: 05/27/2004
Date Received: 06/01/2004

Client Site: Essex-Hope
 Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	4.7	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2600	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0406-0438
 Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	680	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	530	100	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-2515
Lab Sample ID: 0406-0439
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 05/27/2004
Date Received: 06/01/2004

Client Site: Essex-Hope
 Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	5.2	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2100	10	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0406-0439**
 Client Sample ID: Primary Effluent

Volatile (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	870	20	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Client Site: Essex-Hope
 Client Ref.: 41567320

Lab Project ID: 04-2515
 Lab Sample ID: 0406-0440
 Client Sample ID: Post-Carb
 Sample Matrix: Aqueous
 Date Sampled: 05/27/2004
 Date Received: 06/01/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	27	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0406-0440
 Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1700	20	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. As requested, sample 0406-0440 was composited from the 4 samples prior to analysis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-2515
 Lab Sample ID: 0406-0446
 Client Sample ID: Trip Blank
 Sample Matrix: Aqueous

Date Sampled: 05/27/2004
 Date Received: 06/01/2004

Client Site: Essex-Hope
 Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0406-0446**
 Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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July 13, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on June 28, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-3031 when inquiring about this report.

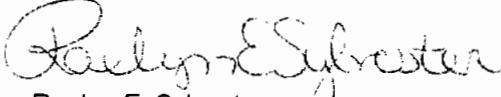
Client Site: Essex-Hope
Client Ref.: 41567320

Pace Sample Identification	Client Sample Identification
0406-2714	Pre-Carb
0406-2715	Primary Effluent
0406-2716	Post-Carb
0406-2717	Trip Blank

General Comments: Cooler temperature 8 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-3031
Lab Sample ID: 0406-2714
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous
Date Sampled: 06/25/2004
Date Received: 06/28/2004

Client Site: Essex-Hope
 Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Benzene	8260B ⁽¹⁾	5.7	1.0	ug/l	MAK	07/08/2004	0031624-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3200	50	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	17	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0406-2714
 Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichloroethene	8260B ⁽¹⁾	690	50	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	590	100	ug/l	MAK	07/08/2004	0031624-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Pace Analytical Services, Inc.

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Export, PA 15632

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Fax: 724.327.7793

Mr. Keith Dodrill

URS Corporation

Construction Services Division

Twin Towers, Suite 250

4955 Steubenville Pike

Pittsburgh, PA 15205

Lab Project ID: 04-3031

Lab Sample ID: 0406-2715

Client Sample ID: Primary Effluent

Sample Matrix: Aqueous

Date Sampled: 06/25/2004

Date Received: 06/28/2004

Client Site: Essex-Hope

Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/08/2004	0031624-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	37	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0406-2715
 Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1300	20	ug/l	MAK	07/08/2004	0031624-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
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 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-3031
 Lab Sample ID: 0406-2716
 Client Sample ID: Post-Carb
 Sample Matrix: Aqueous
 Date Sampled: 06/25/2004
 Date Received: 06/28/2004

Client Site: Essex-Hope
 Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/08/2004	0031624-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	280	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive
Pittsburgh, PA 15220

Lab Project ID: 04-4123
Lab Sample ID: 0408-2559
Client Sample ID: Pre Carb
Sample Matrix: Aqueous
Date Sampled: 08/29/2004
Date Received: 08/31/2004

Client Site: Essex-Hope
Client Ref.: 41567300

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
Benzene	8260B ⁽¹⁾	10	1.0	ug/l	MAK	09/08/2004	0033166-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	25	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	4700	50	ug/l	MAK	09/08/2004	0033166-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	49	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0

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Lab Sample ID: **0408-2559**
 Client Sample ID: Pre Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Trichloroethene	8260B ⁽¹⁾	750	50	ug/l	MAK	09/08/2004	0033166-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	800	100	ug/l	MAK	09/08/2004	0033166-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Sample ID: **0406-2716**
 Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	07/08/2004	0031624-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0406-2716 was composited from 4 samples prior to analysis.

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Twin Towers, Suite 250
 4955 Steubenville Pike
 Pittsburgh, PA 15205

Lab Project ID: 04-3031
 Lab Sample ID: 0406-2717
 Client Sample ID: Trip Blank
 Sample Matrix: Aqueous
 Date Sampled: 06/25/2004
 Date Received: 06/28/2004

Client Site: Essex-Hope
 Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/08/2004	0031624-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Methylene chloride	8260B ⁽¹⁾	93	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0

(Continued)

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Lab Sample ID: 0406-2717
 Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	07/08/2004	0031624-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0

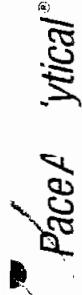
⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Section B

Required Client Information:

Section A

URS. Corp
1155 Gionbelle Pike
in Tower's Suite 2250
Pittsburgh, PA 15205
Fax 412-277-1112

Section D **Baileys Client Information**

SAMPLE ID

One character per box.
(A-Z, 0-9, /, -)

Sample IDs MUST BE UNIQUES

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- C A R B

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SAMPLE NOTES

Combine

Intro / 46

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September 17, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive
Pittsburgh, PA 15220

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on August 31, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-4123 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567300

Pace Sample Identification	Client Sample Identification
0408-2559	Pre Carb
0408-2562	Trip Blank

General Comments: Cooler temperature 2 ° C upon receipt. Ice was present. The vials for samples 0408-2560 (Primary Effluent) and 0408-2561 (Post Carb) were received frozen. The vials for these samples were received broken.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



for
Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 6

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive
 Pittsburgh, PA 15220

Lab Project ID: 04-4123
Lab Sample ID: 0408-2562
 Client Sample ID: Trip Blank
 Sample Matrix: Aqueous

Date Sampled: 08/29/2004
Date Received: 08/31/2004

Client Site: Essex-Hope
 Client Ref.: 41567300

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	09/08/2004	0033166-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0408-2562

Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	09/08/2004	0033166-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Memorandum

Date: 11-4-04
To: File
From: Keith Dodrill
Subject: *Essex/Hope O&M
Project No. 41567320.01
Monthly POTW Sampling Events for July and August 2004*

Contacted Raelynn Sylvester (Pace Analytical) concerning July 2004 sampling records. Pace analytical reports are for samples received 6-1-04, 6-28-04 and 8-31-04. No July samples were received.

A carbon change-out and recovery well development took place in July 2004 and the system was down for these activities.

Samples received on 8-31-04 were broken in transit, and only the Pre-Carb samples could be analyzed. URS attempted a re-sample the week of September 6, 2004, but the samples were incorrectly routed by Pace to their radiological laboratory, and beyond the sample holding time when discovered.

URS
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205
Tel: 412-788-2717
Fax: 412-788-1316

www.urs.com C:\Users\dodrill_keith\My Documents\1 PROJECTS (active)\EssexHope\2004 Reports\File Memo July and Aug POTW Sampling_11-04-04 KD.dot

October 14, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on September 30, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-4641 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320.01

Pace Sample Identification	Client Sample Identification
0409-2720	Pre-Carb
0409-2721	Primary Effluent
0409-2722	Post-Carb
0409-2723	Trip Blank

General Comments: Cooler temperature 6 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodril
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 04-4641
Lab Sample ID: 0409-2720
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous
Date Sampled: 09/29/2004
Date Received: 09/30/2004

Client Site: Essex-Hope
 Client Ref.: 41567320.01

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Benzene	8260B ⁽¹⁾	8.1	1.0	ug/l	MAK	10/07/2004	0034000-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	22	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	4400	50	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	33	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0409-2720

Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichloroethene	8260B ⁽¹⁾	640	50	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	880	100	ug/l	MAK	10/07/2004	0034000-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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1
 ISSUED IN ACCORDANCE

Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 04-4641
Lab Sample ID: 0409-2721
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous
Date Sampled: 09/29/2004
Date Received: 09/30/2004

Client Site: Essex-Hope
 Client Ref.: 41567320.01

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	10/07/2004	0034000-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

(Continued)

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Lab Sample ID: **0409-2721**
 Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichloroethene	8260B ⁽¹⁾	8.6	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	930	20	ug/l	MAK	10/07/2004	0034000-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. VOA: One surrogate was outside QC limits in the neat analysis on this sample. All surrogate recoveries were acceptable in the dilution, therefore matrix interference is suspected.

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 04-4641
Lab Sample ID: 0409-2722
Client Sample ID: Post-Carb
Sample Matrix: Aqueous
Date Sampled: 09/29/2004
Date Received: 09/30/2004

Client Site: Essex-Hope
 Client Ref.: 41567320.01

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	10/07/2004	0034000-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Ethybenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0409-2722
 Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	9.7	2.0	ug/l	MAK	10/07/2004	0034000-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0409-2722 was composited from 4 samples prior to analysis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 04-4641
 Lab Sample ID: 0409-2723
 Client Sample ID: Trip Blank
 Sample Matrix: Aqueous
 Date Sampled: 09/29/2004
 Date Received: 09/30/2004

Client Site: Essex-Hope
 Client Ref.: 41567320.01

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	10/07/2004	0034000-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,3-Dichloropropene	3260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0409-2723
 Client Sample ID: Trip Blank

Volatiles (Cont.)

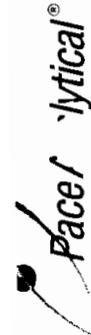
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	10/07/2004	0034000-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section B

Required Client Information:		Section A		Section B		Page: 1 of 1		Section C	
Report To:	Kelly DeMille	Client Information (Check quote/contract):		To Be Completed by Pace Analytical and Client		Quote Reference:			
Copy To:		Requested Due Date:	*TAT:	Project Manager:					
Invoice To:		Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge. Turn Around Time (TAT) in calendar days.				Project #:	1244-5461	Profile #:	
P.O.						Requested Analysis:			
Project Name:	Exxon - Hope								
Project Number:	4367320101								
Phone:	503-666-1520								
Fax:	503-666-3046								
Section D		Required Client Information:		SAMPLE ID		Preservatives		Remarks / Lab ID	
#	ITEM	Valid Matrix Codes	CODE	MATRIX CODE	DATE COLLECTED	TIME COLLECTED	# Containers	Preservative	Remarks / Lab ID
1	PR E-CARB	WT	WT	9-2004/1430	3	X			09 2320
2	PR MARRIETTE UNIT	SL	SL						10 21
3	PO ST-CARB	OL	OL						10 22
4	PO ST-CARB	WP	WP						10 23
5	PO ST-CARB	AIR	AIR						10 24
6	PO ST-CARB	TS	TS						10 25
7	PR-BELANKA	OT	OT						10 26
8									
9									
0									
1									
2									
SITE LOCATION		REGULATORY AGENCY		REINQUISITION BY / AFFILIATION		DATE		TIME	
Temp in °C	<input type="checkbox"/> NC <input type="checkbox"/> SC <input type="checkbox"/> GA <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> Other	Other	RCRA	Other	RCRA	Other	RCRA	Other	RCRA
Received on Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/> Y/N	<input type="checkbox"/> Y/N	<input type="checkbox"/> Y/N	<input type="checkbox"/> Y/N	<input type="checkbox"/> Y/N	<input type="checkbox"/> Y/N	<input type="checkbox"/> Y/N	<input type="checkbox"/> Y/N
Cooled Cooler	<input type="checkbox"/> Y/N								
Samples Intact	<input type="checkbox"/> Y/N								
Additional Comments:									
SAMPLE NOTES									
Combine 4 Post-Carb Samples into 1 for Analysis									
SAMPLE NAME AND SIGNATURE									
PRINT Name of SAMPLER:		John Ross		9-29-04		10-01		FED EX	
SIGNATURE of SAMPLER:				9-30-04		10-01		FED EX	
DATE Signed: (MM / DD / YY)									

November 10, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on November 2, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-5407 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320

Pace Sample Identification	Client Sample Identification
0411-0631	Pre-Carb
0411-0632	Primary Effluent
0411-0633	Post-Carb
0411-0634	Trip Blank

General Comments: Cooler temperature 5 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.

5203 Triangle Lane

Export, PA 15632

Phone: 724.733.1161

Fax: 724.327.7793

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 04-5407
Lab Sample ID: 0411-0631
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 10/31/2004
Date Received: 11/02/2004

Client Site: Essex-Hope
Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Benzene	8260B ⁽¹⁾	11	1.0	ug/l	MAK	11/05/2004	0034772-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	25	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	5300	50	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	36	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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10/04 IN ACCORDANCE

Lab Sample ID: 0411-0631
 Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichloroethene	8260B ⁽¹⁾	960	50	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	720	100	ug/l	MAK	11/05/2004	0034772-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Client Site: Essex-Hope
Client Ref.: 41567320

Pace Analytical Services, Inc.
5203 Triangle Lane
Export, PA 15632
Phone: 724.733.1161
Fax: 724.327.7793

Lab Project ID: 04-5407
Lab Sample ID: 0411-0632
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous
Date Sampled: 10/31/2004
Date Received: 11/02/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/05/2004	0034772-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	960	10	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0411-0632**
 Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichloroethene	8260B ⁽¹⁾	51	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	770	20	ug/l	MAK	11/05/2004	0034772-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 04-5407
Lab Sample ID: 0411-0633
Client Sample ID: Post-Carb
Sample Matrix: Aqueous
Date Sampled: 10/31/2004
Date Received: 11/02/2004

Client Site: Essex-Hope
 Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/05/2004	0034772-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0411-0633
 Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	20	2.0	ug/l	MAK	11/05/2004	0034772-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0411-0633 was composited from four vials prior to analysis.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.

5203 Triangle Lane

Export, PA 15632

Phone: 724.733.1161

Fax: 724.327.7793

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 04-5407
Lab Sample ID: 0411-0634
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 10/31/2004
Date Received: 11/02/2004

Client Site: Essex-Hope
Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/05/2004	0034772-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

(Continued)

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Lab Sample ID: **0411-0634**
 Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	11/05/2004	0034772-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Section A

Required Client Information:	
Company <i>WPS Corp</i>	Report To: <i>John Phillips</i>
Address <i>1000 Phillips Drive, Suite 3a</i>	Copy To: <i>John Phillips</i>
Invoice To: <i>P.O.</i>	
Project Name: <i>Site Impact 101517D</i>	
Project Number: <i>211567320</i>	
Phone: 503-466-9109 Fax: 503-466-9109	

Section B

Page: 1 of 1

Required Client Information:		Section C	
		To Be Completed by Pace Analytical and Client	Quote Reference:
		Project Manager:	
		Project #: <i>04-1017</i>	Profile #:
		Requested Analysis:	
Client Information (Check quote/contract):		Turn around time less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.	
Requested Due Date:		Turn Around Time (TAT) in calendar days.	
AT COLLECTION TEMP		Remarks / Lab ID	
SAMPLE CODE		Preservatives	
ITEM #	Valid Matrix Codes	COLLECTED	TIME
1	DW G=GRAB C=COMP	<i>10-24-94</i>	<i>0830</i>
2	DW G=GRAB C=COMP	<i>10-24-94</i>	<i>0830</i>
3	DW G=GRAB C=COMP	<i>10-24-94</i>	<i>0830</i>
4	DW G=GRAB C=COMP	<i>10-24-94</i>	<i>0830</i>
5	DW G=GRAB C=COMP	<i>10-24-94</i>	<i>0830</i>
6	DW G=GRAB C=COMP	<i>10-24-94</i>	<i>0830</i>
7	DW G=GRAB C=COMP	<i>10-24-94</i>	<i>0830</i>
8			
9			
10			
11			
12			
REGULATORY AGENCY		RElinquished By / AFFILIATION	
<input type="checkbox"/> NC <input type="checkbox"/> SC <input type="checkbox"/> GA <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> Other		<i>John D. Rossen</i> <i>11/14/94</i> <i>12/11</i>	
<input type="checkbox"/> UST <input type="checkbox"/> RCRA		<i>John D. Rossen</i> <i>11/14/94</i> <i>12/11</i>	
SAMPLE CONDITION		SAMPLE NOTES	
Temp in °C		<i>Combustible</i> <i>100° F</i> <i>100° C</i>	
Received on Ice Y/N		<i>No</i>	
Sealed Cooler Y/N		<i>No</i>	
Samples Intact Y/N		<i>No</i>	
Additional Comments:			

SEE REVERSE SIDE FOR INSTRUCTIONS

SAMPLER NAME AND SIGNATURE

PRINT Name of Sampler:

SIGNATURE of Sampler:

DATE Signed: (MM/DD/YY)

John Rossen *11/14/94*

December 8, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on November 30, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-5906 when inquiring about this report.

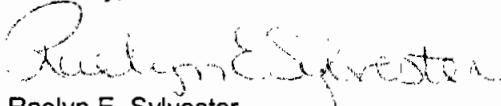
Client Site: Essex-Hope
Client Ref.: 41567320.04

Pace Sample Identification	Client Sample Identification
0411-2897	Pre-Carb
0411-2898	Primary Effluent
0411-2899	Post-Carb
0411-2900	Trip Blank

General Comments: Cooler temperature 5 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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www.pacelabs.com

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Client Site: Essex-Hope
Client Ref.: 41567320.04

Pace Analytical Services, Inc.

5203 Triangle Lane

Export, PA 15632

Phone: 724.733.1161

Fax: 724.327.7793

Lab Project ID: 04-5906
Lab Sample ID: 0411-2897
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 11/29/2004
Date Received: 11/30/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Benzene	8260B ⁽¹⁾	5.2	1.0	ug/l	MAK	12/03/2004	0035467-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	11	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2600	50	ug/l	MAK	12/03/2004	0035467-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0411-2897**
 Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Trichloroethene	8260B ⁽¹⁾	510	50	ug/l	MAK	12/03/2004	0035467-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	350	2.0	ug/l	MAK	12/03/2004	0035467-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 04-5906
 Lab Sample ID: 0411-2898
 Client Sample ID: Primary Effluent
 Sample Matrix: Aqueous
 Date Sampled: 11/29/2004
 Date Received: 11/30/2004

Client Site: Essex-Hope
 Client Ref.: 41567320.04

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/03/2004	0035467-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	550	10	ug/l	MAK	12/03/2004	0035467-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0

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Lab Sample ID: **0411-2898**
 Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Trichloroethene	8260B ⁽¹⁾	11	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	590	20	ug/l	MAK	12/03/2004	0035467-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Foster Plaza 4
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Client Site: Essex-Hope
Client Ref.: 41567320.04

Pace Analytical Services, Inc.

5203 Triangle Lane

Export, PA 15632

Phone: 724.733.1161

Fax: 724.327.7793

Lab Project ID: 04-5906
Lab Sample ID: 0411-2899
Client Sample ID: Post-Carb
Sample Matrix: Aqueous
Date Sampled: 11/29/2004
Date Received: 11/30/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035475-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/03/2004	0035475-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035475-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.8	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035475-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035475-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0

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Lab Sample ID: 0411-2899
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	91	2.0	ug/l	MAK	12/03/2004	0035475-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0411-2899 was composited from 4 samples prior to analysis.

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Lab Project ID: 04-5906
Lab Sample ID: 0411-2900
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 11/29/2004
Date Received: 11/30/2004

Client Site: Essex-Hope
Client Ref.: 41567320.04

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/03/2004	0035467-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0

(Continued)

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Lab Sample ID: 0411-2900
 Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	12/03/2004	0035467-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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860581

Required Client Information: **Section A**

Report To: <i>Project Manager</i>	Client Information (Check quote/contact):	To Be Completed by Pace Analytical and Client
Company: <i>Project Manager</i>	Project Manager:	Section C
Address: <i>Project Manager</i>	Quote Reference:	
PO: <i>Project Manager</i>	Requested Due Date:	
Project Name: <i>Project Manager</i>	Project #: <i>04</i>	
Project Number: <i>Project Manager</i>	Profile #:	
Phone: <i>Project Manager</i>	Requested Analysis:	
Fax: <i>Project Manager</i>		

Required Client Information: **Section B**

Page: <i>of</i>	
Copy To:	
Invoice To:	
Requested Due Date:	*TAT:
Turn around time less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.	
Turn Around Time (TAT) in calendar days.	

Section D Required Client Information: **SAMPLE ID**

One character per box.
(A-Z, 0-9, -)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX CODE

G=GRAB

C=COMP

AT COLLE

TEMP

WATER

DRINKING

GROUND

WATER

SW

WW

P

SL

OL

WP

AR

OT

COLLECTED

START

TIME

DATE

END

TIME

DATE

January 11, 2005

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on December 30, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-6464 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320.03

Pace Sample Identification	Client Sample Identification
0412-3302	Pre-Carb
0412-3303	Primary Effluent
0412-3304	Post-Carb
0412-3305	Trip Blank

General Comments: Cooler temperature 2 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.

5203 Triangle Lane

Export, PA 15632

Phone: 724.733.1161

Fax: 724.327.7793

Mr. Keith Dodrill

URS Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Lab Project ID: 04-6464

Lab Sample ID: 0412-3302

Client Sample ID: Pre-Carb

Sample Matrix: Aqueous

Date Sampled: 12/29/2004

Date Received: 12/30/2004

Client Site: Essex-Hope

Client Ref.: 41567320.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
Benzene	8260B ⁽¹⁾	8.1	1.0	ug/l	MAK	01/07/2005	0036268-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	20	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	4100	50	ug/l	MAK	01/07/2005	0036268-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	44	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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EDITED IN ACCORDANCE
WITH APPLICABLE STANDARDS
AND METHODS

Lab Sample ID: 0412-3302
 Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Trichloroethene	8260B ⁽¹⁾	1000	50	ug/l	MAK	01/07/2005	0036268-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	620	100	ug/l	MAK	01/07/2005	0036268-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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www.pacelabs.com

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Client Site: Essex-Hope
Client Ref.: 41567320.03

Pace Analytical Services, Inc.

5203 Triangle Lane

Export, PA 15632

Phone: 724.733.1161

Fax: 724.327.7793

Lab Project ID: 04-6464
Lab Sample ID: 0412-3303
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 12/29/2004
Date Received: 12/30/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/07/2005	0036266-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.8	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,2-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0412-3303**
 Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	360	2.0	ug/l	MAK	01/07/2005	0036266-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 04-6464
Lab Sample ID: 0412-3304
Client Sample ID: Post-Carb
Sample Matrix: Aqueous
Date Sampled: 12/29/2004
Date Received: 12/30/2004

Client Site: Essex-Hope
 Client Ref.: 41567320.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/07/2005	0036268-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	270	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0412-3304
 Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	01/07/2005	0036268-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. VOA: Sample 0412-3304 was composited from 4 samples prior to analysis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: **04-6464**
 Lab Sample ID: **0412-3305**
 Client Sample ID: Trip Blank
 Sample Matrix: Aqueous
 Date Sampled: 12/29/2004
 Date Received: 12/30/2004

Client Site: Essex-Hope
 Client Ref.: 41567320.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	34	10	ug/l	MAK	01/07/2005	0036266-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/07/2005	0036266-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
Methylene chloride	8260B ⁽¹⁾	250	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0412-3305**
 Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	01/07/2005	0036266-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Section A

Company	URS Corp
Address	Foster Plaza 4
	501 Holiday Drive Suite 300
	Pittsburgh, PA 15220
Phone	412.503.4669
Fax	

Section B

Page: / of /

To Be Completed by Pace Analytical and Client
Quote Reference:

Client Information (Check quote/contact):
Requested Due Date: *TAT:

Project Manager:

Project #: 04-6464

Profile #:

Requested Analysis:

* Turn around times less than 14 days subject to
laboratory and contractual obligations and may result in a
Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

SAMPLE ID

One character per box.
(A-Z, 0-9, -)

Sample IDs MUST BE UNIQUE

#	Valid Matrix Codes	CODE	DATE COLLECTED	TIME COLLECTED	# Containers	Preservatives	Remarks / Lab ID
1	MATRIX WATER SOIL OIL WIPE AIR TISSUE OTHER	WT SL OL WP AR TS OT	14	12:29:04	0600	3	X
2	PR	R	14	12:29:04	0600	3	
3	PR	S	14	12:29:04	0600	3	
4	PR	O	14	12:29:04	0600	3	
5	PR	T	14	12:29:04	0600	3	
6	PR	S	14	12:29:04	0600	3	
7	TR	P	14	12:29:04	0600	3	
8							
9							
10							
11							
12							

REGULATORY AGENCY

□ NC	□ SC	□ GA	□ NPDES	□ GROUND WATER	□ DRINKING WATER	□ Other
------	------	------	---------	----------------	------------------	---------

SAMPLE NOTES

Combine 4 Post-Carb
Samples into 1 for Analysis

RELINQUISHED BY / AFFILIATION

John S. Ross URS	12/29/04 1600	Fed Express	12/29/04 1600
John S. Ross	12/29/04 1600	Cabot	12/30/04 10 AM

ACCEPTED BY / AFFILIATION

John S. Ross	12/29/04 1600	Fed Express	12/29/04 1600
John S. Ross	12/29/04 1600	Cabot	12/30/04 10 AM

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John S. Ross	DATE Signed: (MM / DD / YY) 12/29/04
SIGNATURE of SAMPLER: 	



APPENDIX D

SVE/SPARGING SYSTEMS PERFORMANCE DATA

APPENDIX D-1

2004 PERFORMANCE DATA

NPLS Area
2004 SVE System Monitoring Data
Essesx/Hope Site Remedial Action
Jamestown, New York
URS Project No. 801419

Date	Total (million)	Elapsed Time (days)	Avg Velocity (mm/day)	Water Level (mm)	Flow Rate (m³/s)	Flow Rate Assumed	Flow Rate Assumed	Flow Rate Assumed	18 Hours On / Off				
1/12/2004	1600	2256	1900	186	32	104	1.0	40	72	NA	NA	NA	NA
2/7/2004	745	2293	1800	157	15	64	1.0	36	84	NA	NA	NA	NA
2/22/2004	930	2298	1900	188	20	90	1.0	40	68	NA	NA	NA	NA
3/7/2004	B15	2312	2000	175	35	92	1.0	42	80	NA	NA	NA	NA
3/21/2004	745	2326	NM	NA	50	112	1.0	40	84	NA	NA	NA	NA
4/5/2004	1530	2341	1700	148	35	106	1.0	40	78	NA	NA	NA	NA
4/18/2004	830	2354	1900	166	30	100	1.0	46	82	NA	NA	NA	NA
5/2/2004	845	2368	1900	166	27	96	1.0	54	84	NA	NA	NA	NA
5/16/2004	1030	2382	2000	175	30	102	1.0	58	88	NA	NA	NA	NA
5/30/2004	830	2396	1900	166	30	98	1.0	60	86	NA	NA	NA	NA
6/15/2004	600	2410	NM	(140)	18	92	1.0	64	90	NA	NA	NA	NA
6/27/2004	1030	2424	NM	(140)	15	90	1.0	66	90	NA	NA	NA	NA
7/18/2004	800	2445	NM	(140)	25	92	1.0	68	96	NA	NA	NA	NA
8/1/2004	1030	2459	1600	140	25	104	1.0	70	98	NA	NA	NA	NA
8/15/2004	1045	2473	1600	140	22	104	1.0	66	96	NA	NA	NA	NA
9/5/2004	800	2494	1750	153	25	104	1.0	70	98	NA	NA	NA	NA
9/26/2004	1000	2515	1500	131	26	114	1.0	84	96	NA	NA	NA	NA
10/10/2004	945	2529	1800	140	22	110	1.0	62	92	NA	NA	NA	NA
10/24/2004	1000	2543	1700	148	25	118	1.0	58	92	NA	NA	NA	NA
11/17/2004	830	2557	1800	157	30	120	1.0	54	86	NA	NA	NA	NA
12/2/2004	330	2562	1900	166	40	140	1.0	44	84	NA	NA	NA	NA
													24-Hr On / Off 12/1/04 - 12/3/04

10

Conversion in CFM = $FPM^{\frac{1}{3}} / 0.07632$, for 4-min runs

NPLS

2004 SVE System Airstream Sample Results - 601/602 Scan

Essex/Hope Site Remedial Action

Jamestown, New York

URS Project No. 801419

Effluent Constituents	Date/ Sample Results (ppmv)	Date/ Sample Results (ppmv)
1,1 Dichloroethane	<.010	<.010
1,1,1 Trichloroethane	<.0050	<.0050
Trichloroethene	0.054	0.026
Tetrachloroethene	<.005	<.005
cis-1,2-Dichlorethene	0.034	0.036
Ethylbenzene	<0.1	<0.1
Toluene	<0.1	<0.1
M&P-Xylene	<0.2	<0.2
O-Xylene	<0.1	<0.1
Total VOCs	0.088	0.062

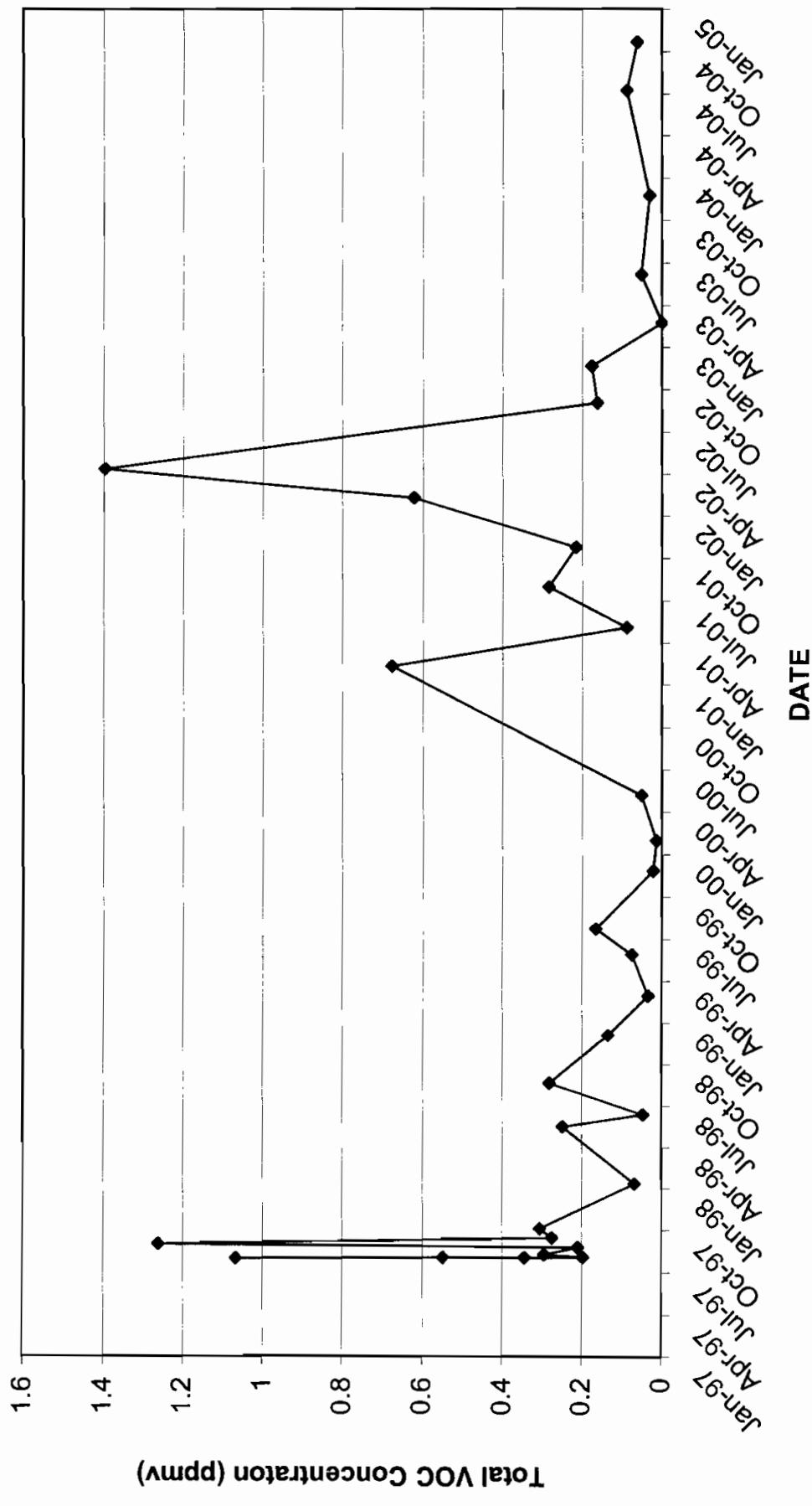
Effluent Constituents	Date/ Sample Results (ppmv)	Date/ Sample Results (ppmv)
1,1 Dichloroethane	<0.01	<0.01
1,1,1 Trichloroethane	<0.005	<0.005
Trichloroethylene	<0.005	0.012
Tetrachloroethylene	<0.005	<0.005
cis-1,2-Dichlorethene	0.055	0.031
Ethyl Benzene	<0.10	<0.10
Toluene	<0.10	<0.10
M&P-Xylene	<0.2	<0.2
O-Xylene	<0.1	<0.1
Total VOCs	0.055	0.043

Notes:

Only detected and historically detected VOCs shown

NA - Not Analyzed

**Appendix D-1
NPLS AREA
AIRSTREAM TOTAL VOC CONCENTRATIONS
1997-2004**



NPLS**2004 SVE System Discharge Rates (Influent)**

Essex/Hope Site Remedial Action
Jamestown, New York
URS Project No. 801419

Period	VOCs (lb)
Jan - July	8.68E-01
Aug - Dec	4.19E-01
Total	1.29

Quarterly Average-Trichloroethylene

Report Period	Avg. Flow Rate (cfm)	Avg. Vapor Conc. (ppmv)	Extraction Hours	Discharge Rate (lb/hr)	Estimated Pounds Discharged
Jan - July	158	131.39	0.054	3392	1.75E-04
Aug - Dec	149.8	131.39	0.026	2600	7.98E-05
Estimated Pounds Removed:					0.80

Quarterly Average- cis-1,2-Dichloroethene

Report Period	Avg. Flow Rate (cfm)	Avg. Vapor Conc. (ppmv)	Extraction Hours	Discharge Rate (lb/hr)	Estimated Pounds Discharged
Jan - July	158	96.94	0.034	3392	8.12E-05
Aug - Dec	149.8	96.94	0.036	2600	8.15E-05
Estimated Pounds Removed:					0.49

Monthly Data

Month	Avg. Flow Rate (cfm)	Extraction Hours
Jan	166	496
Feb	161.5	448
Mar	175	496
Apr	157	480
May	169	496
June	140	480
July	140	496
Aug	140	496
Sept	142	480
Oct	144	496
Nov	157	480
Dec	166	648

Notes:

Mass removal calculations are based upon actual vapor extraction time.

$$\text{Calculation: } R = [C * ((Mw/385) * 10^6)] * [Q * (60 \text{ min}/1 \text{ hr})]$$

R = Mass Removal Rate (lb/hour)

C = Discharge Vapor Concentration (ppmv)

Mw = Molecular weight of Constituent

Q = Air Flow Rate (cfm)

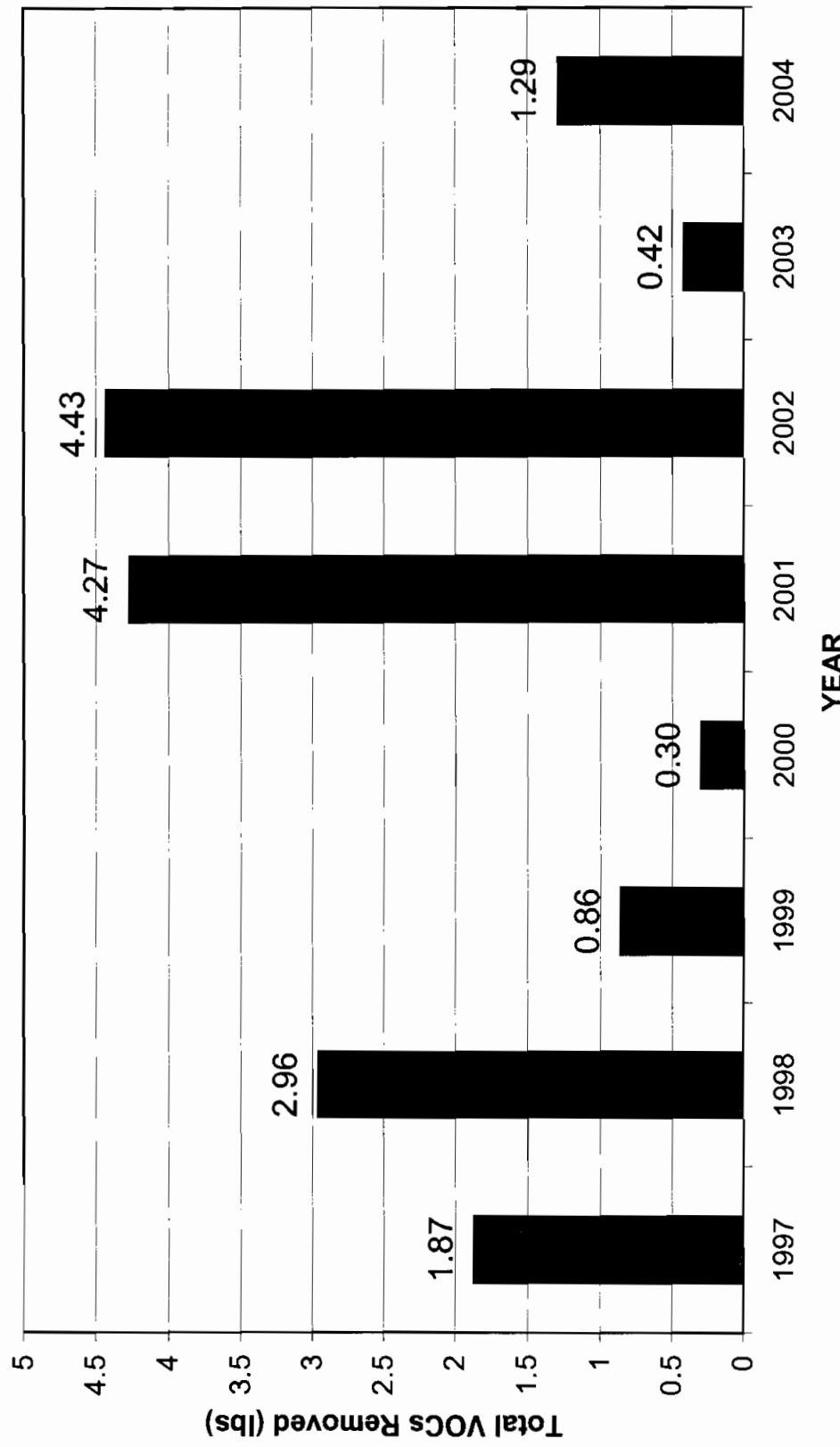
1 ppmv = $(Mw/385) * 10^{-6}$ [lb/ft³] at 68 °F

$$\text{Calculation: } M = R * T$$

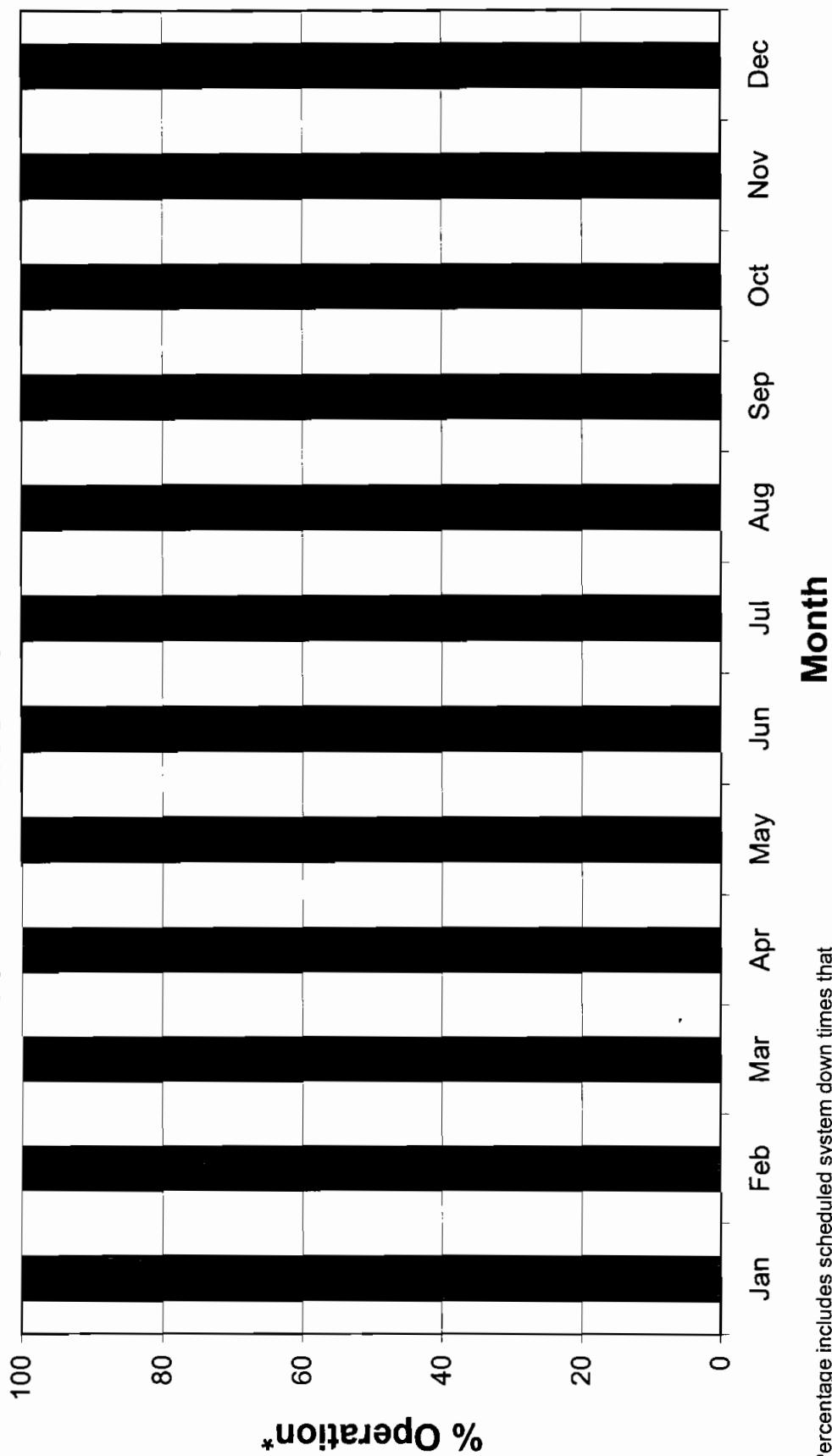
M = Mass Removed (lb)

T = Extraction Time (hours)

Appendix D-1
NPLS AREA
TOTAL VOCs REMOVED
1997-2004



NPLS AREA 2004 OPERATION SUMMARY



*Percentage includes scheduled system down times that allow for groundwater introduction into the area.

AST/UST Area
2004 SVE System Monitoring Data
Essex/Hope Site Remedial Action
Jamesstown, New York
URS Project No. 801419

Date	Time (military)	Elapsed Time (days)	Air Velocity (ft/min)	Air Flow Rate (ft/min)	Spare Pump (ft/min)	Sparging (ft/min)	Rate (in/sec)
1/12/2004	1730	2256	3000	262	65	60	0.4
2/7/2004	0600	2283	2700	238	80	60	0.4
2/22/2004	0800	2298	3000	262	70	65	0.4
3/7/2004	0915	2312	3500	305	70	65	0.4
3/21/2004	2700	2326	2700	236	70	65	0.4
4/5/2004	1845	2341	2700	236	80	55	0.4
4/18/2004	0830	2354	2700	238	60	55	0.4
5/2/2004	1020	2368	2500	218	60	55	0.4
5/16/2004	0630	2382	2900	253	60	55	0.4
5/30/2004	1030	2396	2700	236	80	55	0.4
6/13/2004	0830	2410	2600	227	55	48	0.4
6/27/2004	0800	2424	2500	218	60	55	0.4
7/18/2004	0830	2445	2800	253	65	80	0.4
8/17/2004	0900	2459	3100	271	60	55	0.4
8/15/2004	0830	2473	2600	227	60	55	0.4
9/5/2004	0830	2484	2400	208	60	55	0.4
9/26/2004	0800	2515	2400	209	60	55	0.4
10/10/2004	0800	2529	2500	218	55	50	0.4
10/24/2004	0800	2543	2400	209	60	55	0.4
11/7/2004	1000	2557	2500	218	60	55	0.4
12/17/2004	0445	2592	2800	244	70	65	0.4

Note:

System operated 24 hours per day until October 2002 where it was adjusted to 16 hours per day (16-hours on, 8-hours off)
 Conversion to CFM = FPM*(0.08762) for 4-in pipe
 No air sparging completed in Jan and Feb 04. New air sparge pump installed on 3/2/04.

AST/UST Area**2004 SVE System Airstream Sample Results - 601/602 Scan****Essex/Hope Site Remedial Action****Jamestown, New York****URS Project No. 801419**

Effluent Constituent	Date/Sample Results (ppmV)	Date/Sample Results (ppmV)
	7/22/2004	11/12/2004
1,1 Dichloroethane	<0.01	<0.01
1,1,1 Trichloroethane	<0.005	<0.005
Trichloroethene	<0.005	<0.005
Tetrachloroethene	<0.005	<0.005
cis-1,2-Dichloroethene	<0.01	<0.01
Ethylbenzene	<0.1	<0.1
Toluene	<0.1	<0.1
M&P-Xylene	<0.2	<0.2
O-Xylene	<0.1	<0.1
Total VOCs	0	0

Effluent Constituent	Date/Sample Results (ppmV)	Date/Sample Results (ppmV)
	7/22/2004	11/12/2004
1,1 Dichloroethane	<0.01	<0.01
1,1,1 Trichloroethane	<0.005	<0.005
Trichloroethene	<0.005	<0.005
Tetrachloroethene	<0.005	<0.005
cis-1,2-Dichloroethene	<0.01	<0.01
Ethylbenzene	<0.10	<0.10
Toluene	<0.10	<0.10
M&P-Xylene	<0.2	<0.2
O-Xylene	<0.1	<0.1
Total VOCs	0	0

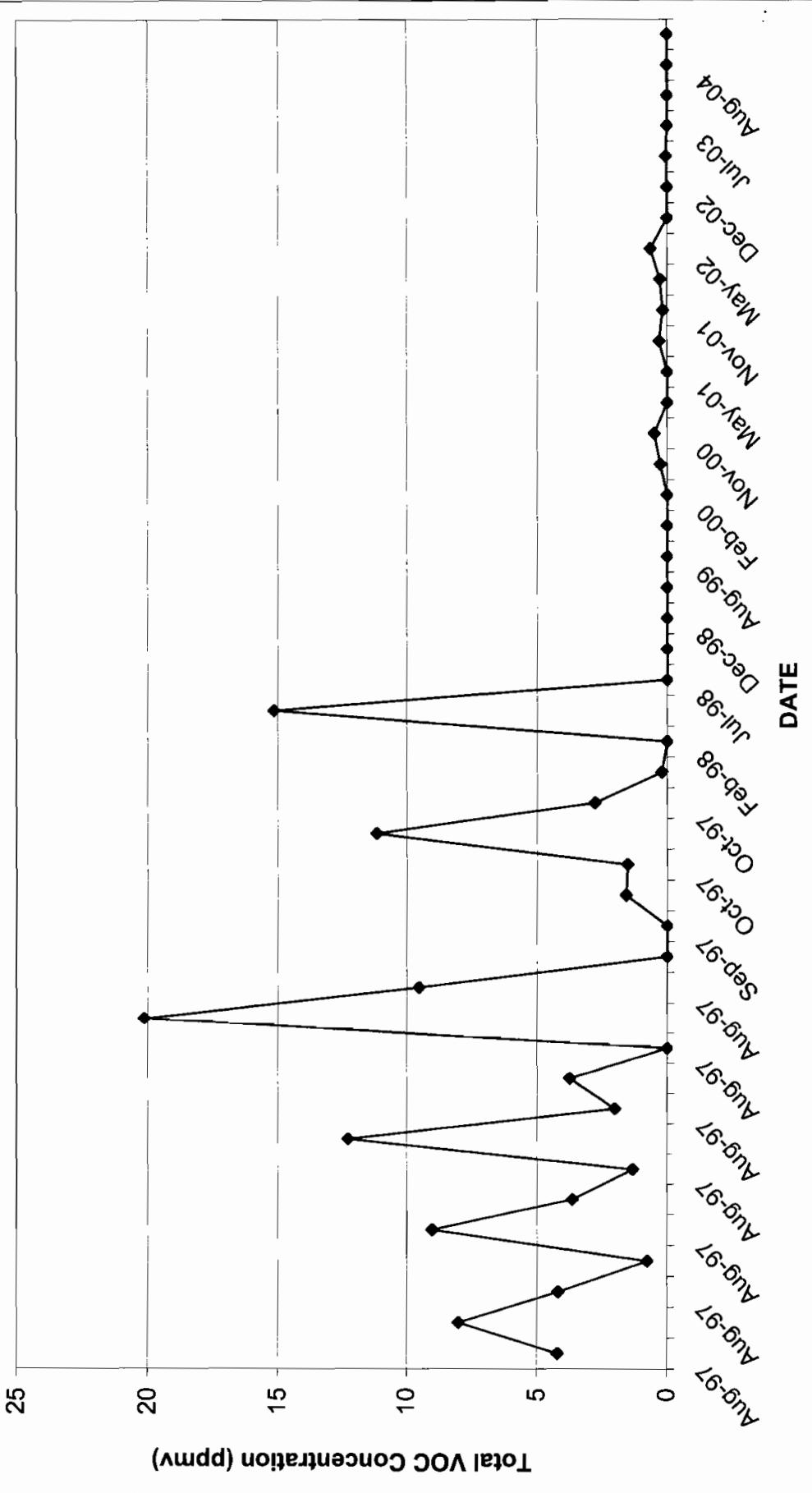
Notes:

Only detected and historically detected VOCs shown

ND - Non-Detect

Appendix D-1
AST/UST AREA
AIRSTREAM TOTAL VOC CONCENTRATIONS
1997-2004

25



AST/UST Area**2004 SVE System Discharge Rates (Influent)**

Essex/Hope Site Remedial Action
Jamestown, New York
URS Project No. 801419

	Discharge Rates (lb/MOCs / lb)
Jan - July	0.00E+00
Aug - Dec	0.00E+00
Total	0.00

Quarterly Average-Trichloroethylene

	Avg. Flow Rate (cfm)	Avg. Molar Weight (mole)	Avg. Vapor Conc. (ppmv)	Extraction Hours	Discharge Rate (lb/hr)	Estimated Pounds Discharged
Jan - July	247	131.39	0.00	3392	0.00E+00	0.00E+00
Aug - Dec	227	131.39	0.00	2217	0.00E+00	0.00E+00
Estimated Pounds Removed:						0.00

Quarterly Average- cis-1,2-Dichloroethene

	Avg. Flow Rate (cfm)	Avg. Molar Weight (mole)	Avg. Vapor Conc. (ppmv)	Extraction Hours	Discharge Rate (lb/hr)	Estimated Pounds Discharged
Jan - July	247	96.94	0.00	3392	0.00E+00	0.00E+00
Aug - Dec	227	96.94	0.00	2217	0.00E+00	0.00E+00
Estimated Pounds Removed:						0.00

Monthly Data

Month	Avg. Flow Rate (cfm)	Extraction Hours
Jan	262	496
Feb	249	448
Mar	270.5	496
Apr	236	480
May	236	496
June	223	480
July	253	496
Aug	249	496
Sept	209	480
Oct	213.5	496
Nov	218	480
Dec	244	265

Notes:

Mass removal calculations are based upon actual vapor extraction time.

$$\text{Calculation: } R = [C * ((Mw/385) * 10^6)] * [Q * (60 \text{ min}/1 \text{ hr})]$$

R = Mass Removal Rate (lb/hour)

C = Discharge Vapor Concentration (ppmv)

Mw = Molecular weight of Constituent

Q = Air Flow Rate (cfm)

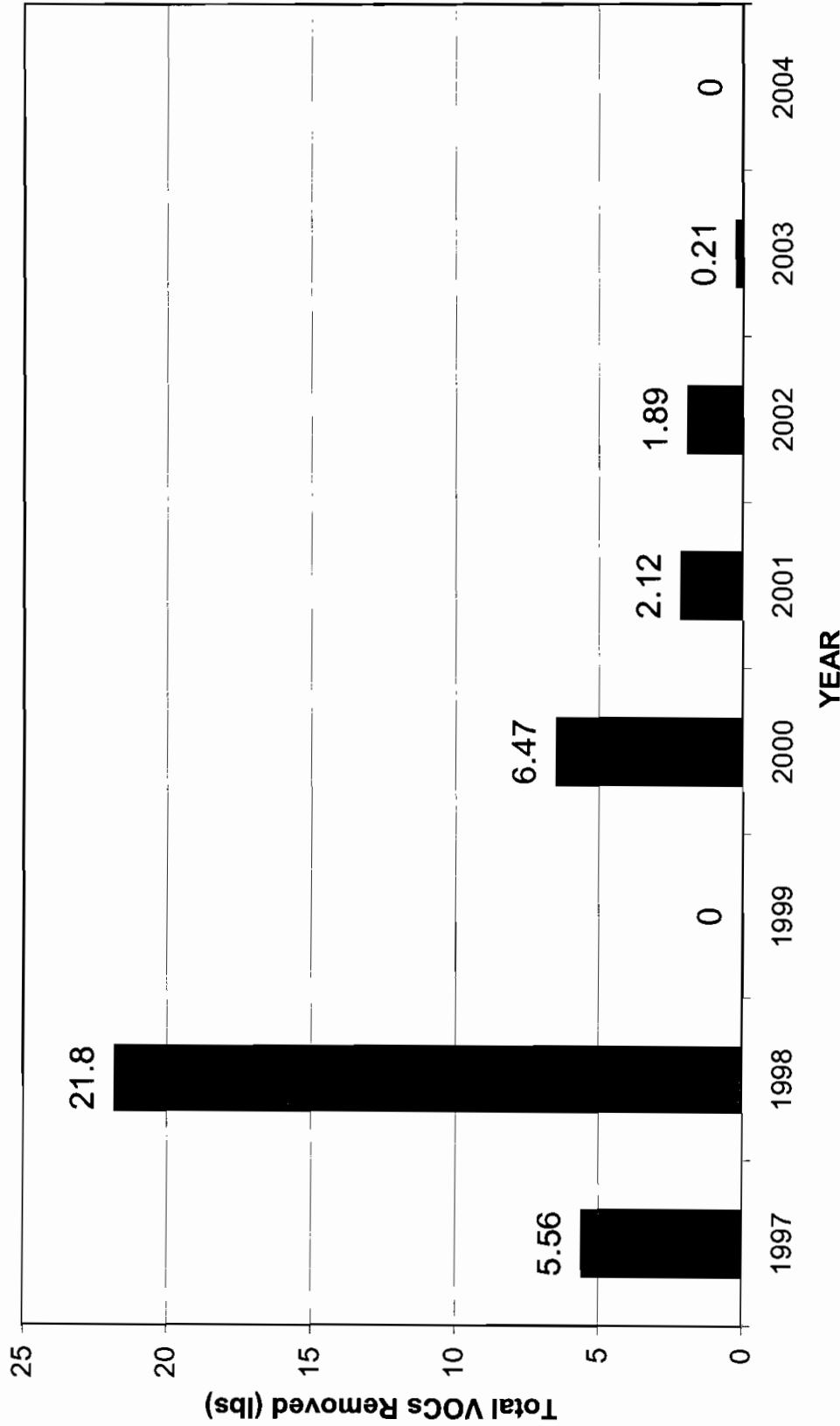
1 ppmv = $(Mw/385) * 10^6$ [lb/ft³] at 68 °F

$$\text{Calculation: } M = R * T$$

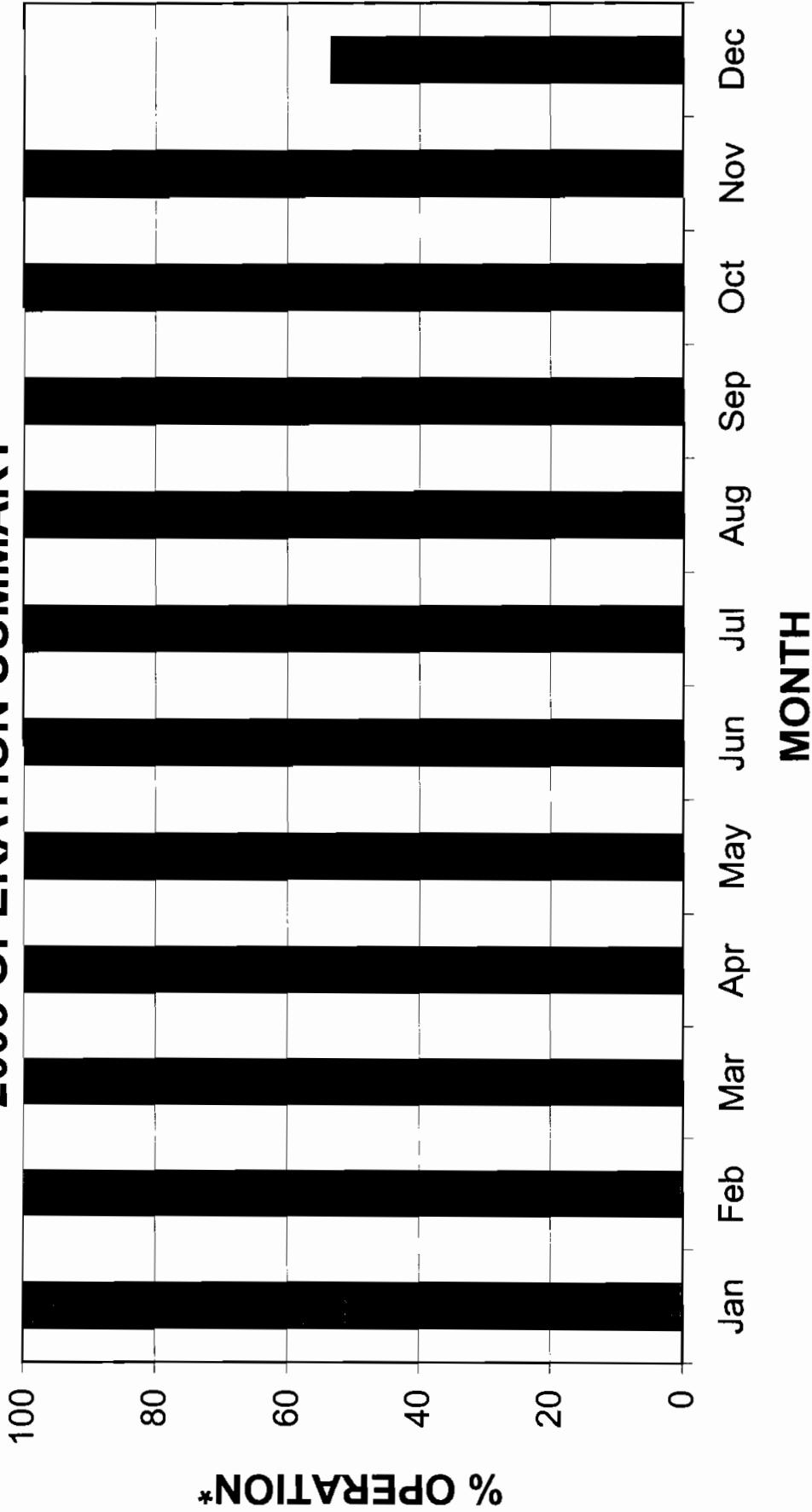
M = Mass Removed (lb)

T = Extraction Time (hours)

Appendix D-1
AST/UST AREA
TOTAL VOCs REMOVED
1997-2004



AST/UST AREA 2003 OPERATION SUMMARY



*Percentage includes scheduled system down times that allow for groundwater introduction into the area.

APPENDIX D-2**2004 AIRSTREAM LABORATORY ANALYTICAL DATA**

MICROSEEPS



Client Name: URS
Contact: Keith Dodrill
Address: 4955 Steubenville Pike
Suite 250
Pittsburgh, PA 15205

Page: Page 1 of 5
Lab Proj #: P0407457
Report Date: 08/03/04
Client Proj Name: Essex Hope
Client Proj #: 41567320.01

Laboratory Results

Total pages in data package: 10

Lab Sample # Client Sample ID

P0407457-01	NPL HEADER
P0407457-02	NPL POST CARB
P0407457-03	AST HEADER
P0407457-04	AST POST CARB

Microseeps test results meet all the requirements of the NELAC standards.

Approved By:

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

*As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email bhans@microseeps.com*

Case Narrative:



APPENDIX D-2

2004 AIRSTREAM LABORATORY ANALYTICAL DATA

Page: Page 2 of 5
 Lab Proj #: P0407457
 Report Date: 08/03/04
 Client Proj Name: Essex Hope
 Client Proj #: 41567320.01

Client Name:	URS	Lab Sample #:	P0407457-01
Contact:	Keith Dodrill		
Address:	4955 Steubenville Pike Suite 250 Pittsburgh, PA 15205		

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>		<u>Received</u>	
NPL HEADER	Vapor	22 Jul. 04 17:20		28 Jul. 04	
Analyte(s)	Result	PQL	Units	Method #	Analyst Analysis Date
RiskAnalysis					
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
Benzene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
Bromodichloromethane	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
romoform	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
bromomethane & Chloroethane	<1.0	1.0	PPMV	AM4.02	rw 7/29/04
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
Chloroform	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
Chloromethane	<1.0	1.0	PPMV	AM4.02	rw 7/29/04
cis-1,2-Dichloroethene	0.034	0.010	PPMV	AM4.02	rw 7/29/04
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
m & p-Xylene	<0.20	0.20	PPMV	AM4.02	rw 7/29/04
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	rw 7/29/04
o-Xylene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
Tetrachloroethene	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
Toluene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
Trichloroethene	0.054	0.0050	PPMV	AM4.02	rw 7/29/04
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	rw 7/29/04

Page: Page 3 of 5
 Lab Proj #: P0407457
 Report Date: 08/03/04
 Client Proj Name: Essex Hope
 Client Proj #: 41567320.01

Client Name: URS	Lab Sample #:	P0407457-02
Contact: Keith Dodrill		
Address: 4955 Steubenville Pike		
Suite 250		
Pittsburgh, PA 15205		

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>			<u>Received</u>	
NPL POST CARB	Vapor	22 Jul. 04 17:30			28 Jul. 04	
Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
Risk Analysis						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
Benzene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
Bromodichloromethane	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
romoform	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Bromomethane & Chloroethane	<1.0	1.0	PPMV	AM4.02	rw	7/29/04
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Chloroform	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Chloromethane	<1.0	1.0	PPMV	AM4.02	rw	7/29/04
cis-1,2-Dichloroethene	0.055	0.010	PPMV	AM4.02	rw	7/29/04
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
m & p-Xylene	<0.20	0.20	PPMV	AM4.02	rw	7/29/04
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	rw	7/29/04
o-Xylene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
Tetrachloroethene	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Toluene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
Trichloroethene	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	rw	7/29/04

Page: Page 4 of 5
 Lab Proj #: P0407457
 Report Date: 08/03/04
 Client Proj Name: Essex Hope
 Client Proj #: 41567320.01

Client Name: URS
 Contact: Keith Dodrill
 Address: 4955 Steubenville Pike
 Suite 250
 Pittsburgh, PA 15205

Lab Sample #: P0407457-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>			<u>Received</u>	
AST HEADER	Vapor	22 Jul. 04 17:35			28 Jul. 04	
Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
Benzene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
Bromodichloromethane	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
romoform	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Bromomethane & Chloroethane	<1.0	1.0	PPMV	AM4.02	rw	7/29/04
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Chloroform	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Chloromethane	<1.0	1.0	PPMV	AM4.02	rw	7/29/04
cis-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
m & p-Xylene	<0.20	0.20	PPMV	AM4.02	rw	7/29/04
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	rw	7/29/04
o-Xylene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
Tetrachloroethene	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Toluene	<0.10	0.10	PPMV	AM4.02	rw	7/29/04
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	7/29/04
Trichloroethene	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	rw	7/29/04
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	rw	7/29/04

Page: Page 5 of 5
 Lab Proj #: P0407457
 Report Date: 08/03/04
 Client Proj Name: Essex Hope
 Client Proj #: 41567320.01

Client Name: URS
 Contact: Keith Dodrill
 Address: 4955 Steubenville Pike
 Suite 250
 Pittsburgh, PA 15205

Lab Sample #: P0407457-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>		<u>Received</u>	
AST POST CARB	Vapor	22 Jul. 04 17:40		28 Jul. 04	
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst Analysis Date</u>
RiskAnalysis					
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
Benzene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
Bromodichloromethane	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
romoform	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
Bromomethane & Chloroethane	<1.0	1.0	PPMV	AM4.02	rw 7/29/04
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
Chloroform	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
Chloromethane	<1.0	1.0	PPMV	AM4.02	rw 7/29/04
cis-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
m & p-Xylene	<0.20	0.20	PPMV	AM4.02	rw 7/29/04
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	rw 7/29/04
o-Xylene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
Tetrachloroethene	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
Toluene	<0.10	0.10	PPMV	AM4.02	rw 7/29/04
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw 7/29/04
Trichloroethene	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	rw 7/29/04
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	rw 7/29/04

CHAIN - OF - CUSTODY RECORD

Phone: (412) 826-5245

Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238

Fax No. : (412) 826-3433

Sampler's signature:

Relinquished by :	Company : Mr. C. S. D.	Date : 1972-07-17	Time : 10:00 A.M.	Received by : Mr. G. N. S. Date : 1972-07-17	Time : 10:00 A.M.	Company : Mr. G. N. S.	Date : 1972-07-17	Time : 10:00 A.M.
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :	
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :	



Client Name: URS
Contact: Keith Dodrill
Address: Foster Plaza 4
501 Holiday Drive
Pittsburgh, PA 15220

Page: Page 1 of 5
Lab Proj #: P0411365
Report Date: 11/16/04
Client Proj Name: Essex Hope
Client Proj #: 41567320.01

Laboratory Results

Total pages in data package: 6

Lab Sample # Client Sample ID

P0411365-01	NPL HEADER
P0411365-02	NPL POST CARB
P0411365-03	AST/UST HEADER
P0411365-04	AST/UST POST CARB

Microseeps test results meet all the requirements of the NEAC standards.

Approved By:

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results

*As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email bhans@microseeps.com*

Case Narrative:

Page: Page 2 of 5
 Lab Proj #: P0411365
 Report Date: 11/16/04
 Client Proj Name: Essex Hope
 Client Proj #: 41567320.01

Client Name: URS
 Contact: Keith Dodrill
 Address: Foster Plaza 4
 501 Holiday Drive
 Pittsburgh, PA 15220

Lab Sample #: P0411365-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>			<u>Received</u>	
NPL HEADER	Vapor	12 Nov. 04 12:00			15 Nov. 04	
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
RiskAnalysis						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Benzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Bromodichloromethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Bromoform	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Bromomethane/Chloroethane	<1.0	1.0	PPMV	AM4.02	rw	11/16/04
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chloroform	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chloromethane	<1.0	1.0	PPMV	AM4.02	rw	11/16/04
cis-1,2-Dichloroethene	0.036	0.010	PPMV	AM4.02	rw	11/16/04
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
m & p-Xylene	<0.20	0.20	PPMV	AM4.02	rw	11/16/04
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	rw	11/16/04
o-Xylene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Tetrachloroethene	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Toluene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
Trichloroethene	0.026	0.0050	PPMV	AM4.02	rw	11/16/04
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	rw	11/16/04

Page: Page 3 of 5
 Lab Proj #: P0411365
 Report Date: 11/16/04
 Client Proj Name: Essex Hope
 Client Proj #: 41567320.01

Client Name:	URS	Lab Sample #:	P0411365-02
Contact:	Keith Dodrill		
Address:	Foster Plaza 4 501 Holiday Drive Pittsburgh, PA 15220		

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>			<u>Received</u>	
NPL POST CARB	Vapor	12 Nov. 04 12:05			15 Nov. 04	
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
RiskAnalysis						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Benzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Bromodichloromethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Bromoform	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chloromethane/Chloroethane	<1.0	1.0	PPMV	AM4.02	rw	11/16/04
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chloroform	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chloromethane	<1.0	1.0	PPMV	AM4.02	rw	11/16/04
cis-1,2-Dichloroethene	0.031	0.010	PPMV	AM4.02	rw	11/16/04
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
m & p-Xylene	<0.20	0.20	PPMV	AM4.02	rw	11/16/04
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	rw	11/16/04
o-Xylene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Tetrachloroethene	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Toluene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
Trichloroethene	0.012	0.0050	PPMV	AM4.02	rw	11/16/04
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	rw	11/16/04

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 Lab Proj #: P0411365
 Report Date: 11/16/04
 Client Proj Name: Essex Hope
 Client Proj #: 41567320.01

Client Name: URS
 Contact: Keith Dodrill
 Address: Foster Plaza 4
 501 Holiday Drive
 Pittsburgh, PA 15220

Lab Sample #: P0411365-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>			<u>Received</u>	
AST/UST HEADER	Vapor	12 Nov. 04 12:10			15 Nov. 04	
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
RiskAnalysis						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Benzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Bromodichloromethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Bromoform	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chloromethane/Chloroethane	<1.0	1.0	PPMV	AM4.02	rw	11/16/04
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chloroform	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chloromethane	<1.0	1.0	PPMV	AM4.02	rw	11/16/04
cis-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
m & p-Xylene	<0.20	0.20	PPMV	AM4.02	rw	11/16/04
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	rw	11/16/04
o-Xylene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Tetrachloroethene	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Toluene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
Trichloroethene	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	rw	11/16/04

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 Lab Proj #: P0411365
 Report Date: 11/16/04
 Client Proj Name: Essex Hope
 Client Proj #: 41567320.01

Client Name: URS
 Contact: Keith Dodrill
 Address: Foster Plaza 4
 501 Holiday Drive
 Pittsburgh, PA 15220

Lab Sample #: P0411365-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>			<u>Received</u>	
AST/UST POST CARB	Vapor	12 Nov. 04 12:15			15 Nov. 04	
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
Risk Analysis						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Benzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Bromodichloromethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Bromoform	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chloromethane/Chloroethane	<1.0	1.0	PPMV	AM4.02	rw	11/16/04
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chloroform	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Chloromethane	<1.0	1.0	PPMV	AM4.02	rw	11/16/04
cis-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
m & p-Xylene	<0.20	0.20	PPMV	AM4.02	rw	11/16/04
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	rw	11/16/04
o-Xylene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
Tetrachloroethene	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Toluene	<0.10	0.10	PPMV	AM4.02	rw	11/16/04
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	11/16/04
Trichloroethene	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/16/04
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	rw	11/16/04

