



**2005 Annual
Performance
Monitoring Report
Essex/Hope Site
Jamestown, New York**

August 2006 - Final

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

URS Project No. 41567715

2005 ANNUAL PERFORMANCE MONITORING REPORT

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Jamestown, New York**

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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 2005. 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 site 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 have been submitted to the NYSDEC in the UST Area and Groundwater Vinyl Chloride Investigations Report (URS, June 2004).
- Supplemental site investigations were performed from November, 2005 through June, 2006 for the UST Area and the offsite groundwater zones. The objectives of the investigations were as follows:
 - *Determine the extent of the residual VOC contamination in the UST Area shallow soils and groundwater.* The most recent investigations (2003) found VOCs in shallow groundwater approximately 30 feet south of the former USTs. Additional investigations were necessary to further delineate the extent of the VOCs to the south and east, and offsite, if necessary.
 - *Determine the extent of the VOC contamination in shallow groundwater in the vicinity of Monitoring Well 14S.* Performance monitoring has indicated that shallow groundwater VOCs have persisted at elevated levels (> 1ppm) in monitoring well 14S, north of the NPL Area and offsite, north of Hopkins Avenue. Previous investigations (June, 2004 report) indicated that MW-14S had a TCE level of 2700 ppb, which was the highest TCE detected in the shallow water-bearing zone. This TCE level was one to two orders of magnitude higher than the TCE levels in shallow zone recovery wells, RW-1S and RW-2S, respectively. Additional investigations were needed in the area around MW-14S to determine the extent of the elevated TCE, and the potential for offsite sources of VOCs.
 - *Determine the extent of the VOCs in deep groundwater in the offsite area northeast east of CPM Plant No. 5.* The latest offsite groundwater investigations (2003) found VOCs in deep groundwater to the northeast (MW-22D) of the site, approximately 50 ft beyond the property boundary. This area is in the downgradient groundwater direction (under non-pumping conditions), and the VOCs are expected to be residual contamination from migration of the historic plume. Additional investigations were necessary to determine the extent of the offsite deep groundwater VOC plume.

The investigations included discrete sampling of the shallow and deep groundwater zones using the direct-push drilling equipment and residential vapor sampling by shallow probes installed near occupied buildings above the shallow VOC plume locations. The results of these investigations are summarized in a report to be submitted to NYDEC on or about August, 2006.

1.3 Major System Modifications

Major 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.
- Future system modifications are anticipated as a result of the findings of the 2005-2006 UST Area and Offsite Groundwater Investigations. These modifications are expected to include one or more additional recovery wells in the deep groundwater zone VOC plume offsite to the north. VOCs in the UST Area shallow groundwater and other offsite shallow and deep groundwater zones are currently being evaluated for *insitu* treatment technologies.

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 2005 calendar year consisted of monthly groundwater pre-treatment system influent and effluent analysis, semi-annual recovery well groundwater analysis, annual SVE system air stream analysis and annual groundwater sampling of the monitoring wells selected as performance monitoring points. No soil sampling was completed during 2005.

2.0 Groundwater Flow Evaluation

This section presents a summary of the 2005 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 and are provided in Appendix A. Groundwater contour maps representative of pumping conditions during the reporting period are provided as Figures 3 through 8 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 offline on March 27, 2005 due to high water level within the equalization tank. The system discharge meter screen was cleaned of carbon particles and the tank was pumped down.
- Recovery Wells were offline on April 10, 2005 and April 24, 2005, both due to the high level alarm. The carbon vessel solids were broken apart and system filters were changed.
- On May 4, 2005, the treatment system and all wells were offline due to clogged filters which were immediately replaced. The system/wells remained offline until late day due to a transformer replacement on Hopkins Avenue by the Jamestown BPU.
- The recovery wells were offline on May 17, 2005 for pump cleaning. Recovery Well RW-3S was also re-developed via hydraulic jetting.
- The treatment system and all wells were offline between July 8 and 10, 2005 due to a power outage.
- Recovery Well RW-2D experienced a shutdown on July 14, 2005 due electrical fault in the VFD.
- On July 20, 2005, all recovery wells were shut down for cleaning of meters. Recovery well RW-2S was offline on July 21, 2005 to allow replacement of a cracked PVC adapter.
- The treatment system and all wells were offline between November 10 and 11, 2005 for change out of the treatment system carbon.
- Recovery Well RW-2D experienced a shutdown on December 1, 2005 due electrical fault in the VFD.

2.2 Annual Groundwater Extraction

Groundwater pumping volumes are provided in Table 2. In 2005, 1.55 million gallons of groundwater were extracted and treated by the recovery system. Approximately 1,056,143 gallons of groundwater were extracted from the LFSWBZ and approximately 496,823 gallons of groundwater were extracted from the shallow water-bearing zone. Groundwater extraction from each treatment area is discussed below.

Recovery wells RW-1S and RW-2S extract groundwater from the shallow zone in the NPL Area. A combined total of approximately 477,472 gallons of groundwater were extracted from this zone during 2005. 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 1st and 4th Quarters of 2005 at 168,985 and 137,960 gallons extracted respectively. The average steady state groundwater extraction from the NPL Area shallow zone by quarter is as follows:

- 1st Quarter: 1.29 gpm
- 2nd Quarter: 0.90 gpm
- 3rd Quarter: 0.45 gpm
- 4th Quarter: 1.06 gpm

In the AST/UST area, approximately 19,351 gallons of groundwater was extracted from Recovery Well RW-3S during 2005. The highest groundwater recovery occurred during the 1st and 4th Quarters at 8,786 and 3,817 gallons respectively. The average steady state groundwater extraction from the AST/UST Area shallow zone by quarter is as follows:

- 1st Quarter: 0.068 gpm
- 2nd Quarter: 0.028 gpm
- 3rd Quarter: 0.024 gpm
- 4th Quarter: 0.029 gpm

A total of approximately 1,056,143 gallons of groundwater was extracted from the deep zone from RW-2D during 2005. Groundwater yield was lowest during the 2nd Quarter at 249,101 gallons removed. Groundwater recovery was highest at 280,662 gallons in the 4th Quarter. The average steady state groundwater extraction from the NPL Area deep zone by quarter is as follows:

- 1st Quarter: 2.12 gpm
- 2nd Quarter: 1.92 gpm
- 3rd Quarter: 1.94 gpm
- 4th Quarter: 2.17 gpm

2.3 Groundwater Flow Conditions

Groundwater flow conditions in the shallow and deep water-bearing zones at the site for the 2005 period are presented in this section. Groundwater contour maps representative of pumping conditions within the shallow and deep zones are provided as Figures 3 through 8. Pumping conditions in each treatment area of the site are described below.

The natural (non-pumping) 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 (Figures 3, 5, and 7) represent groundwater flow conditions during pumping in the shallow zone for 2005.

Groundwater flow conditions were uniform within the NPL Area during 2005 under pumping conditions. A cone of depression was maintained throughout the NPL area and is depicted on Figures 3, 5, and 7. Generally, the cone of depression was approximately 1/2 foot lower in elevation with a slightly greater aerial influence during February 2006 as compared to May 2005.

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.

No groundwater was directly extracted from the UST Area during 2005. 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 south.

Groundwater pumping from the LFSWBZ occurred only from RW-2D in the NPL Area during 2005. The natural groundwater flow direction of the deep zone under non-pumping conditions is toward the northeast across the site. Groundwater contour maps (Figures 4, 6, and 8) represent groundwater flow conditions during pumping in the deep zone for 2005. The potentiometric contour maps for the groundwater monitoring events of 2005 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 2005 represented the eighth full year of operation of the remedial systems. Groundwater sampling for 2005 consisted of the following:

- Semi-Annual Recovery Well Sampling for VOCs
- Annual Sampling of the Performance Monitoring Plan (PMP) well network for VOCs (conducted in February 2006)
- Monthly influent and effluent sampling of the wastewater pre-treatment system in support of POTW permit requirements.

Tables 3 through 10 summarize the recovery well analytical data. Table 3 provides a summary of the semi-annual recovery well data for each quarter. The performance monitoring well data is provided in Tables 11 through 25. Tables 26 through 28 represent the wastewater influent, treatment and effluent sample data for 2005. Laboratory Certificates of Analysis are included in Appendix B. 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 (NPL) Area

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

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. Tables 4 and 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 2005 included: cis-1,2-DCE (670 µg/L), Trichloroethene (TCE) (2700 µg/L), and vinyl chloride (15 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. Detections include cis-1,2-DCE (53 µg/L), and Trichloroethene (TCE) (10 µg/L). No VOCs have been detected in this well during 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. Cis-1,2-DCE was the only VOC detected in this well. At 9 µg/L, it is consistent with previous sampling events.

Monitoring well MW-14S is located on the Hope property to the north of the NPL Area. Benzene, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, TCE, and Vinyl chloride were detected in this well during the February 2006 sampling event. All constituents decreased or remained the

same from previous events. 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 5.9 µg/L.

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 Monitoring Locations VP-6D, PZ-7D, and PZ-11D were added to the PMP annual monitoring schedule starting in 2005, 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, and 23.

Maximum VOC concentrations detected in RW-1D (Table 9) during 2005 included cis-1,2-DCE (48 µg/L), and vinyl chloride (5.6 µg/L). All constituent concentrations are below 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.

VOC concentrations detected in RW-2D (Table 10) during 2005 included benzene, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, TCE, and vinyl chloride. 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 February 2006 sampling event included benzene, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, TCE, and vinyl chloride 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 37 µg/L. Conversely, Vinyl chloride has increased from non-detect to 1,500 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. Note that a duplicate sample was taken from MW-7D.

Monitoring Well MW-8 is located within the NPL Area to the west of RW-2D. VOCs detected in this well for the February 2006 event included cis-1,2-DCE (62 µg/L), and vinyl

chloride (18 µg/L). Table 16 details the historical groundwater concentrations for monitoring well MW-8. All 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 were detected in this well during the February 2006 sampling event. 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 included benzene, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, TCE, and vinyl chloride. All constituents are consistent with prior sampling results. The historical groundwater sampling results for monitoring well MW-15D 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 420 µg/L. This concentration continues to decrease when compared to historic events.

Monitoring well MW-21D, which was installed in 2003 is located along Hopkins Avenue northeast of the NPL Area. VOCs detected in this well for February 2006 included acetone, benzene, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, toluene, TCE, and vinyl chloride. TCE, and cis-1,2-DCE showed concentrations double in value in February 2006 as detected in 2004. The other compounds detected were comparable in concentrations to the 2004 sampling event. The groundwater sampling results for monitoring well MW-21D is provided as Table 23.

Monitoring well MW-22D, also installed in 2003, is located on the north side of Hopkins Avenue north of the NPL Area. VOCs detected in this well for February 2006 included benzene, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, TCE, and vinyl chloride. The groundwater sampling results for monitoring well MW-22D is provided as Table 24.

Additionally from this area, Monitoring Locations VP-6D and PZ-7D, were included into the PMP annual monitoring for 2005 (see Table 25). VP-6D, located on the eastern property line, illustrated a low level detection of isopropylbenzene. VOCs concentrations detected in PZ-7D, also along the eastern property line, included cis-1,2-DCE, TCE, and vinyl chloride.

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 Tables 6 and 12.

Maximum VOC concentrations detected in RW-3S (Table 6) during February 2006 included benzene, isopropylbenzene, ethylbenzene, and total xylenes. All constituents showed variable concentrations throughout 2005, similar to those exhibited in 2004. VOCs detected for the 2005 annual monitoring at MW-2 (Table 12) included isopropylbenzene (11 µg/L).

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. From 2003, MW-20 was the only well to be sampled annually from this area. However, at the direction of the NYSDEC, PZ-11D was added to the PMP monitoring schedule as of 2005. Historical laboratory results for these wells are summarized on Tables 7, 8, 22, and 25. 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, isopropylbenzene, ethylbenzene, toluene, and xylenes. All VOC concentrations showed a decrease when compared with recent sampling events. There were no VOCs detected in PZ-11D.

3.4 Groundwater Treatment System

The site groundwater 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 Publicly Owned Treatment Works (POTW) for final treatment.

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 2005 is summarized on Tables 26 through 28. 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 benzene (2.5 µg/L to 9.9 µg/L), 1,1-DCE (5 µg/L to 28 µg/L), cis-1,2-DCE (370 µg/L to 5,300 µg/L), trans-1,2-DCE (7.2 µg/L to 41 µg/L), TCE (14 µg/L to 1,200 µg/L), vinyl chloride (62 µg/L to 890 µg/L), and xylenes (<5.0 to 6.3 µg/L).

On November 11, 2005, 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 offsite for regeneration. This was done in response to carbon breakthrough that resulted in effluent VOCs concentrations in excess of 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 2005 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 2005 are presented in Appendix C.

Air stream analytical samples were collected to monitor system performance in each treatment area. The air samples are analyzed for 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 May 2005 showed detections of TCE and cis-1,2-DCE. An estimated 0.99 lbs of VOCs were removed from the unsaturated zone by the SVE system for the operation year of 2005, for a total of approximately 17.4 lbs since 1997.

4.2 AST/UST Area

Air stream samples in the AST/UST Area showed detections of TCE in the AST/UST area during 2005. Since 1997, a total of approximately 38.1-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 2005 is summarized as follows:

5.1 Groundwater Extraction

Groundwater extraction volume from the shallow zone was approximately equal during 2004 (496,823 gallons) as compared to 2005 (486,133 gallons). In the NPL Area, production from RW-1S was less than the previous year, but RW-2S increased. 477,472 gallons of groundwater was removed from the NPL Area in 2005 as compared to 456,749 gallons in 2004. Overall for the year, hydraulic control in the NPL Area was maintained similar to that experienced in 2004. Groundwater recovery in the AST/UST Area from RW-3S decreased by approximately 10,000 gallons in 2005 (19,351 gallons) as compared to 2004 (29,384 gallons).

Groundwater recovery from the deep zone was approximately 5% greater than the previous year, with a total of 1,056,143 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 the 3rd quarter 2005 of hydroxide precipitates associated with the PRB pilot test zero-valent iron injections in the area of RW-2D.

5.2 Groundwater Quality

Overall, VOC concentrations remained within the historical ranges in the NPL Area shallow zone in 2005. In onsite wells (RW-1S, RW-2S and MW-7) groundwater constituent concentrations remained relatively the same 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.

Principal changes in VOC concentrations in the NPL Area deep zone onsite wells (RW-1D, RW-2D, MW-7D, and MW-8) during 2005 are as follows:

- RW-1D – cis-1,2-DCE decreased by an order of magnitude; TCE and vinyl chloride have also decreased since the 2004 sampling events.
- RW-2D – cis-1,2-DCE TCE exhibited an increasing trend since 2003; TCE and vinyl chloride have remained at similar levels to 2004.
- MW-7D –All concentrations have remained consistent with previous sampling events.
- MW-8 – All concentrations have remained consistent with previous sampling events.

Constituent concentration changes observed during 2005 in the offsite wells (MW-14D, MW-15D, MW-19D, MW-21D and MW-22D) include:

- MW-21D – TCE, and cis-1,2-DCE have increased by approximately 50-60% for the 2005 sampling as compared to the 2004 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 VOC plume was completed in June, 2006 to delineate the vertical and horizontal extent.

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 however, RW-3S showed slight increases in February 2006.

5.3 Soil Vapor Extraction/Air Sparging Systems

In the 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. To date, approximately 17.4-lbs of VOCs have been recovered from the vadose zone in this area.

Both the SVE and air sparging systems were operated in the AST/UST Area during 2005. The systems experienced an extended period of shutdown during the latter part of the year due to inclement weather. VOC recovery has decreased since peak recoveries in 1998 as the area's soils and groundwater has been remediated to levels approaching cleanup criteria. VOC recovery has tailed off from 21.8-lbs in 1998. To date, approximately 38.1-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

**2005 Groundwater Extraction Summary
Essex/Hope Site
Jamestown, NY**

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	3,141	165,844	8,786	0	275,302
2nd Quarter	7,291	105,404	3,613	0	249,101
3rd Quarter	8,902	48,929	3,135	0	251,079
4th Quarter	16,893	121,067	3,817	0	280,662
Total	36,228	441,245	19,351	0	1,056,143

Period	Site Area		
	NPLS Shallow Area Gallons Pumped	AST Area Gallons Pumped	NPLS Lower Fine Sand Water Bearing Zone Gallons Pumped
1st Quarter	168,985	8,786	275,302
2nd Quarter	112,695	3,613	249,101
3rd Quarter	57,832	3,135	251,079
4th Quarter	137,961	3,817	280,662
Total	477,472	19,351	1,056,143

Period	Total Estimated Gallons Pumped - All Areas
1st Quarter	453,073
2nd Quarter	365,408
3rd Quarter	312,045
4th Quarter	422,439
Total	1,552,966

Table 3

2005 Semi-Annual Recovery Well Analytical Results (µg/L)
Essex/Hope Site
Jamestown, NY

1st Quarter Sampling - March 30, 2005

Volatile Organic Compounds	Site GW RAOs	RW-1S	RW-1D	RW-2S	RW-2D	RW-3S
Acetone		ND	ND	ND	ND	ND
Benzene		ND	ND	ND	10	5.9
2-Butanone		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	9.5	ND
cis-1,2-Dichloroethene		270	630	45	4,200	ND
trans-1,2-Dichloroethene	5	ND	5.6	ND	27	ND
Ethylbenzene	5	ND	ND	ND	ND	15
4-Methyl-2-pentanone		ND	ND	ND	ND	ND
Methylene Chloride		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND
Trichloroethene	5	2,100	52	400	ND	ND
Vinyl Chloride	5	5.9	ND	ND	2,000	ND
Xylenes (total)	5	ND	ND	ND	ND	5.7

3rd Quarter Sampling - September 9, 2005

Volatile Organic Compounds	Site GW RAOs	RW-1S	RW-1D	RW-2S	RW-2D	RW-3S
Acetone		ND	ND	ND	ND	ND
Benzene		ND	ND	ND	10	12
2-Butanone		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)		ND	ND	ND	ND	9.5
1,1-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	31	ND
cis-1,2-Dichloroethene		670	48	22	7,100	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	37	ND
Ethylbenzene	5	ND	ND	ND	ND	39
4-Methyl-2-pentanone		ND	ND	ND	ND	ND
Methylene Chloride		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND
Trichloroethene	5	2,700	ND	12	1,100	ND
Vinyl Chloride	5	15	5.6	ND	1,200	ND
Xylenes (total)	5	ND	ND	ND	ND	167

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives

µg/l = Micrograms per liter

ND = Not Detected/Below minimum laboratory reporting limit

Table 4

Recovery Well RW-1S - Analytical Results

Volatile Organic Compounds (µg/L)

Essex/Hope Site

Jamestown, NY

Date	Acetone	Benzene	2-Butanone	Cumene	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	TCE	Toluene	Vinyl Chloride	Xylenes (total)
Aug-95**	10	NA	NA	NA	NA	NA	1,700	NA	ND	3,500	NA	240	4
Jul-97*	ND	ND	120	NA	NA	NA	160	ND	ND	460	ND	ND	ND
Oct-97	ND	ND	ND	ND	NA	NA	ND	ND	11	ND	ND	ND	ND
Dec-97	ND	ND	ND	ND	NA	NA	ND	ND	ND	1,900 D	ND	32	ND
Mar-98*	ND	ND	ND	ND	NA	NA	ND	ND	ND	12,000	ND	110	ND
Jun-98*	ND	ND	ND	ND	NA	NA	ND	ND	18	910	ND	ND	ND
Sept-98*	ND	ND	ND	ND	NA	NA	ND	ND	10 J	570	ND	11 J	ND
Nov-98*	ND	ND	ND	ND	NA	NA	9	ND	ND	1,300	ND	20	ND
Feb-99	ND	ND	ND	ND	NA	NA	2	ND	ND	180 D	ND	6	ND
May-99	ND	ND	ND	ND	NA	NA	2	ND	¹⁸	590	ND	3	ND
Aug-99	9	ND	ND	ND	NA	NA	ND	ND	2	41	ND	1	2
Nov-99	ND	ND	ND	ND	NA	NA	ND	ND	²⁹	37	ND	ND	5
Feb-00	ND	ND	ND	ND	NA	NA	ND	ND	ND	41	ND	ND	ND
Apr-00	ND	ND	ND	ND	NA	NA	ND	ND	⁴⁸	24	ND	ND	ND
Aug-00	^{15 8}	ND	9	14	NA	NA	77	9	8	150	4	470 D	78
Nov-00	ND	ND	ND	6.1	2.5	NA	7.2	2.52	^{6.018}	120	1.34	320 D	22
Mar-01	ND	ND	ND	ND	ND	44	ND	ND	ND	100	ND	28	ND
Jul-02-01	ND	ND	ND	ND	ND	530	ND	ND	ND	1,500	ND	150	ND
Sept-01	ND	ND	ND	ND	ND	1,200	11	ND	ND	3,300	ND	160	ND
Jan-06-02	50	ND	ND	ND	5.4	780	ND	ND	ND	1,800	ND	180	ND
Mar-02	ND	ND	ND	ND	5.4	760	12	ND	ND	2,300	ND	87	ND
Jul-05-02	14	ND	ND	ND	ND	59	ND	77	ND	360	38	ND	480
Sept-02	ND	ND	ND	ND	8.4	1,100	5.2	ND	ND	2,400	ND	26	ND
Dec-02	ND	ND	ND	ND	ND	66	ND	ND	ND	210	ND	12	ND
Feb-03	ND	ND	ND	ND	9.5	1,000	7.0	ND	ND	4,000	ND	120	ND
May-03	ND	ND	ND	ND	ND	190	ND	ND	ND	1,400	ND	26	ND
Aug-03	ND	ND	ND	ND	7.8	970	8.1	ND	ND	3,900	ND	41	ND
Dec-03	ND	ND	ND	ND	ND	1,900	ND	ND	ND	280	ND	9.3	ND
May-04	ND	ND	ND	ND	11	740	ND	ND	ND	4,800	ND	38	ND
Dec-04	ND	ND	ND	ND	8.7	1,800	6.0	ND	ND	4,900	ND	25	ND
Mar-05	ND	ND	ND	ND	ND	270	ND	ND	ND	2,100	ND	5.9	ND
Sept-05	ND	ND	ND	ND	ND	670	ND	ND	ND	2,700	ND	15	ND

Notes:

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 hour and 29 hours samples.

J = Estimated concentration

NA = Not analyzed

ND = Not Detected/Below minimum reporting limit

µg/L = Micrograms per liter

DCE = Dichloroethene

TCE = Trichloroethene

Table 5
Recovery Well RW-2S - Analytical Results
Volatile Organic Compounds (µg/L)
Essex/Hope Site
Jamestown, NY

Date	Acetone	Benzene	2-Butanone	Cumene	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	PCE	Toluene	1,1,2-TCA	TCE	Vinyl Chloride	Xylenes (total)
Aug-95**	ND	NA	NA	NA	NA	NA	2,200/2,600	NA	ND	NA	NA	NA	7,700/10,000	100/81	ND
Jul-97*	ND	ND	ND	NA	NA	NA	130	ND	ND	NA	ND	NA	410 D	ND	ND
Oct-97	ND	ND	ND	ND	NA	NA	ND	ND	880	NA	ND	NA	3,700	ND	ND
Dec-97	ND	ND	ND	ND	NA	NA	ND	ND	ND	NA	ND	NA	750 D	ND	ND
Mar-98*	ND	ND	ND	ND	NA	NA	ND	ND	30	NA	ND	NA	380	ND	ND
Jun-98*	ND	ND	ND	ND	NA	NA	ND	ND	ND	NA	ND	NA	120	ND	ND
Sept-98*	ND	ND	ND	ND	NA	NA	17	ND	2 J	NA	ND	NA	970 E	ND	ND
Nov-98*	ND	ND	ND	ND	NA	NA	ND	ND	ND	NA	ND	NA	1,100	6	ND
Feb-99	ND	ND	ND	ND	NA	NA	ND	ND	ND	NA	ND	NA	1,900 D	4	ND
May-99	ND	ND	ND	ND	NA	NA	ND	ND	36 ^B	NA	ND	NA	2,700	ND	ND
Aug-99	ND	ND	ND	ND	NA	NA	ND	3	ND	NA	ND	NA	1,500 D	2	20
Nov-99	ND	ND	ND	ND	NA	NA	ND	ND	5 ^B	NA	ND	NA	17	ND	ND
Feb-00	ND	ND	ND	ND	NA	NA	ND	ND	ND	NA	ND	NA	46	ND	ND
Apr-00	ND	ND	ND	ND	NA	NA	ND	ND	4 ^B	NA	ND	NA	490 D	ND	ND
Aug-00	65 ^B	ND	21	2	NA	NA	92	2	48 ^B	NA	ND	NA	43	180	17
Nov-00	ND	ND	ND	1.54	32	NA	56	1.34	4.23 ^B	2.93	2.01	1.05	6,400 D	470 D	13
Mar-01	ND	ND	ND	ND	ND	620	6.7	ND	ND	ND	ND	ND	1,500	120	ND
Jul-02-01	ND	ND	ND	ND	ND	400	ND	ND	ND	ND	ND	ND	2,200	38	ND
Sept-01	ND	ND	ND	ND	ND	500	ND	ND	ND	ND	ND	ND	2,900	ND	ND
Jan-06-02	ND	ND	ND	ND	ND	110	ND	ND	ND	ND	ND	ND	22	15	ND
Mar-02	ND	ND	ND	ND	ND	99	ND	ND	ND	ND	ND	ND	7.7	5.6	ND
Jul-05-02	ND	ND	ND	ND	ND	6.6	ND	ND	ND	ND	ND	ND	200	ND	6.5
Sept-02	ND	ND	ND	ND	ND	210	ND	ND	ND	ND	ND	ND	630	7.4	ND
Dec-02	ND	ND	ND	ND	ND	8.9	ND	ND	ND	ND	ND	ND	7.2	ND	ND
Feb-03	ND	ND	ND	ND	ND	120	ND	ND	ND	ND	ND	ND	340	6.4	ND
May-03	ND	ND	ND	ND	ND	32	ND	ND	ND	ND	ND	ND	69	ND	ND
Aug-03	ND	ND	ND	ND	ND	140	ND	ND	ND	ND	ND	ND	390	2.8	ND
Dec-03	12 ^B	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	15	ND	ND
May-04	ND	ND	ND	ND	ND	88	ND	ND	ND	ND	ND	NA	450	4.7	ND
Dec-04	ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	NA	42	ND	ND
Mar-05	ND	ND	ND	ND	ND	45	ND	ND	ND	ND	ND	ND	400	ND	ND
Sept-05	ND	ND	ND	ND	ND	22	ND	ND	ND	ND	ND	ND	12	ND	ND

Notes:
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.
** = Sample results reported represent the highest values obtained from the 5.5 hour and 29 hours samples.
J = Estimated concentration
NA = Not analyzed
ND = Not Detected/Below minimum reporting limit
µg/L = Micrograms per liter

DCE = Dichloroethene
TCE = Trichloroethene
TCA = Trichloroethane
PCE = Tetrachloroethene

Table 6
Recovery Well RW-3S - Analytical Results
Volatile Organic Compounds (µg/L)
Essex/Hope Site
Jamestown, NY

Date	Acetone	Benzene	2-Butanone	Cumene	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Toluene	TCE	Vinyl Chloride	Xylenes (total)
Jul-97*	ND	ND	ND	NA	ND	NA	ND	1,800	ND	7,700	ND	ND	22,000
Oct-97	ND	ND	ND	ND	ND	NA	ND	740	ND	4,800	ND	ND	11,000
Dec-97	14	21	ND	160	ND	NA	ND	1,100 D	ND	3,700 D	ND	11	13,000 D
Mar-98*	ND	ND	ND	ND	ND	NA	ND	940	360	1,700	ND	ND	13,000
Jun-98*	ND	15	ND	71	ND	NA	ND	510	ND	430	ND	ND	5,100
Sept-98*	ND	16 J	ND	110	ND	NA	ND	600	ND	180	ND	ND	4,200 E
Nov-98*	ND	9	ND	24	ND	NA	ND	780	ND	ND	ND	ND	20,000
Feb-99	ND	17	ND	83	2	NA	ND	490 D	ND	83	87 D	11	3,100 D
May-99	15	ND	ND	3	ND	NA	ND	12	12 ^B	3	ND	ND	370
Aug-99	ND	7	ND	34	ND	NA	ND	140	ND	15	ND	ND	700 D
Nov-99	ND	11	ND	39	ND	NA	ND	190	2 ^B	8	2	ND	640
Feb-00	10	ND	ND	13	ND	NA	ND	81	ND	6	ND	ND	370 D
Apr-00	18 ^B	12	ND	47	ND	NA	ND	180	57 ^B	6	ND	ND	440
Aug-00	ND	18	ND	50	ND	NA	ND	210 D	ND	2	2	2	150
Nov-00	ND	11	ND	24	ND	NA	ND	120	12	ND	2.66	ND	93
Mar-01	ND	7.7	ND	17	ND	ND	ND	96	ND	ND	ND	ND	184
Jul-02-01	ND	35	ND	38	ND	ND	ND	190	ND	ND	ND	ND	279
Sept-01	ND	21	ND	27	ND	ND	ND	95	ND	ND	ND	ND	99
Jan-06-02	ND	52	ND	56	ND	ND	ND	310	ND	ND	ND	ND	590
Mar-02	ND	1.3	ND	ND	ND	6.3	ND	11	ND	ND	ND	17	55
Jul-05-02	ND	ND	ND	15	ND	ND	ND	97	ND	140	ND	ND	95
Sept-02	ND	1.6	ND	ND	ND	ND	ND	9.1	ND	ND	ND	ND	63.4
Dec-02	ND	16	ND	13	ND	ND	ND	ND	ND	ND	8.2	ND	ND
Feb-03	ND	40	ND	25	ND	ND	ND	150	ND	ND	ND	ND	152
May-03	ND	10	ND	6.8	ND	ND	ND	42	ND	ND	ND	ND	125
Aug-03	ND	17	ND	13	ND	ND	ND	33	ND	ND	ND	ND	15
Dec-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	97
May-04	ND	1.8	ND	7.4	ND	ND	ND	43	ND	ND	ND	4.8	75
Dec-04	ND	26	ND	16	ND	ND	ND	65	ND	ND	ND	ND	89
Mar-05	ND	5.9	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	5.7
Sept-05	ND	12	ND	9.5	ND	ND	ND	39	ND	ND	ND	ND	167

Notes:
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
ND = Not Detected/Below minimum reporting limit
µg/L = Micrograms per liter

DCE = Dichloroethene
TCE = Trichloroethene

Table 7

Recovery Well RW-4S - Analytical Results

Volatile Organic Compounds (µg/L)

Essex/Hope Site

Jamestown, NY

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

Notes:

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

ND = Not Detected/Below minimum reporting limit

µg/L = Micrograms per liter

DCA = Dichloroethane

DCE = Dichloroethene

TCE = Trichloroethene

Table 8

Recovery Well RW-5S - Analytical Results

Volatile Organic Compounds (µg/L)

Essex/Hope Site

Jamestown, NY

Date	Acetone	Benzene	2-Butanone	Cumene	cis-1,2-DCE	trans-1,2-DCE	1,2-Dichloropropane	Ethylbenzene	Methylene Chloride	Toluene	TCE	Vinyl Chloride	Xylenes (total)
Jul-97	ND	ND	ND	NA	NA	ND	ND	620	ND	ND	ND	ND	2,000
Oct-97	ND	ND	440	ND	NA	ND	ND	420	580	ND	ND	ND	2,300
Dec-97	ND	ND	ND	ND	NA	ND	ND	35	ND	17	ND	ND	410
Mar-98	ND	ND	ND	ND	NA	ND	ND	ND	ND	15	ND	ND	86
Jun-98	ND	ND	66	6	NA	ND	ND	57	8	520	34	ND	520
Sept-98	33 J	ND	69	8 J	NA	ND	ND	92	ND	890	ND	ND	640
Nov-98	11	ND	ND	11	NA	ND	ND	120	34	320	7	ND	570
Feb-99	ND	ND	ND	7	NA	ND	ND	74	1	94	ND	ND	330
May-99	ND	ND	ND	ND	NA	ND	ND	3	1 ^B	7	7	2	26
Aug-99	ND	ND	ND	4	NA	ND	1	53	ND	16	ND	ND	660 D
Nov-99	ND	ND	ND	3	NA	ND	ND	22	2 ^B	ND	ND	ND	63
Feb-00	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	12
Apr-00	ND	ND	ND	5	NA	ND	ND	41	4 ^B	15	ND	ND	82
Aug-00	16 ^B	ND	ND	4	NA	ND	ND	29	9	7	ND	ND	68
Nov-00	<500	<100	<500	170	NA	<100	<100	16,000	340	6,100	<100	<100	73,000 D
Mar-01	ND	ND	ND	ND	ND	ND	ND	35	ND	ND	ND	ND	186
Jul-02-01	ND	ND	ND	ND	ND	ND	ND	20	ND	12	ND	ND	231
Sept-01	ND	ND	ND	6.9	180	ND	ND	91	ND	370	6.2	14	445
Jan-06-02	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11
Mar-02	35	ND	ND	15	ND	ND	ND	83	ND	6.9	ND	ND	274
Jul-05-02	ND	29	ND	51	ND	ND	ND	180	ND	6.6	ND	ND	35
Sept-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.3

Notes:

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

ND = Not Detected/Below minimum reporting limit

The November 2000 analytical data is considered suspect and non-representative of Recovery Well RW-5S.

DCE = Dichloroethene

TCE = Trichloroethene

µg/L = Micrograms per liter

Table 9

Recovery Well RW-1D - Analytical Results

Volatile Organic Compounds (µg/L)

Essex/Hope Site

Jamestown, NY

Date	Acetone	Benzene	2-Butanone	Cumene	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Toluene	TCE	Vinyl Chloride	Xylenes (total)
Jul-97*	ND	ND	ND	NA	ND	NA	26	ND	ND	ND	ND	23	ND
Oct-97	ND	ND	ND	NA	ND	NA	ND	ND	14	ND	ND	29	ND
Dec-97	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	93	ND
Mar-98*	37	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	200	ND
Jun-98*	ND	ND	ND	NA	ND	NA	2	ND	3	ND	ND	200	ND
Sept-98*	ND	ND	ND	NA	ND	NA	2 J	ND	2 J	ND	3 J	130	ND
Nov-98*	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	6	130	ND
Feb-99	ND	2	ND	NA	3	NA	4	ND	ND	ND	ND	140 D	ND
May-99	ND	2	ND	NA	4	NA	4	ND	1 ^B	ND	19	210	ND
Aug-99	ND	ND	ND	4	2	NA	16	ND	3	ND	ND	120	ND
Nov-99	ND	ND	ND	ND	54	NA	43	ND	24 ^B	ND	38	830 D	ND
Apr-8-00	14 ^B	23	ND	ND	85	NA	110	ND	11 ^B	ND	8	450 D	ND
Apr-30-00	ND	17	ND	ND	53	NA	84	ND	27 ^B	ND	25	530	ND
Aug-00	4 J ^B	4	ND	ND	11	NA	17	ND	ND	ND	16	25	ND
Nov-00	ND	14	ND	ND	41	NA	52	ND	ND	ND	150	910 D	ND
Apr-05-01	ND	3.7	ND	ND	10	1,500	14	ND	ND	ND	ND	ND	ND
Jul-02-01	ND	6.0	ND	ND	12	1,700	12	ND	ND	ND	14	110	ND
Sept-01	ND	3.6	ND	ND	12	1,400	17	ND	ND	ND	73	130	ND
Jan-06-02	12	ND	ND	ND	ND	180	ND	ND	ND	ND	ND	360	ND
Mar-02	ND	9.7	ND	ND	25	3,000	41	ND	ND	ND	62	52	ND
Jul-05-02	ND	6.6	ND	ND	15	2,300	9.4	ND	ND	ND	8.1	ND	15
Sept-02	ND	3.6	ND	ND	11	1,400	6.8	ND	ND	ND	39	26	ND
Dec-02	ND	5.6	ND	ND	11	1,300	13	ND	ND	ND	14	ND	ND
Feb-03	ND	4.8	ND	ND	14	1,700	15	ND	ND	ND	34	11	ND
May-03	ND	7.6	ND	ND	19	2,200	22	ND	ND	ND	46	ND	ND
Aug-03	ND	ND	ND	ND	11	1,600	19	ND	ND	ND	37	ND	ND
Dec-03	ND	ND	ND	ND	13	40	15	ND	ND	ND	39	ND	ND
May-04	11	1.5	ND	NA	8.3	370	8.1	ND	ND	ND	8.5	14	ND
Dec-04	ND	5.3	ND	ND	7.1	580	18	ND	ND	ND	32	75	ND
Mar-05	ND	ND	ND	ND	ND	630	5.6	ND	ND	ND	52	ND	ND
Sept-05	ND	ND	ND	ND	ND	48	ND	ND	ND	ND	ND	5.6	ND

Notes:

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

ND = Not Detected/Below minimum reporting limit

µg/L = Micrograms per liter

DCE = Dichloroethene

TCE = Trichloroethene

Table 10
Recovery Well RW-2D - Analytical Results
Volatile Organic Compounds (µg/L)
Essex/Hope Site
Jamestown, NY

Date	Acetone	Benzene	2-Butanone	Cumene	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	PCE	Toluene	TCE	Vinyl Chloride	Xylenes (total)
Aug-95**	ND	NA	NA	NA	NA	NA	200	NA	ND	NA	NA	5,600	32	ND
Jul-97*	ND	ND	130	NA	ND	NA	320 D	ND	ND	ND	ND	2,200 D	32	ND
Oct-97	ND	ND	270	ND	ND	NA	ND	ND	340	ND	ND	1,900 D	ND	ND
Dec-97	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	4,500 D	71	ND
Mar-98*	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	4,900	ND	ND
Jun-98*	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	2,200/2,500	83<25	ND
Sept-98*	ND	ND	ND	ND	ND	NA	ND	ND	80 J	ND	ND	3,200	110 J	ND
Nov-98*	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	4,700	150	ND
Feb-99	ND	ND	ND	ND	5	NA	5	ND	ND	1	ND	4,500 D	190	ND
May-99	ND	ND	ND	ND	6	NA	5	ND	1 ^B	1	ND	4,000	280	2
Aug-99	ND	2	ND	ND	ND	NA	5	2	ND	1	ND	2,800 D	190 D	13
Nov-99	ND	ND	ND	ND	65	NA	94	ND	ND	ND	ND	18,000 D	ND	ND
Feb-00	ND	ND	ND	ND	6	NA	7	7	ND	ND	ND	1,900 D	210	38
Apr-00	120 ^B	ND	ND	ND	ND	NA	ND	ND	410 ^B	ND	ND	3,100	150	ND
Aug-00	ND	3	16	ND	12	NA	11	ND	ND	ND	ND	3,000 D	160 D	ND
Nov-00	ND	4.7	ND	ND	25	NA	19	ND	3.06 ^B	1.04	ND	4,400 D	120 D	1.49
Mar-01	ND	6.5	ND	ND	17	5,200	27	ND	ND	ND	ND	1,100	530	ND
Jul-02-01	ND	7.2	ND	ND	16	4,200	27	ND	ND	ND	ND	270	610	ND
Sept-01	ND	7.5	ND	ND	25	7,900	32	ND	ND	ND	ND	330	1,300	ND
Jan-06-02	ND	9.2	ND	ND	25	7,800	41	ND	ND	ND	ND	310	1,100	8.9
Mar-02	ND	9.9	ND	ND	33	12,000	29	ND	ND	ND	ND	150	1,700	ND
Jul-05-02	ND	9.1	28	ND	ND	50	7.8	ND	ND	ND	ND	ND	55	12
Sept-02	ND	9.5	ND	ND	32	7,900	26	ND	ND	ND	ND	210	1,300	ND
Dec-02	ND	9.7	ND	ND	22	4,300	18	ND	ND	ND	ND	110	1,600	ND
Feb-03	ND	9.7	ND	ND	26	6,000	26	ND	ND	ND	ND	490	1,100	ND
May-03	ND	11	ND	ND	23	5,000	21	ND	ND	ND	ND	840	960	ND
Aug-03	ND	9.2	ND	ND	22	4,500	29	ND	ND	ND	ND	600	1,000	ND
Dec-03	ND	8.3	ND	ND	19	3,900	28	ND	ND	ND	ND	400	1,300	ND
May-04	ND	11	ND	ND	34	6,400	32	ND	ND	ND	ND	760	1,600	ND
Dec-04	ND	11	ND	ND	26	4,900	41	ND	ND	ND	ND	1,100	850	ND
Mar-05	ND	10	ND	ND	9.5	4,200	27	ND	ND	ND	ND	ND	2,000	ND
Sept-05	ND	10	ND	ND	31	7,100	37	ND	ND	ND	ND	1,100	1,200	ND

Notes:
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.
** = Sample results reported represent the highest values obtained from the 5.5 hour and 29 hours samples.
J = Estimated concentration
NA = Not analyzed
ND = Not Detected/Below minimum reporting limit
µg/L = Micrograms per liter

DCE = Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene

Table 11

**2005 Annual Monitoring Well Analytical Results
Essex/Hope Site
Jamestown, NY**

Volatile Organic Compounds (µg/L)	MW-2	MW-5	MW-7D	MW-7S	MW-3	MW-14D	MW-14S	MW-15D	MW-15S	MW-18D	MW-20	MW-21D	MW-22D	PZ-7D	PZ-11D	VP-8D	EQ BLK	TRIP BLANK
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	13	ND	ND	ND	1.1	1.5	ND	ND	1.7	430	8.5	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	360	ND	ND	ND	ND	9.3	ND	ND
1,1-Dichloroethene	ND	ND	22	ND	ND	ND	17	77	ND	ND	ND	510	25	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	53	8,000	9	62	ND	1,100	10,000	ND	ND	ND	80,000	3,100	24	ND	ND	21	ND
trans-1,2-Dichloroethene	ND	ND	52	ND	ND	ND	17	98	ND	ND	ND	380	28	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	890	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	380	28	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	10	40	ND	ND	ND	800	1,400	5.9	ND	ND	350,000	15,000	22	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	1,600	ND	18	ND	79	550	ND	420	ND	2,800	83	380	ND	ND	ND	ND
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8,590	ND	ND	ND	ND	ND	ND	ND

Notes:

Samples collected in February 2006
µg/L = Micrograms per liter
ND = Not Detected/Below minimum laboratory reporting limit

Table 12

**Monitoring Well MW-2 - Analytical Results
Essex/Hope Site
Jamestown, NY**

Volatile Organic Compounds (µg/L)	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	Feb 2006
Acetone			ND	ND	ND	ND	ND	ND	4.55	8.9	ND	ND	ND	ND
Benzene			ND	ND	NA	27	29	30	11	10	3.9	3.5	1.4	ND
Bromodichloromethane			ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromoform			ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromomethane			ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
2-Butanone			ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride			ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene			ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroethane			ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroform			ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)			NA	NA	NA	ND	26	24	13	15	6.6	5.1	7.5	11
Dibromochloromethane			ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		220 ^J	ND	ND	NA	7	ND	2	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		NA	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane		ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (total)		2,700	2,700	2,200 ^{JO}	370	ND	ND	ND	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethane		NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
trans-1,2-Dichloroethane	1500	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	2,200	3,100	3,200	ND	4,100	2,900	64	9	27	ND	ND	ND	ND	ND
Methylene chloride			ND	ND	NA	ND	ND	7	2,32 ^E	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane			ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane			ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Toluene		220,000	93,000 ^E	100,000 ^{JO}	99,000	17,000	58	2	53 ^{JO}	ND	ND	ND	ND	ND
1,1,1-Trichloroethane			ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane			ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	340	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane			NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	180	9	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	13,000	18,000	16,000	13,000 ^{JO}	21,000	12,000	90	8	82	ND	ND	ND	ND	ND

Notes:

Feb 1992 values are RI values.

MW-2 was dry during the November 2000 sampling event.

B = Qualified as non-detected 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

ND = Not detected/Below minimum laboratory reporting limit

R = Rejected

µg/l = Micrograms per liter

Table 13

Monitoring Well MW-6 - Analytical Results
Essex/Hope Site
Jamestown, NY

Volatile Organic Compounds (µg/L)	Aug 1989	Feb 1990	Feb 1992	Aug 1995	Jul 1997	Nov 1998	Nov 1999	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004	Feb 2006
Acetone				NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene				NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromoform				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromomethane				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
2-Butanone			10	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroethane				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroform				NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)				NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane				NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane				NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane				NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)			58	42	1,100	ND	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene				NA	NA	NA	NA	NA	ND	ND	ND	ND	53
trans-1,2-Dichloroethene	210	74		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND		NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride				NA	ND	ND	6	5.64 ^a	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND		NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	37	31	26	48	3,100	79	10	37	ND	ND	ND	ND	10
Trichlorofluoromethane				NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	84	2	10	NA	6	8	ND	48	ND	ND	ND	ND	ND
Xylenes (total)	ND	ND		NA	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

B = Qualified as non-detected due to blank contamination

NA = Not analyzed

ND = Not detected/Below minimum laboratory reporting limit

µg/l = Micrograms per liter

Table 14

**Monitoring Well MW-7S - Analytical Results
Essex/Hope Site
Jamestown, NY**

Volatile Organic Compounds (µg/L)	Aug 1989	Feb 1990	Feb 1992	Aug 1995	Jul 1997	Nov 1998	Nov 1999	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004	Feb 2006
Acetone			ND	NA	ND	ND	ND	ND	ND	ND	ND	16	ND
Benzene			ND	NA	ND	ND	ND	9	ND	ND	ND	ND	ND
Bromodichloromethane			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromoform			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromomethane			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
2-Butanone			ND	ND	320	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroethane			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroform			ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)			NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane			ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane			NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,1,1-Dichloroethane			ND	ND	ND	ND	ND	35	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)			27	210	ND	ND	ND	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene			NA	NA	NA	NA	NA	NA	23	11	9.8	ND	9
trans-1,2-Dichloroethene	69	8	NA	NA	NA	NA	ND	7	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	NA	ND	ND	1	ND	ND	ND	ND	ND	ND
Methylene chloride			ND	NA	ND	ND	ND	37 ^B	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	NA	ND	ND	ND	7	ND	ND	ND	ND	ND
1,1,1-Trichloroethane			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane			ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1,100	140	30	220	30	160	8	900 ^D	7.6	7.5	6.6	7.2	ND
Trichlorofluoromethane			NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	870 ^D	2.1	ND	ND	ND	ND
Xylenes (total)	ND	ND	ND	NA	ND	ND	2	2 ^J	ND	ND	ND	ND	ND

Notes:

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

ND = Not detected/Below minimum laboratory reporting limit

R = Rejected

µg/l = Micrograms per liter

Table 15

**Monitoring Well MW-7D - Analytical Results
Essex/Hope Site
Jamestown, NY**

Volatiles Organic Compounds (µg/L)	Feb 1990	Feb 1992	Aug 1995	July 1997	Nov 3 1998	Nov 24 1998	Nov 1999	Nov 2000	Nov 2000 DUP	Dec 2001 DUP	Dec 2002 DUP	Dec 2002 DUP	Nov 2003 DUP	Dec 2004	Feb 2006	DUP (MW-7D)
Acetone		ND	NA	ND	ND	ND	ND	11 ^B	12 ^B	ND	ND	ND	ND	ND	ND	ND
Benzene		ND	NA	ND	ND	ND	ND	2 ^J	ND	ND	5.3	5.4	5.6	9	11	13
Bromodichloromethane		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodiform		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone		ND	ND	11,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)		NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	43	22	2 ^J	10	7.9	7.4	5.1	6.1	12	19	22
1,2-Dichloroethene (total)		3 ^J	NA	6	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA
cis-1,2-Dichloroethene			NA	NA	NA	NA	NA	NA	NA	3,800	4,100	2,900	2,500	6,900	7,700	8,000
trans-1,2-Dichloroethene	48	NA	NA	NA	61	64	29	2 ^J	12	18	28	13	11	31	32	52
1,2-Dichloropropane		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	NA	ND	ND	ND	ND	ND	14 ^B	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	NA	ND	ND	ND	6	36 ^B	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	NA	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	2	ND	1 ^J	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	940	34	25	8	340,000	26,000	17,000 ^D	150	7,100 ^D	1,800	1,700	38	ND	25	37	40
Trichlorofluoromethane		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	43	ND	30	ND	20	51	270 ^D	46	520	1,600	1,600	860	1,100	1,500	1,600
Xylenes (total)	ND	ND	NA	ND	ND	ND	ND	ND	18	ND	10	ND	ND	ND	ND	ND

Notes:

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

ND = Not detected/Below minimum laboratory reporting limit

R = Rejected

µg/l = Micrograms per liter

Table 16
Monitoring Well MW-8 - Analytical Results
Essex/Hope Site
Jamestown, NY

Volatiles Organic Compounds (µg/L)	Aug 1999	Feb 1999	July 1997	Nov 1998	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004	Feb 2006
Acetone			ND	ND	10	ND	ND	ND	470	ND
Benzene			ND	ND	ND	ND	ND	ND	2.4	ND
Bromodichloromethane			NA	NA	ND	ND	ND	ND	ND	ND
Bromoform			NA	NA	ND	ND	ND	ND	ND	ND
Bromomethane			NA	NA	ND	ND	ND	ND	ND	ND
2-Butanone			97	ND	3 ^B	ND	ND	ND	ND	ND
Carbon Tetrachloride			NA	NA	ND	ND	ND	ND	ND	ND
Chlorobenzene			NA	NA	ND	ND	ND	ND	ND	ND
Chloroethane			NA	NA	ND	ND	ND	ND	ND	ND
Chloroform			NA	NA	ND	ND	ND	ND	ND	ND
Chloromethane			NA	NA	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)			ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane			NA	NA	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane			ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane			NA	NA	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)			21	ND	NA	ND	ND	NA	NA	NA
cis-1,2-Dichloroethene			NA	NA	NA	86	50	65	96	62
trans-1,2-Dichloroethene	26	2	NA	NA	2 ^J	ND	ND	ND	7.4	ND
1,2-Dichloropropane			NA	NA	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene			NA	NA	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene			NA	NA	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride			ND	ND	16 ^B	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane			NA	NA	ND	ND	ND	ND	ND	ND
Tetrachloroethene			NA	NA	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane			NA	NA	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane			NA	NA	ND	ND	ND	ND	ND	ND
Trichloroethene	150	17	28	640	31	75	ND	ND	170	ND
Trichlorofluoromethane			NA	NA	ND	ND	ND	ND	ND	ND
Vinyl chloride	4	ND	ND	ND	20	4.4	15	25	15	18
Xylenes (total)			ND	ND	5	ND	ND	ND	ND	ND

Notes:
 B = Qualified as non-detect due to blank contamination
 J = Estimated Concentration
 NA = Not analyzed
 ND = Not detected/Below minimum laboratory reporting limit
 µg/l = Micrograms per liter

Table 17

**Monitoring Well MW-14S - Analytical Results
Essex/Hope Site
Jamestown, NY**

Volatil Organic Compounds (µg/L)	Feb 1992	July 1992	Aug 1995	Jul 1997	Nov 1998	Nov 1999	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004	Feb 2006
Acetone			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene			NA	ND	ND	ND	3 ^J	ND	ND	2.5	1.8	1.1
Bromodichloromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromoform			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromomethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
2-Butanone	200		NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroform			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane			NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene		19	45	42	ND	9	29	ND	7.7	39	28	17
1,2-Dichloroethene (total)	440	840	NA	1,800	ND	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene			NA	NA	NA	NA	NA	ND	850	3,200	2,100	1,100
trans-1,2-Dichloroethene			NA	NA	NA	7	91	99	7	23	18	17
1,2-Dichloropropane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	11	2	NA	ND	ND	10	23 ^B	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene			NA	ND	NA	ND	ND	ND	ND	ND	ND	ND
Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1,200	450	920	2,900	1,400	190 ^P	4,200 ^D	110	470	2,700	2,700	800
Trichlorofluoromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride		290	170	58	170	51	100	2.4	28	190	190	79
Xylenes (total)			ND	ND	ND	ND	ND	ND	ND	ND	22	ND

Notes:

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
ND = Not detected/Below minimum laboratory reporting limit
µg/l = Micrograms per liter

Table 18

**Monitoring MW-14D - Analytical Results
Essex/Hope Site
Jamestown, NY**

Volatile Organic Compounds (µg/L)	Feb 1992	July 1992	Aug 1995	Jul 1997	Nov 1998	Nov 1999	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004	Feb 2006
Acetone			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromoform			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromomethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
2-Butanone	10		ND	17	ND	ND	5 ^J	ND	ND	ND	ND	ND
Carbon Tetrachloride			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroform			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane			NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	15	3	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene			NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		0.7	NA	ND	ND	1	26 ^B	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene			ND	NA	NA	ND	ND	ND	ND	ND	ND	ND
Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	28	5	1	ND	ND	2	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	20	29	13	40	ND	ND	ND	ND	ND	2.2	ND	ND
Xylenes (total)	8		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

B = Qualified as non-detect due to blank contamination

J = Estimated Concentration

NA = Not analyzed

ND = Not detected/Below minimum laboratory reporting limit

µg/l = Micrograms per liter

Table 19

**Monitoring Well MW-15S - Analytical Results
Essex/Hope Site
Jamestown, NY**

Volatle Organic Compounds (µg/L)	Feb 1982	July 1982	Aug 1985	Jul 1987	Nov 1988	Nov 1999	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004	Feb 2006
Acetone			NA	ND	ND	ND	13 ^B	ND	ND	ND	ND	ND
Benzene			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromoform			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromomethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
2-Butanone			ND	ND	ND	ND	5 ^J	ND	ND	ND	ND	ND
Carbon Tetrachloride			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroform			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane			NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND		76	68	ND	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene			NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride			NA	ND	ND	1	22 ^B	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene			ND	NA	NA	ND	ND	ND	ND	ND	ND	ND
Toluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	0.6	140	140	97	15	24	ND	ND	13	6.9	5.9
Trichlorofluoromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

B = Qualified as non-detect due to blank contamination

J = Estimated Concentration

NA = Not analyzed

ND = Not detected/Below minimum laboratory reporting limit
µg/l = Micrograms per liter

Table 20

**Monitoring Well MW-15D - Analytical Results
Essex/Hope Site
Jamestown, NY**

Volatiles Organic Compounds (µg/L)	Feb 1992	July 1992	Aug 1995	Jul 1997	Nov 1998	Nov 1999	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004	Feb 2006
Acetone			NA	ND	ND	ND	7 ^B	ND	ND	ND	ND	ND
Benzene			NA	NA	NA	ND	1 ^J	ND	1.1	ND	1.7	1.5
Bromodichloromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromoform			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromomethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
2-Butanone		2	ND	ND	ND	ND	5 ^J	ND	ND	ND	ND	ND
Carbon Tetrachloride			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroform			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		1	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1,1-Dichloroethane			ND	ND	ND	6	26	24	46	62	59	77
1,2-Dichloroethene (total)	130	56	33	29	ND	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene			NA	NA	NA	NA	NA	2,000	3,700	8,900	11,000	10,000
trans-1,2-Dichloroethene			NA	NA	NA	9	100	30	35	91	91	98
1,2-Dichloropropane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene			26	6	ND	5	ND	ND	ND	ND	ND	ND
Ethylbenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride			NA	ND	ND	1	23 ^B	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Toluene			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	600		NA	ND	ND	ND	100	39	870	1,400	1,100	1,400
Trichlorofluoromethane			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride		4	2	ND	39	58	190 ^D	190	190	260	270	550
Xylenes (total)			NA	NA	NA	ND	ND	ND	ND	ND	ND	ND

Notes:

B = Qualified as non-defect due to blank contamination

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

J = Estimated Concentration

NA = Not analyzed

ND = Not detected/Below minimum laboratory reporting limit

µg/l = Micrograms per liter

Table 21

Monitoring Well MW-19D - Analytical Results
Essex/Hope Site
Jamestown, NY

Volatle Organic Compounds (µg/L)	Mar 1993	Aug 1995	Jul 1997	Nov 1998	Nov 1999	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004	Feb 2006
Acetone		NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene		NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromoform		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Bromomethane		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
2-Butanone		NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroethane		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroform		NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)		NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
1,2-Dichloroethene (total)		ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		NA	ND	ND	5	15 ^B	ND	ND	ND	ND	ND
1,1,2-Tetrachloroethane		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene		ND	NA	NA	ND	ND	ND	ND	ND	ND	ND
Toluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane		NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	6	410	830	1,100	1,500 ^D	1,300 ^D	1,200	660	600	760	420
Xylenes (total)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

B = Qualified as non-detect due to blank contamination

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

NA = Not analyzed

ND = Not detected/Below minimum laboratory reporting limit
µg/l = Micrograms per liter

Table 22

**Monitoring Well MW-20 - Analytical Results
Essex/Hope Site
Jamestown, NY**

Volatle Organic Compounds (µg/L)	Mar 1993	Jul 1997	Nov 1998	Nov 1998	Nov 2000	Dec 2001	Dec 2002	Nov 2003	Dec 2004	Feb 2006
Acetone	NA	ND	ND	ND	10	5.6	ND	34	ND	ND
Benzene	NA	ND	ND	ND	3 ^J	2.3	2	2.2	2.1	1.7
Bromodichloromethane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Bromoform	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Bromomethane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Butanone	NA	ND	ND	ND	ND	ND	ND	14	ND	ND
Carbon Tetrachloride	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chlorobenzene	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chloroethane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chloroform	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	NA	ND	350	340	ND	ND	350	530	400	360
Dibromochloromethane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethylbenzene	3,100	480	3,300	4,800	11,000 ^D	5,000	2,300	4,800	3,000	890
Methylene chloride	NA	ND	ND	440	12 ^B	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Tetrachloroethene	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Toluene	790	14	2,500	5,800	4,700 ^D	1,500	440	3,100	1,900	380
1,1,1-Trichloroethane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Trichloroethene	NA	ND	1,700	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Vinyl chloride	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	20,000	5,100	26,000	31,000	68,000 ^D	33,900	18,500	35,800	22,000	8,590

Notes:

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

ND = Not detected/Below minimum laboratory reporting limit

µg/l = Micrograms per liter

Table 23

**Monitoring Well MW-21D - Analytical Results
Essex/Hope Site
Jamestown, NY**

Volatile Organic Compounds (µg/L)	Nov 2003	Dec 2004	Feb 2006
Acetone	ND	ND	27
Benzene	760	560	430
Bromodichloromethane	ND	ND	ND
Bromoform	ND	ND	ND
Bromomethane	ND	ND	ND
2-Butanone	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND
Chlorobenzene	ND	ND	ND
Chloroethane	ND	ND	ND
Chloroform	ND	ND	ND
Chloromethane	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND
Dibromochloromethane	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
1,1-Dichloroethene	630	430	510
cis-1,2-Dichloroethene	41,000	28,000	80,000
trans-1,2-Dichloroethene	370	280	380
1,2-Dichloropropane	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND
Ethylbenzene	ND	ND	ND
Methylene chloride	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND
Tetrachloroethene	ND	ND	ND
Toluene	21	27	28
1,1,1-Trichloroethane	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND
Trichloroethene	300,000	160,000	350,000
Trichlorofluoromethane	ND	ND	ND
Vinyl chloride	5,800	2,400	2,800
Xylenes (total)	ND	ND	ND

Notes:

ND = Not detected/Below minimum laboratory reporting limit

µg/l = Micrograms per liter

Table 24

**Monitoring Well MW-22D - Analytical Results
Essex/Hope Site
Jamestown, NY**

Volatile Organic Compounds (µg/L)	Nov 2003	Dec 2004	Dec 2004 DUP	Feb 2006
Acetone	ND	ND	ND	ND
Benzene	10	6.4	6.7	8.5
Bromodichloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1-Dichloroethene	48	20	20	25
cis-1,2-Dichloroethene	3,400	3,200	3,300	3,100
trans-1,2-Dichloroethene	15	21	17	28
1,2-Dichloropropane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Trichloroethene	17,000	12,000	12,000	15,000
Trichlorofluoromethane	ND	ND	ND	ND
Vinyl chloride	170	57	52	83
Xylenes (total)	ND	ND	ND	ND

Notes:

ND = Not detected/Below minimum laboratory reporting limit

µg/l = Micrograms per liter

Table 25

**Additional 2005 PMP Monitoring Locations - Analytical Results
Essex/Hope Site
Jamestown, NY**

Volatile Organic Compounds (µg/L)	PZ-7D	PZ-11D	VP-8D
Acetone	ND	ND	ND
Benzene	ND	ND	ND
Bromodichloromethane	ND	ND	ND
Bromoform	ND	ND	ND
Bromomethane	ND	ND	ND
2-Butanone	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND
Chlorobenzene	ND	ND	ND
Chloroethane	ND	ND	ND
Chloroform	ND	ND	ND
Chloromethane	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	9.3
Dibromochloromethane	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND
cis-1,2-Dichloroethene	24	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND
Ethylbenzene	ND	ND	ND
Methylene chloride	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND
Tetrachloroethene	ND	ND	ND
Toluene	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND
Trichloroethene	22	ND	ND
Trichlorofluoromethane	ND	ND	ND
Vinyl chloride	380	ND	ND
Xylenes (total)	ND	ND	ND

Notes:

ND = Not detected/Below minimum laboratory reporting limit

µg/l = Micrograms per liter

Table 26

POTW Monthly Monitoring Summary
2005 System Pre-Carbon
Volatile Organic Compounds (µg/L)

Sample Date	30-Jan-05	27-Feb-05	30-Mar-05	30-Apr-05	28-May-05	28-Jun-05	28-Jul-05	8-Sep-05	29-Sep-05 ⁽¹⁾	1-Dec-05	21-Dec-05
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	7.1	5.8	ND	ND	9.8	9.9	9.9	5.3	5.4	2.5	6.5
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	16	12	ND	ND	24	28	23	12	9.9	5	16
cis-1,2-Dichloroethene	3,500	3,000	370	940	5,200	4,800	5,300	3,500	2,500	980	3,500
trans-1,2-Dichloroethene	26	12	ND	ND	25	37	41	19	15	7.2	25
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1,100	760	630	14	1,300	1,200	1,000	660	620	150	820
Vinyl Chloride	560	480	62	630	890	770	640	410	340	210	510
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	6.3	ND	ND
Pre-Carb TOTAL VOCs	5,209.1	4,269.8	1,062.0	1,584.0	7,448.8	6,844.9	7,013.9	4,606.3	3,496.6	1,354.7	4,877.5

Notes:

1. No POTW Sampling was conducted for the month of October.
2. Carbon was changed out on November 11, 2005.

Pre-Carbon sample results represent system influent.
 ND = Not detected/Below minimum laboratory reporting limit

Table 27

**POTW Monthly Monitoring Summary
2005 System Primary Carbon Effluent
Volatile Organic Compounds (µg/L)**

Sample Date	30-Jan-05	27-Feb-05	30-Mar-05	30-Apr-05	28-May-05	28-Jun-05	28-Jul-05	8-Sep-05	29-Sep-05	1-Dec-05	21-Dec-05
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	7.9	7.2	6.1	6.8	ND	ND
cis-1,2-Dichloroethene	7.9	110	370	980	1,400	2,000	2,400	2,500	2,500	13	13
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	12	6.6	9	15	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	7.6	ND	14	20	45	31	17	17	ND	ND
Vinyl Chloride	750	740	610	650	820	850	740	840	840	8	7
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Primary Carbon TOTAL VOCs	757.9	857.6	980.0	1,644.0	2,240.0	2,914.9	3,184.8	3,372.1	3,378.8	21.0	20.0

Notes:

1. No POTW Sampling was conducted for the month of October.
2. Carbon was changed out on November 11, 2005.

Primary Carbon sample results represent effluent from the first carbon vessel in the two (2) carbon vessel system.
 ND = Not detected/Below minimum laboratory reporting limit

Table 28

**POTW Monthly Monitoring Summary
2005 System Post Carbon Effluent
Volatile Organic Compounds (µg/L)**

Sample Date	30-Jan-05	27-Feb-05	30-Mar-05	30-Apr-05	28-May-05	28-Jun-05	28-Jul-05	8-Sep-05	29-Sep-05	1-Dec-05 ⁽²⁾	21-Dec-05 ⁽³⁾
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	<1	<1	<1	<1	<1	<1	<1	1.4	3.7	2.2	4.3
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	7.3	<5	<5
cis-1,2-Dichloroethene	150	93	63	72	71	68	55	1,300	2,500	730	2,600
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	12	5.1	15
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	<5	<5	<5	<5	<5	<5	<5	140	480	130	550
Vinyl Chloride	4.1	41	210	560	920	1,000	850	700	490	190	340
Total Xylenes	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Post Carbon TOTAL VOCs	154.1	134.0	273.0	632.0	991.0	1,068.0	905.0	2,141.4	3,493.0	1,057.3	3,509.3

Notes:

1. No POTW Sampling was conducted for the month of October.
2. Carbon was changed out on November 11, 2005.
3. Post-Carbon sample results for 12/1/05 and 12/21/05 invalid due to field sampling inaccuracy.

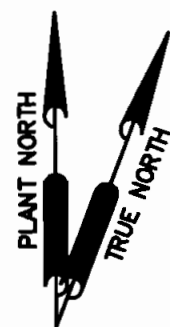
POTW Discharge Limit = 2,130 ug/L Total Toxic Organics (VOCs)

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.

ND = Not detected/Below minimum laboratory reporting limit

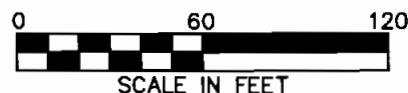
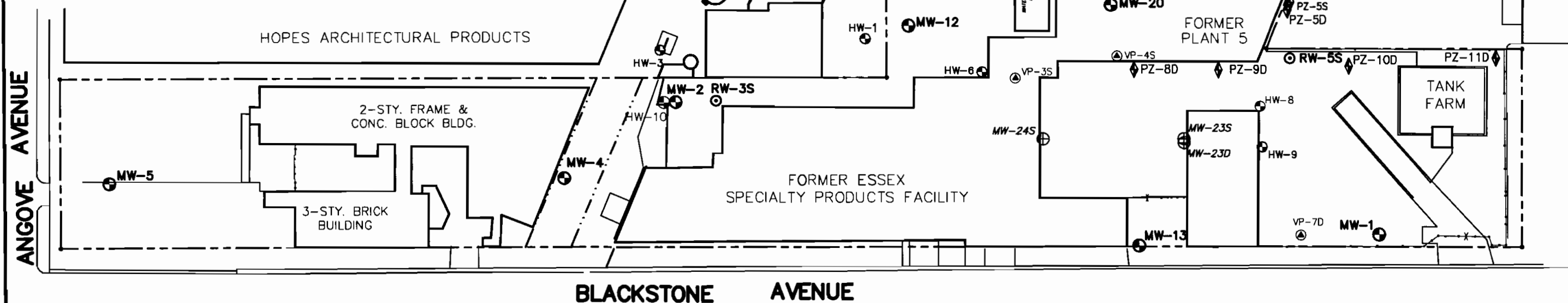
FIGURES



LEGEND

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

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



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PITTSBURGH, PENNSYLVANIA

2005 ANNUAL PERFORMANCE MONITORING REPORT EXISTING SITE PLAN

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

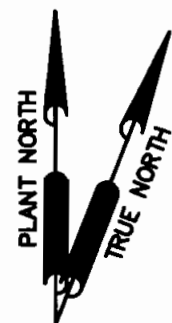
JOB NUMBER: 41567715

SCALE: AS SHOWN

FIGURE
NUMBER

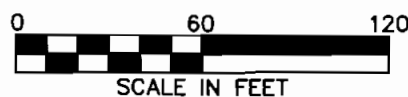
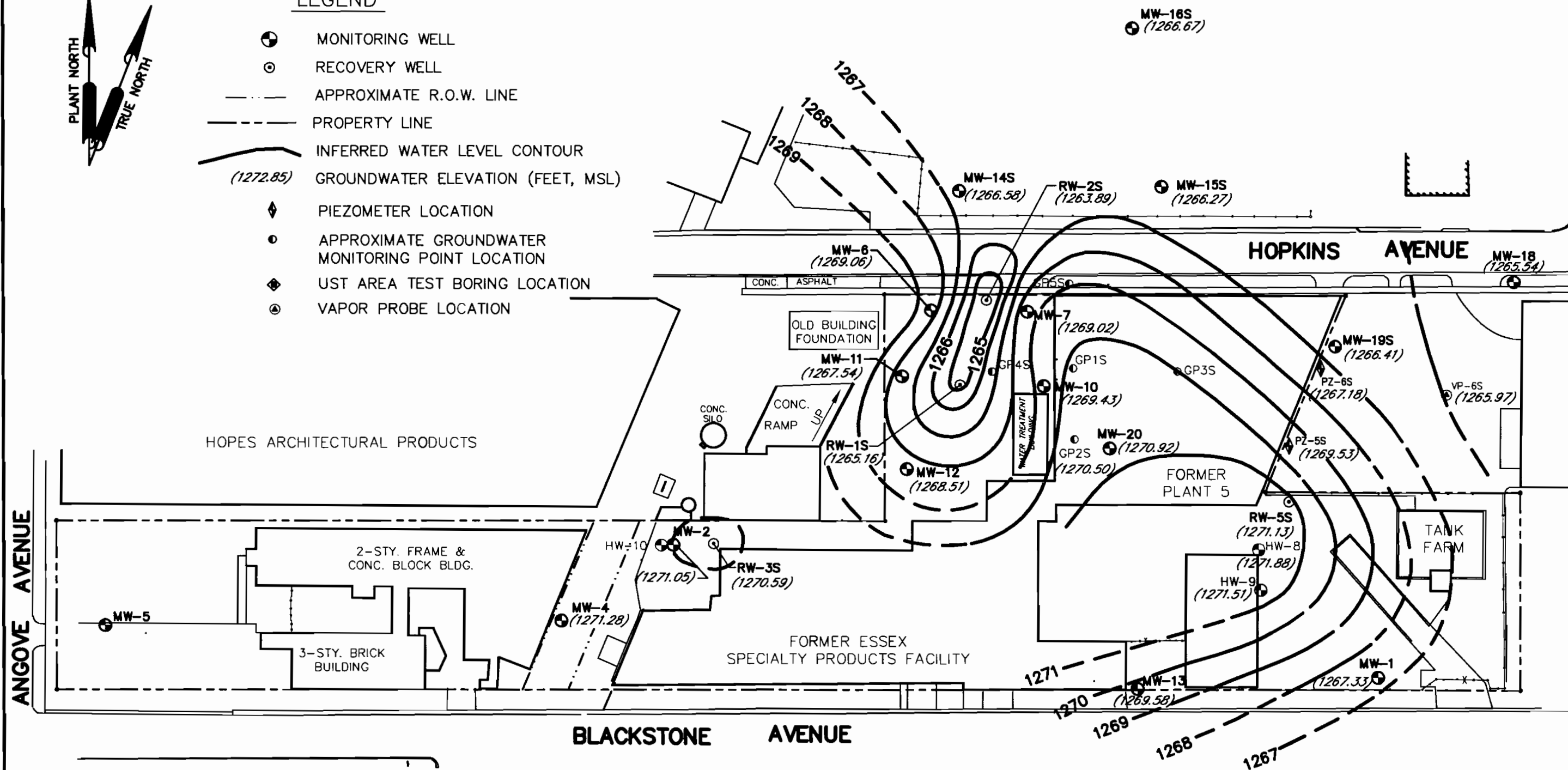
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LEGEND

- MONITORING WELL
- RECOVERY WELL
- APPROXIMATE R.O.W. LINE
- PROPERTY LINE
- INFERRED WATER LEVEL CONTOUR
- GROUNDWATER ELEVATION (FEET, MSL)
- PIEZOMETER LOCATION
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- UST AREA TEST BORING LOCATION
- VAPOR PROBE LOCATION



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2005 ANNUAL PERFORMANCE MONITORING REPORT WATER TABLE CONTOUR MAP - MAY 11, 2005

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

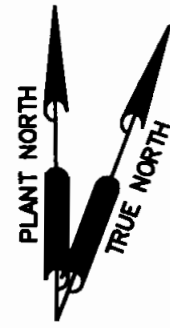
JOB NUMBER: 41567715

SCALE: AS SHOWN

FIGURE
NUMBER

3

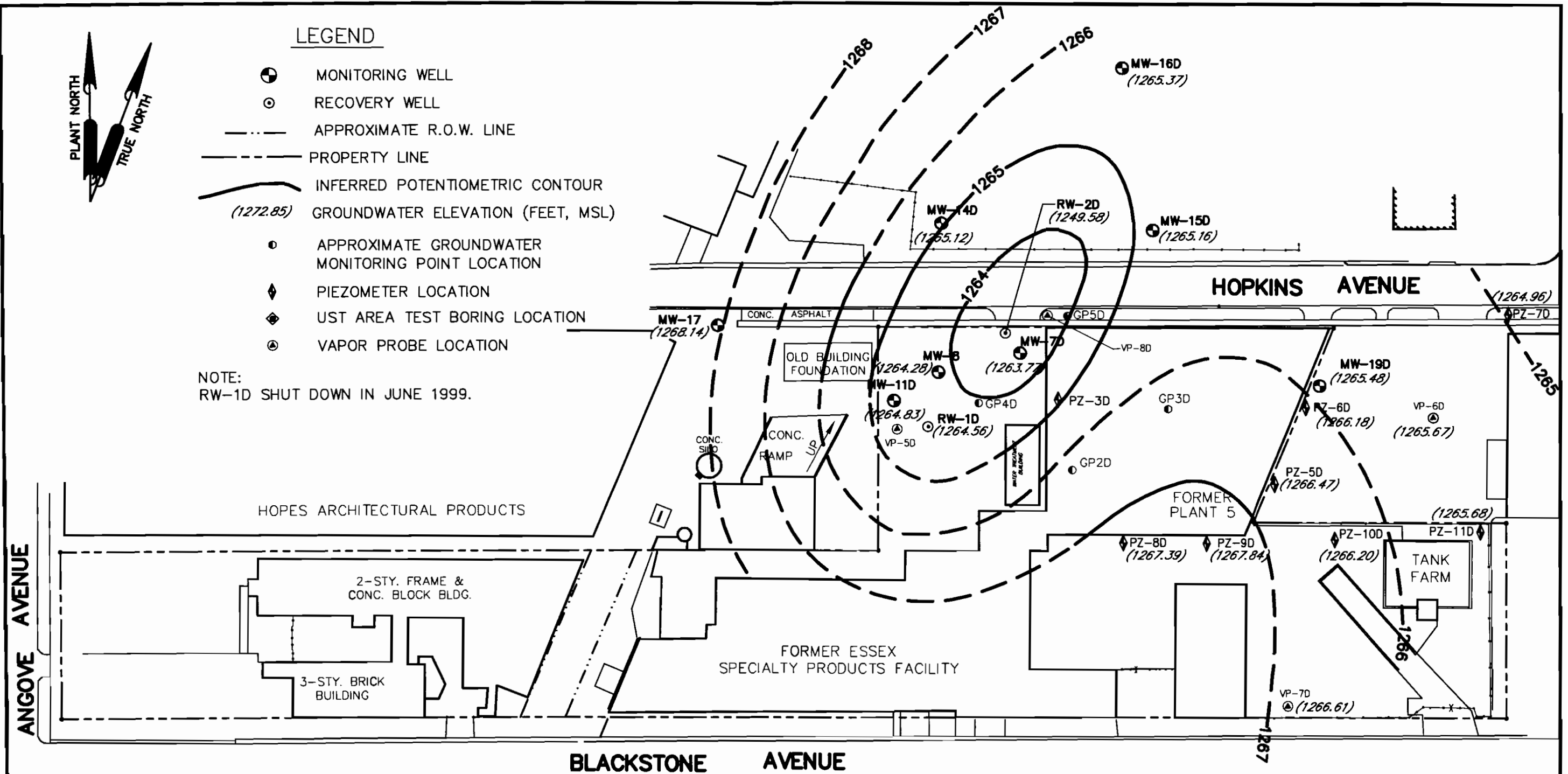
REV
0



LEGEND

- MONITORING WELL
- RECOVERY WELL
- - - APPROXIMATE R.O.W. LINE
- - - PROPERTY LINE
- - - INFERRED POTENTIOMETRIC 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

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PITTSBURGH, PENNSYLVANIA

2005 ANNUAL PERFORMANCE MONITORING REPORT POTENTIOMETRIC CONTOUR MAP LOWER FINE SAND WATER BEARING ZONE - MAY 11, 2005

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

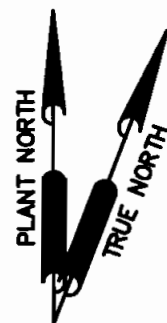
JOB NUMBER: 41567715

SCALE: AS SHOWN

FIGURE
NUMBER

4

REV
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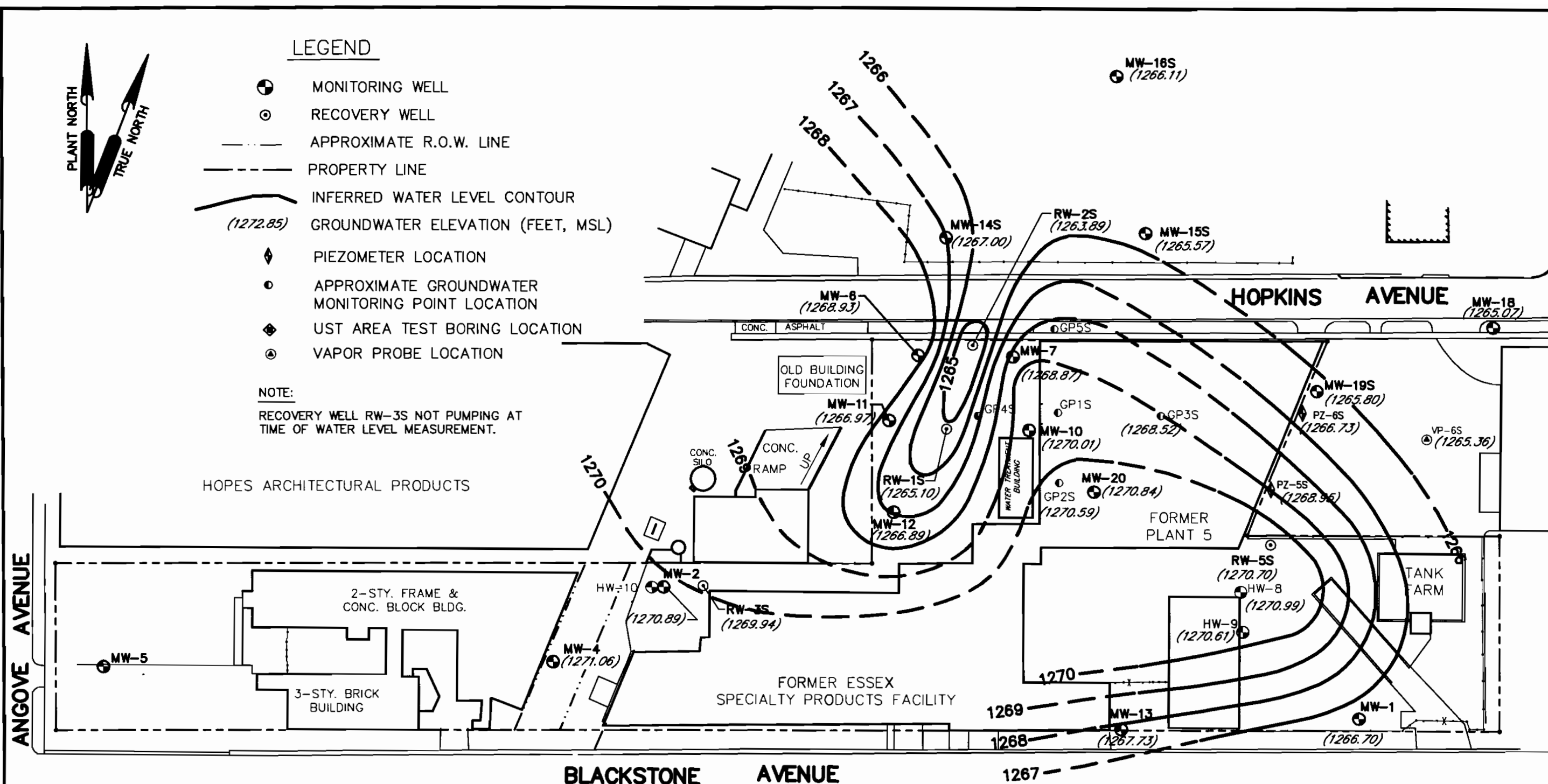


LEGEND

- MONITORING WELL
- RECOVERY WELL
- APPROXIMATE R.O.W. LINE
- PROPERTY LINE
- INFERRED WATER LEVEL CONTOUR
- GROUNDWATER ELEVATION (FEET, MSL)
- PIEZOMETER LOCATION
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- UST AREA TEST BORING LOCATION
- VAPOR PROBE LOCATION

NOTE:

RECOVERY WELL RW-3S NOT PUMPING AT TIME OF WATER LEVEL MEASUREMENT.



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2005 ANNUAL PERFORMANCE MONITORING REPORT WATER TABLE CONTOUR MAP - JUNE 28, 2005

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

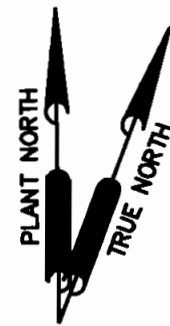
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SCALE: AS SHOWN

FIGURE
NUMBER

5

REV
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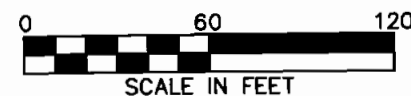
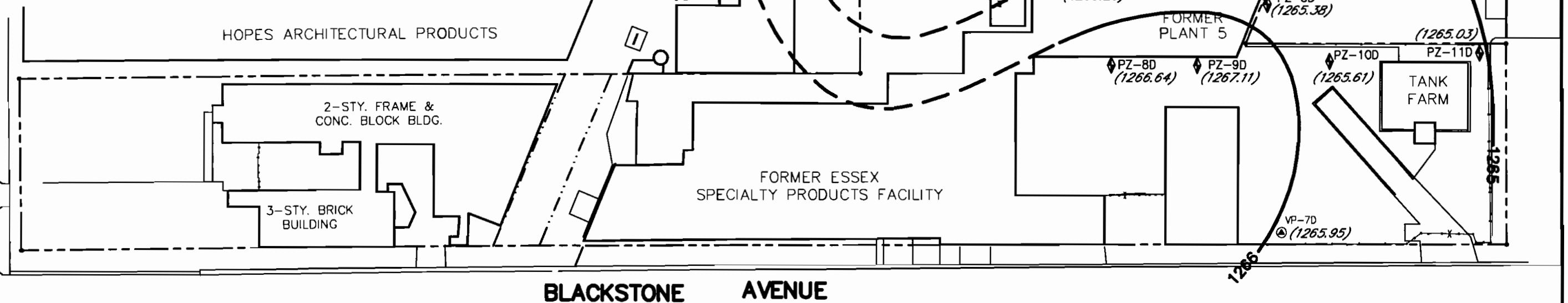


LEGEND

- MONITORING WELL
- RECOVERY WELL
- APPROXIMATE R.O.W. LINE
- PROPERTY LINE
- INFERRED POTENTIOMETRIC CONTOUR
- 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.

ANGOVE AVENUE



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2005 ANNUAL PERFORMANCE MONITORING REPORT POTENTIOMETRIC CONTOUR MAP LOWER FINE SAND WATER BEARING ZONE - JUNE 28, 2005

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

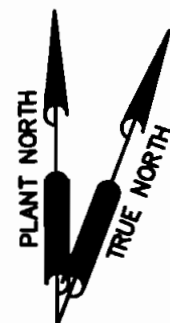
JOB NUMBER: 41567715

SCALE: AS SHOWN

FIGURE
NUMBER

6

REV
0

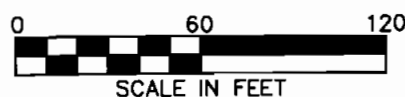
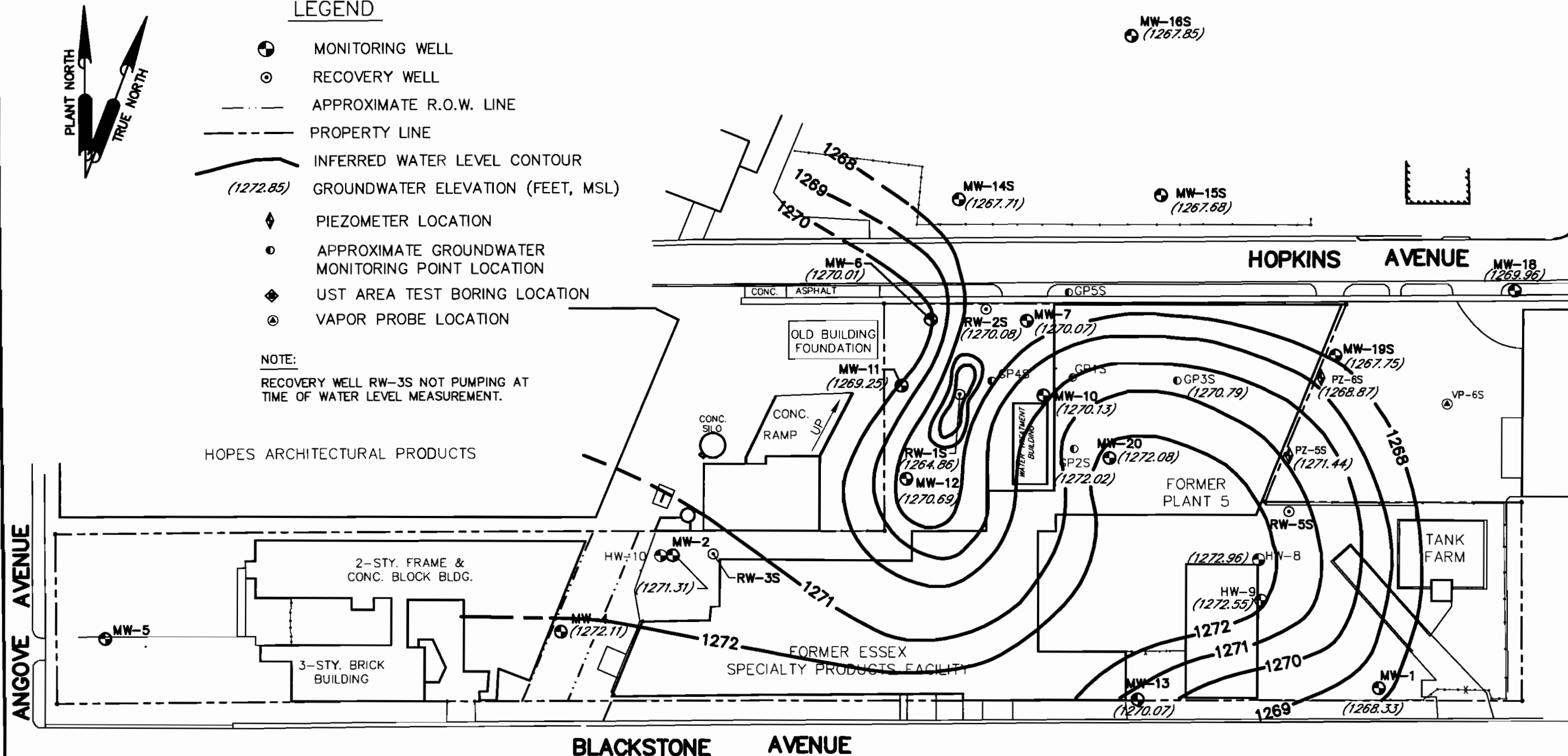


LEGEND

- MONITORING WELL
- RECOVERY WELL
- APPROXIMATE R.O.W. LINE
- PROPERTY LINE
- INFERRED WATER LEVEL CONTOUR
- GROUNDWATER ELEVATION (FEET, MSL)
- PIEZOMETER LOCATION
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- UST AREA TEST BORING LOCATION
- VAPOR PROBE LOCATION

NOTE:

RECOVERY WELL RW-3S NOT PUMPING AT TIME OF WATER LEVEL MEASUREMENT.



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2005 ANNUAL PERFORMANCE MONITORING REPORT WATER TABLE CONTOUR MAP - FEBRUARY 7, 2006

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

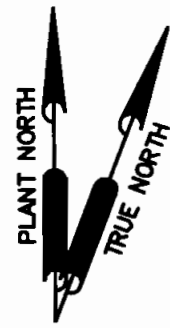
JOB NUMBER: 41567715

SCALE: AS SHOWN

FIGURE
NUMBER

7

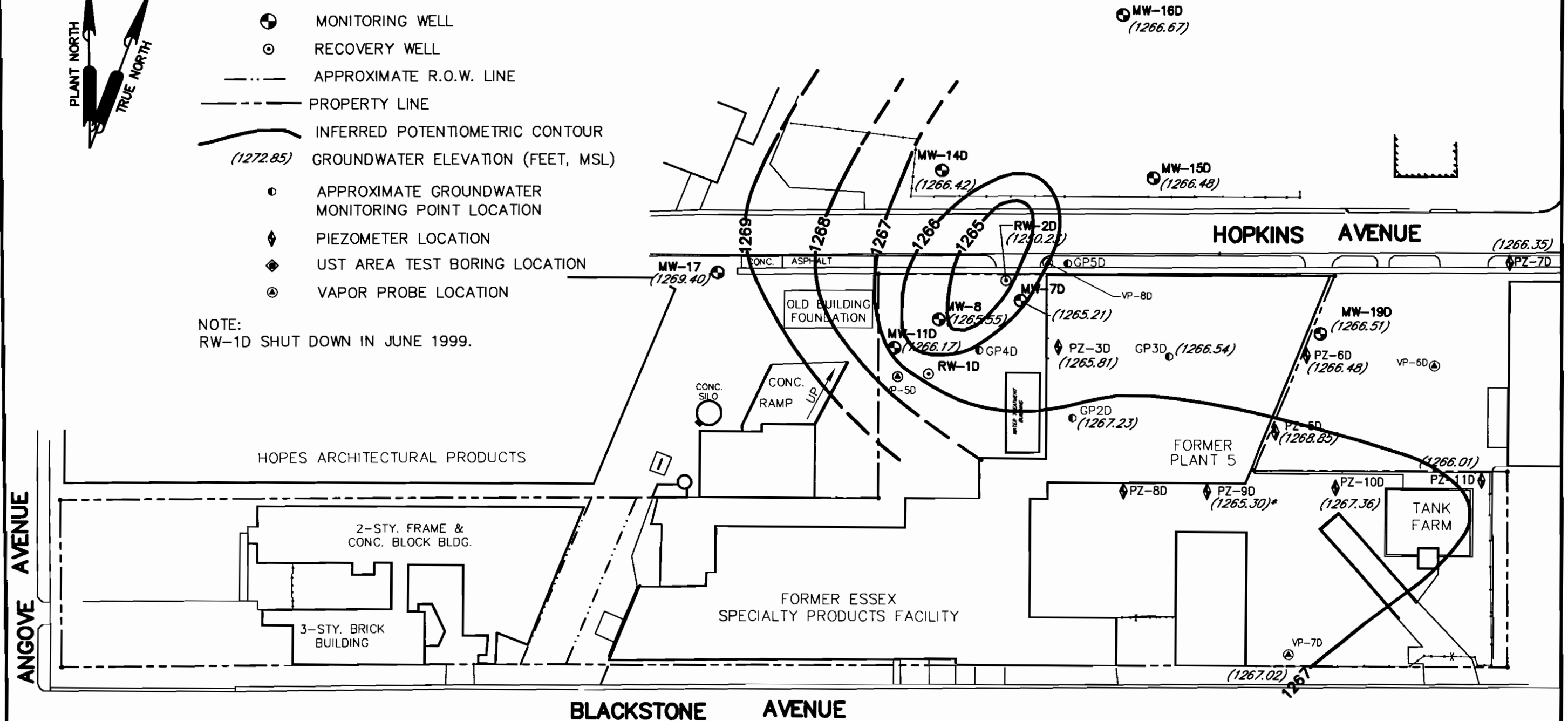
REV
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LEGEND

- MONITORING WELL
- RECOVERY WELL
- APPROXIMATE R.O.W. LINE
- PROPERTY LINE
- INFERRED POTENTIOMETRIC CONTOUR
- 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

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2005 ANNUAL PERFORMANCE MONITORING REPORT
POTENTIOMETRIC CONTOUR MAP
LOWER FINE SAND WATER BEARING ZONE - FEBRUARY 7, 2006
ESSEX/HOPE SITE JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

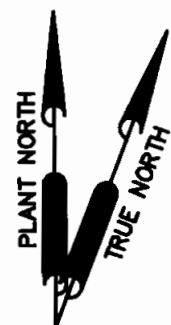
JOB NUMBER: 41567715

SCALE: AS SHOWN

FIGURE
NUMBER

8

REV
0

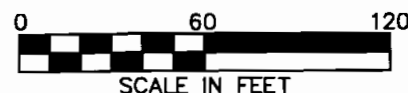
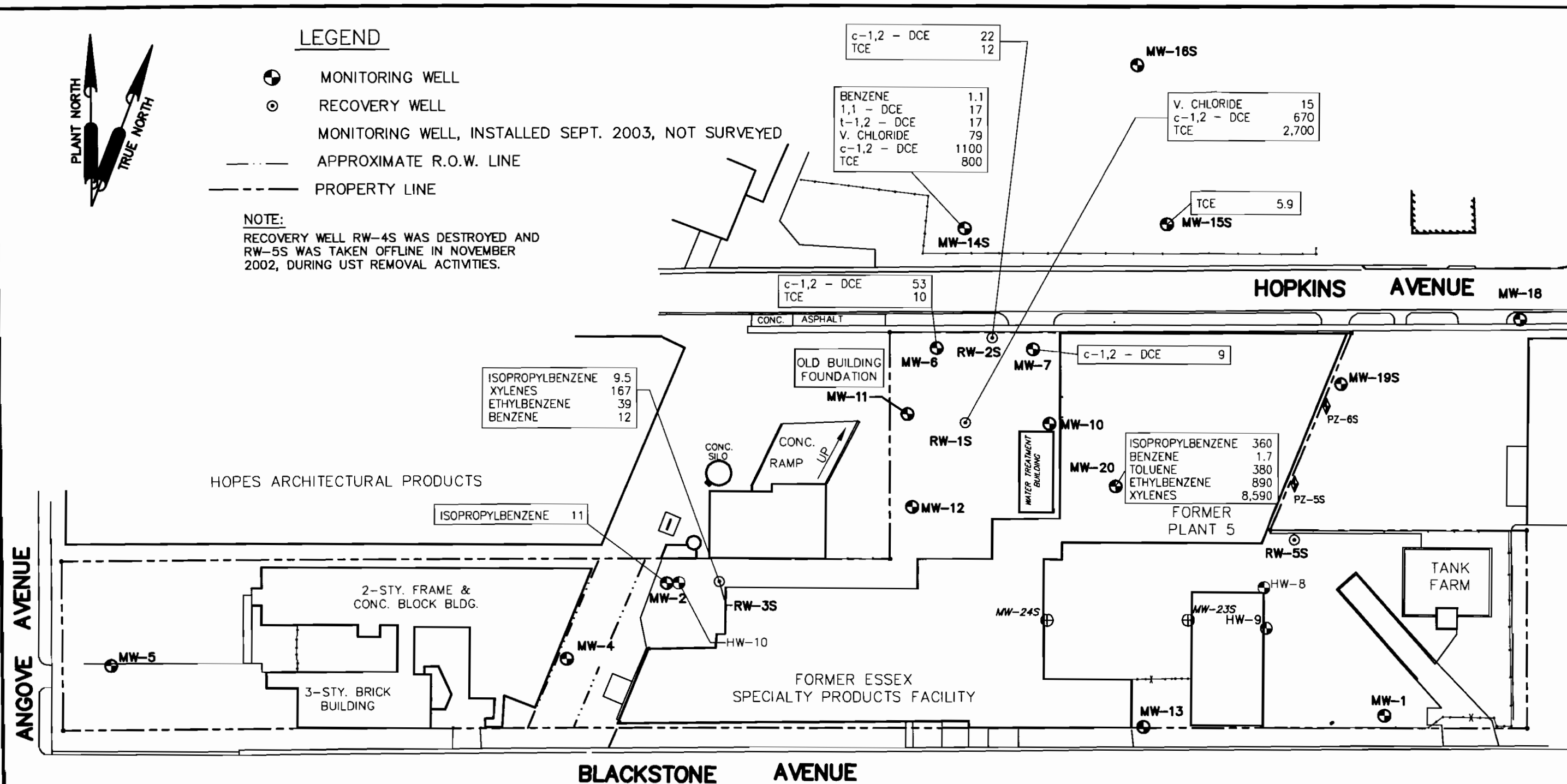


LEGEND

- ⊕ 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.



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2005 ANNUAL PERFORMANCE MONITORING REPORT SHALLOW WATER BEARING ZONE GROUNDWATER ANALYTICAL DATA FEBRUARY 2006

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

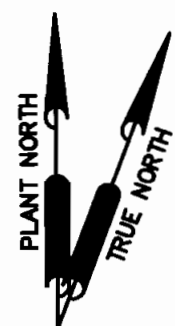
JOB NUMBER: 41567715

SCALE: AS SHOWN

FIGURE
NUMBER

9

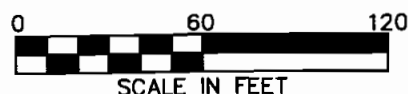
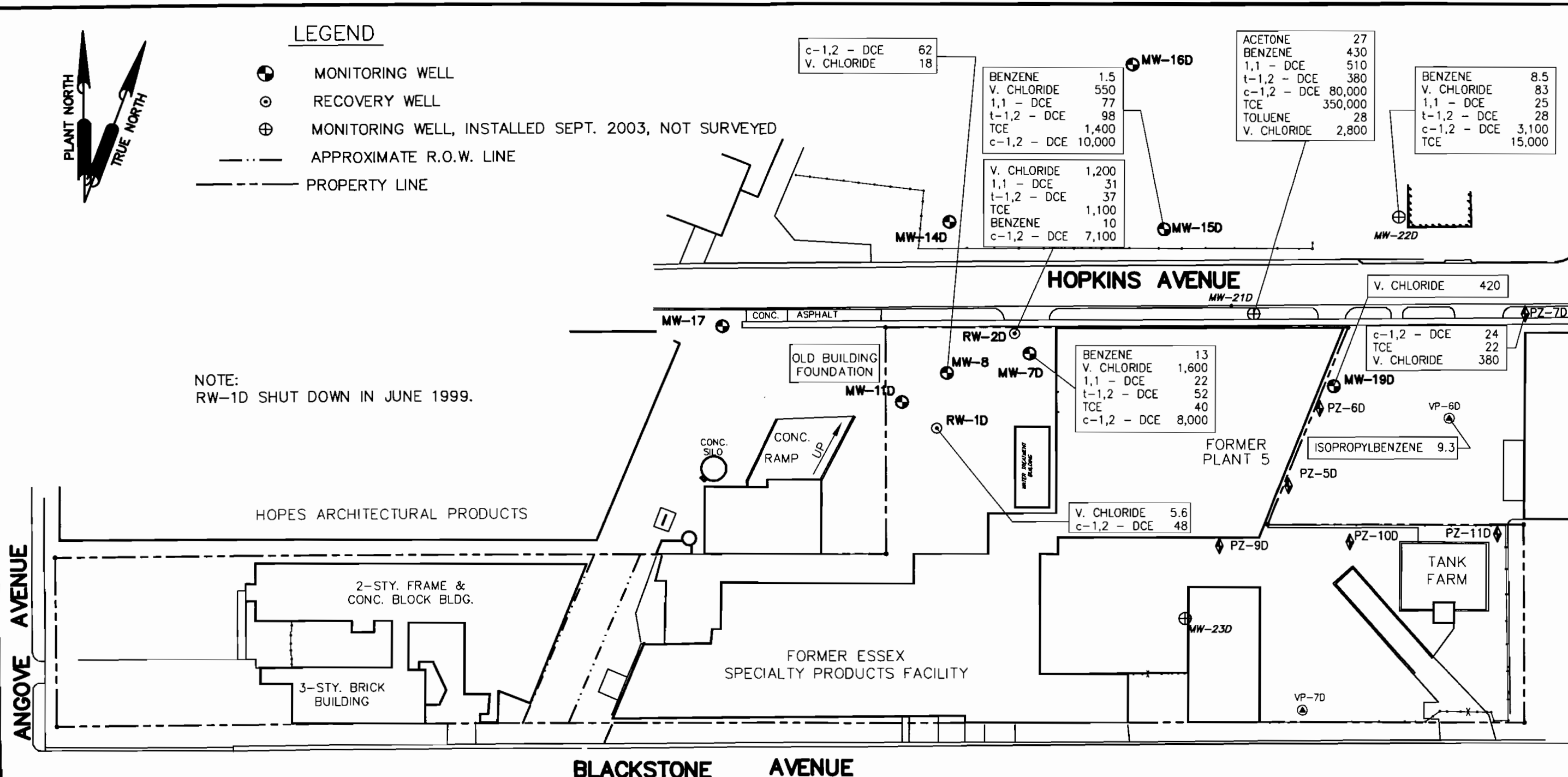
REV
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LEGEND

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

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



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.C.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1298.034 (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/GUTTER AND IS PART OF THE ORIGINAL TRAVERSE. IRON STAKES WERE SET AT THE PROPERTY CORNERS.

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PITTSBURGH, PENNSYLVANIA

2005 ANNUAL PERFORMANCE MONITORING REPORT LOWER FINE SAND WATER BEARING ZONE GROUNDWATER ANALYTICAL DATA FEBRUARY 2006

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

JOB NUMBER:41567715

SCALE: AS SHOWN

FIGURE
NUMBER

10

REV
0

APPENDIX A

GROUNDWATER EXTRACTION MONITORING DATA

APPENDIX A-1

WATER LEVEL DATA

Groundwater Extraction System Monitoring Data
2005 Water Levels
Essex/Hope Site
Jamestown, NY

Well No.	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	May 11, 2005			June 28, 2005		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)	Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
MW-1	9758.7161	10383.6499	1280.48		20.0	Shallow	13.15	NA	1267.33	13.78	NA	1266.70
MW-2	9837.1531	9959.6857	1279.87		16.0	Shallow	8.82	NA	1271.05	8.98	NA	1270.89
MW-4	9792.3277	9900.7631	1281.02	13.0	18.0	Shallow	9.74	NA	1271.28	9.96	NA	1271.06
MW-5	9789.6222	9631.761	1280.82	9.5	20.0	Shallow	NM	NA	NA	NM	NA	NA
MW-6**	9977.1197	10118.8762	1277.98			Shallow	8.92	NA	1269.06	9.05	NA	1268.93
MW-7**	9976.6467	10175.6797	1277.73	10.0	20.0	Shallow	8.71	NA	1269.02	8.86	NA	1268.87
MW-7D**	9973.2593	10174.8524	1277.8	35.0	45.0	Deep	14.03	NA	1263.77	15.24	NA	1262.56
MW-7DD**	9970.8547	10176.2698	1277.74	90.0	100.0	Glacial Till	1.71	NA	1276.03	1.93	NA	1275.81
MW-8	9959.6089	10127.6898	1277.97	39.6	49.6	Deep	13.69	NA	1264.28	14.81	NA	1263.16
MW-10	9932.4702	10185.7078	1277.94	8.5	18.5	Shallow	8.51	NA	1269.43	7.93	NA	1270.01
MW-11**	9937.9912	10101.7016	1277.75	5.0	15.0	Shallow	10.21	NA	1267.54	10.78	NA	1266.97
MW-11D	9942.3792	10101.1482	1277.85	35.0	45.0	Deep	13.02	NA	1264.83	13.96	NA	1263.89
MW-12	9883.0874	10104.9278	1278.18	4.0	14.0	Shallow	9.67	NA	1268.51	11.29	NA	1266.89
MW-13	9752.0619	10240.2934	1278.12	8.0	18.0	Shallow	8.54	NA	1269.58	10.39	NA	1267.73
MW-14S	10048.7753	10135.5198	1280.25	10.0	20.0	Shallow	13.67	NA	1266.58	13.25	NA	1267.00
MW-14D	10049.5051	10129.1897	1280.01	40.0	50.0	Deep	14.89	NA	1265.12	15.82	NA	1264.19
MW-15S	10051.8272	10254.4862	1279.55	10.0	20.0	Shallow	13.28	NA	1266.27	13.98	NA	1265.57
MW-15D	10045.5611	10255.205	1279.46	34.0	44.0	Deep	14.30	NA	1265.16	15.12	NA	1264.34
MW-16S	10146.7788	10236.8582	1279.32	7.0	17.0	Shallow	12.65	NA	1266.67	13.21	NA	1266.11

Groundwater Extraction System Monitoring Data
2005 Water Levels
Essex/Hope Site
Jamestown, NY

Well No.	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	May 11, 2005			June 28, 2005		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)	Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
MW-16D	10143.9497	10236.6005	1279.05	36.0	46.0	Deep	13.68	NA	1265.37	14.44	NA	1264.61
MW-17	9987.6315	9995.5207	1278.7			Deep	10.56	NA	1268.14	NM	NA	NA
MW-18	9994	10465	1275.59		20.0	Shallow	10.05	NA	1265.54	10.52	NA	1265.07
MW-19S	9956.1454	10358.207	1276.82	9.0	19.0	Shallow	10.41	NA	1266.41	11.02	NA	1265.80
MW-19D	9951.569	10355.9748	1276.21	34.0	44.0	Deep	10.73	NA	1265.48	11.38	NA	1264.83
MW-20	9895.0082	10224.2128	1278.64	6.5	11.5	Shallow	NM	NA	NA	7.80	NA	1270.84
MW-21D	NA	NA	NA	31.5	41.0	Deep	10.73	NA	NA	11.54	NA	NA
MW-22D	NA	NA	NA	32.5	42.0	Deep	10.54	NA	NA	11.06	NA	NA
MW-23S	NA	NA	NA	5.0	14.5	Shallow	6.03	NA	NA	NM	NA	NA
MW-23D	NA	NA	NA	28.0	37.5	Deep	Blocked	NA	NA	NM	NA	NA
MW-24S	NA	NA	NA	5.0	14.5	Shallow	7.60	NA	NA	NM	NA	NA
HW-2	NA	NA	NA			Shallow	12.10	NA	NA	NM	NA	NA
HW-4				8.0	18.0		NM	NA	NA	NM	NA	NA
HW-5				7.0	17.0		NM	NA	NA	NM	NA	NA
HW-6				6.0	16.0		NM	NA	NA	NM	NA	NA
HW-8	9834.664	10312.0885	1277.81	6.0	16.0	Shallow	5.93	NA	1271.88	6.82	NA	1270.99
HW-9	9810.5264	10313.3873	1280.78	6.0	16.0	Shallow	9.27	NA	1271.51	10.17	NA	1270.61
HW-10	9837.2976	9966.7406	1279.55	7.0	17.0	Shallow	NM	NA	NA	8.04	NA	1271.51
RW-1S	9932.8951	10135.8706	1276.06	10.5	16.0	Shallow	10.90	11.50	1265.16	10.96	11.50	1265.10

Groundwater Extraction System Monitoring Data
2005 Water Levels
Essex/Hope Site
Jamestown, NY

Well No.	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	May 11, 2005			June 28, 2005		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)	Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
RW-1D	9926.5997	10121.3968	1276.64	32.0	57.0	Deep	12.08	NM	1264.56	13.19	NM	1263.45
RW-2S**	9983.3801	10151.6403	1276.59	10.0	15.5	Shallow	12.70	12.70	1263.89	DTW at pump intake	12.70	NA
RW-2D	9983.0619	10167.3168	1276.46	27.0	42.0	Deep	26.88	36.90	1249.58	31.31	36.90	1245.15
RW-3S	9838.0594	9990.4502	1278.29	9.0	13.5	Shallow	7.70	8.80	1270.59	8.35	8.80	1269.94
RW-5S	9863.2271	10330.2425	1277.43	7.0	10.0	Shallow	6.30	NA	1271.13	6.73	NA	1270.70
GP-1S	9954.39*	10203.02*	1278.98	8.0	12.8	Shallow	NM	NA	NA	NM	NA	NA
GP-2S	9914.89*	10201.04*	1278.63	2.6	12.6	Shallow	NM	NA	NA	8.04	NA	NA
GP-2D	9914.91*	10207.84*	1278.7	30.0	34.8	Deep	NM	NA	NA	13.44	NA	NA
GP-3S	9941.13*	10264.03*	1278.87	4.0	14.0	Shallow	NM	NA	NA	10.35	NA	NA
GP-3D	9937.38*	10264.53*	1278.77	34.0	38.8	Deep	NM	NA	NA	14.38	NA	NA
GP-4S	9940.86*	10154.97*	1278.06	10.8	15.8	Shallow	NM	NA	NA	NM	NA	NA
GP-4D	9940.85*	10151.57*	1278.08	39.0	43.8	Deep	NM	NA	NA	NM	NA	NA
GP-5S	9993.54*	10200.34*	1277.44	7.0	11.8	Shallow	NM	NA	NA	NM	NA	NA
GP-5D	9993.55*	10290.21*	1277.37	36.0	40.8	Deep	NM	NA	NA	NM	NA	NA
PZ-5S	NA	NA	1276.56	5.5	12.0	Shallow	7.03	NA	1269.53	7.61	NA	1268.95
PZ-5D	NA	NA	1276.52	21.0	42.0	Deep	10.05	NA	1266.47	11.14	NA	1265.38
PZ-6S	NA	NA	1276.77	8.5	13.5	Shallow	9.59	NA	1267.18	10.04	NA	1266.73
PZ-6D	NA	NA	1276.57	25.5	45.5	Deep	10.39	NA	1266.18	11.02	NA	1265.55
PZ-7D	NA	NA	1275.83	22.0	42.0	Deep	10.87	NA	1264.96	11.54	NA	1264.29

Groundwater Extraction System Monitoring Data
2005 Water Levels
Essex/Hope Site
Jamestown, NY

Well No.	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	May 11, 2005			June 28, 2005		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)	Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
PZ-8D	NA	NA	1278.63	21.0	41.0	Deep	11.24	NA	1267.39	11.99	NA	1266.64
PZ-9D	NA	NA	1278.04	19.0	39.0	Deep	10.20	NA	1267.84	10.93	NA	1267.11
PZ-10D	NA	NA	1277.58	26.5	46.5	Deep	11.38	NA	1266.20	11.97	NA	1265.61
PZ-11D	NA	NA	1276.7	21.3	41.3	Deep	11.02	NA	1265.68	11.67	NA	1265.03
VP-5D	NA	NA	1278.2	12.5	34.3	Deep	NM	NA	NA	NM	NA	NA
VP-6S	NA	NA	1276.62	18.3	24.0	Deep upper gravel	10.65	NA	1265.97	11.26	NA	1265.36
VP-6D	NA	NA	1276.71	29.5	39.5	Deep	11.04	NA	1265.67	11.68	NA	1265.03
VP-7D	NA	NA	1278.87	20.4	39.3	Deep	12.26	NA	1266.61	12.92	NA	1265.95
VP-8D	NA	NA	1277.37	20.0	39.0	Deep	NM	NA	NA	NM	NA	NA
Notes							Groundwater conditions prior to well re-development					
NM = Not Measured							RW-2S operated in Local Mode @ 34 HZ (0.5 gpm). Water table elevation down, RW-1S and RW-3S were not pumping at time of waterlevels. Water table elevation below top of pump at RW-2S. Top probe set 1-ft above top of pump at RW-3S; adjusted probes to allow 6-in of water cycling above top of pump.					
NA = Not Applicable												
* = Estimated Coordinate												
** Wells resurveyed on 10/11/00 due to uplift of concrete from injection work.												
MW-5 TOC elev. altered from 1280.91 ft msl to 1280.82 ft msl on May 5, 2000												

APPENDIX A-2

Groundwater Extraction System Monitoring Data

APPENDIX A-2

2005 Groundwater Extraction System Monitoring Data Essex/Hope Site Jamestown, NY

Date	NPL Area - Shallow WBZ				NPL Area - L.F. Sand WBZ				AST/UST Area - Shallow WBZ		Comments
	RW-1S	RW-2S	Total		RW-1D	RW-2D	Total		RW-3S	Avg. GPM	
	Avg. GPM	Avg. GPM	Avg. GPM	GPM	Avg. GPM	Avg. GPM	Avg. GPM	GPM			
12/13/2004	0.08	1.49	1.57		Offline	2.12	2.12		0.062		
12/19/2004	0.036	0.001	0.037		Offline	1.01	1.01		0.023		
12/26/2004	0.099	0.95	1.049		Offline	2.45	2.45		0.098		
1/2/2005	0.038	0.702	0.74		Offline	1.13	1.13		0.025		
1/9/2005	0.104	1.8	1.904		Offline	2.25	2.25		0.157		
1/22/2005	0.0007	1.89	1.8907		Offline	2.51	2.51		0.159		
1/30/2005	0.0027	0.99	0.9927		Offline	2.42	2.42		0.025		
2/6/2005	0.0004	0.32	0.3204		Offline	2.36	2.36		0.018		
2/13/2005	0.001	1.18	1.181		Offline	2.31	2.31		0.055		
2/20/2005	0.004	1.71	1.714		Offline	2.3	2.3		0.064		
2/27/2005	0.001	1.47	1.471		Offline	2.24	2.24		0.037		
3/6/2005	0.0004	1.03	1.0304		Offline	2.26	2.26		0.023		
3/13/2005	0.085	1.46	1.545		Offline	2.3	2.3		0.082		
3/20/2005	0.027	1.11	1.137		Offline	2.21	2.21		0.034		
3/27/2005	0.081	1.66	1.741		Offline	1.56	1.56		0.073		
4/10/2005	0.084	1.74	1.824		Offline	0.87	0.87		0.05		
4/17/2005	0.01	1.45	1.46		Offline	2.27	2.27		0.04		
4/24/2005	0.007	1.01	1.017		Offline	1.79	1.79		0.024		
5/1/2005	0.019	1.49	1.509		Offline	2.18	2.18		0.048		

APPENDIX A-2

2005 Groundwater Extraction System Monitoring Data Essex/Hope Site Jamestown, NY

Date	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		
5/4/2005									Pumps down in AM/Blockage in system and BPU work during day. Restart pumps at 1600 RW-1s and 3s cycling
5/5/2005	0.018	1.28	1.298	Offline	1.7	1.7	0.035		
5/8/2005	0.044	1.17	1.214	Offline	1.84	1.84	0.032		
5/22/2005	0.068	0.53	0.598	Offline	2.3	2.3	0.023		
6/5/2005	0.054	0.15	0.204	Offline	2.73	2.73	0.009		
6/26/2005	0.065	0.123	0.188	Offline	1.28	1.28	0.012		System down for unknown period between 6/5 and 6/26 - BPU working on electrical lines in area
6/28/2005	0.06	0.3	0.36	Offline	2.55	2.55	0.016		RW-2s level control system inoperable - well run on manual. Adjust rate to 0.3 gpm to maintain water level above pump intake.
6/29/2005	0.05	0.22	0.27	Offline	2.23	2.23	0.022		
7/4/2005	0.041	0.093	0.134	Offline	2.21	2.21	0.015		
7/10/2005	0.024	0.021	0.045	Offline	1.5	1.5	0.007		
7/20/2005	0.047	0.024	0.071	Offline	1.3	1.3	0.027		Shut down overnight for maintenance
7/21/2005	0.027	0.27	0.297	Offline	0.84	0.84	0.012		
7/28/2005	0.067	0.27	0.337	Offline	2.35	2.35	0.035		
8/4/2005	0.076	0.57	0.646	Offline	2.34	2.34	0.022		
8/11/2005	0.048	0.12	0.168	Offline	2.29	2.29	0.017		
8/19/2005	0.062	0.34	0.402	Offline	2.24	2.24	0.02		
8/25/2005	0.065	0.37	0.435	Offline	2.17	2.17	0.03		
8/29/2005	0.053	0.16	0.213	Offline	2.11	2.11	0.02		

APPENDIX A-2

2005 Groundwater Extraction System Monitoring Data Essex/Hope Site Jamestown, NY

Date	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		
9/8/2005	0.19	1.25	1.44	Offline	2.21	2.21	0.07		
9/15/2005	0.076	0.62	0.696	Offline	2.15	2.15	0.02		
9/22/2005	0.055	0.23	0.285	Offline	2.17	2.17	0.0001		
10/6/2005	0.16	1.05	1.21	Offline	2.06	2.06	0.02		
10/13/2005	0.08	0.64	0.72	Offline	2.04	2.04	0.03		
10/20/2005	0.05	0.14	0.19	Offline	2.02	2.02	0.01		
11/10/2005	0.12	0.89	1.01	Offline	1.91	1.91	0.03		

APPENDIX B

LABORATORY ANALYTICAL DATA

APPENDIX B-1

2005 SEMI-ANNUAL RECOVERY WELL DATA



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

April 14, 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 April 5, 2005. 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 05-1774 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320.04

Pace Sample Identification	Client Sample Identification
0504-0694	RW-1S
0504-0695	RW-1D
0504-0696	RW-2S

Pace Sample Identification	Client Sample Identification
0504-0697	RW-2D
0504-0698	RW-3S
0504-0699	TRIP BLANK

General Comments: Cooler temperature 4 ° 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

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: 05-1774
Lab Sample ID: 0504-0694
Client Sample ID: RW-1S
Sample Matrix: Aqueous

Date Sampled: 03/30/2005
Date Received: 04/05/2005

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	04/08/2005	0038442-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/08/2005	0038442-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/08/2005	0038442-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	270	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/08/2005	0038442-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/08/2005	0038442-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0504-0694
Client Sample ID: RW-1S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Trichloroethene	8260B ⁽¹⁾	2100	50	ug/l	MAK	04/08/2005	0038442-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	5.9	2.0	ug/l	MAK	04/08/2005	0038442-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<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: 05-1774
 Lab Sample ID: 0504-0695
 Client Sample ID: RW-1D
 Sample Matrix: Aqueous

Date Sampled: 03/30/2005
 Date Received: 04/05/2005

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	04/08/2005	0038415-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/08/2005	0038415-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/08/2005	0038415-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	630	10	ug/l	MAK	04/08/2005	0038415-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	5.6	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/08/2005	0038415-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/08/2005	0038415-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0

(Continued)

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Lab Sample ID: 0504-0695

Client Sample ID: RW-1D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Trichloroethene	8260B ⁽¹⁾	52	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	04/08/2005	0038415-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1998, 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: 05-1774
 Lab Sample ID: 0504-0696
 Client Sample ID: RW-2S
 Sample Matrix: Aqueous

Date Sampled: 03/30/2005
 Date Received: 04/05/2005

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	04/11/2005	0038481-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/11/2005	0038481-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	45	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0504-0696
Client Sample ID: RW-2S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Trichloroethene	8260B ⁽¹⁾	400	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	04/11/2005	0038481-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<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.: 41567320.04

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

Lab Project ID: 05-1774
Lab Sample ID: 0504-0697
Client Sample ID: RW-2D
Sample Matrix: Aqueous

Date Sampled: 03/30/2005
Date Received: 04/05/2005

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	04/08/2005	0038442-1	<10
Benzene	8260B(1)	10	1.0	ug/l	MAK	04/08/2005	0038442-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	04/08/2005	0038442-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,1-Dichloroethene	8260B(1)	9.5	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	4200	50	ug/l	MAK	04/08/2005	0038442-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	27	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	04/08/2005	0038442-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	04/08/2005	0038442-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0

(Continued)

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Lab Sample ID: 0504-0697

Client Sample ID: RW-2D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	2000	100	ug/l	MAK	04/08/2005	0038442-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038442-1	<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
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 05-1774
 Lab Sample ID: 0504-0688
 Client Sample ID: RW-3S
 Sample Matrix: Aqueous

Date Sampled: 03/30/2005
 Date Received: 04/05/2005

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	04/11/2005	0038481-1	<10
Benzene	8260B(1)	5.9	1.0	ug/l	MAK	04/11/2005	0038481-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Ethylbenzene	8260B(1)	15	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0

(Continued)

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Lab Sample ID: 0504-0698
Client Sample ID: RW-3S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	04/11/2005	0038481-1	<2.0
m,p-Xylene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
o-Xylene	8260B ⁽¹⁾	5.7	5.0	ug/l	MAK	04/11/2005	0038481-1	<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: 05-1774
 Lab Sample ID: 0504-0699
 Client Sample ID: TRIP BLANK
 Sample Matrix: Aqueous

Date Sampled: 03/30/2005
 Date Received: 04/05/2005

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	04/08/2005	0038415-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/08/2005	0038415-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/08/2005	0038415-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/08/2005	0038415-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/08/2005	0038415-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0

(Continued)

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Lab Sample ID: 0504-0699
Client Sample ID: TRIP BLANK

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	04/08/2005	0038415-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/08/2005	0038415-1	<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 B

Required Client Information:

Report To: URS, Corp
Copy To: Keith DeDrill
Invoice To: URS, Corp
P.O. 501 Holiday Drive
Project Name: Pittsburgh, PA 15220
Project Number: 412-503-4669
Fax: 412-503-4669

Page: 1 of 1

To Be Completed by Face Analytical and Client Section C

Client Information (Check quote/contract):
Requested Due Date: TAT
Project Manager: 05 1774
Project #: 05 1774
Profile #: 05 1774
Requested Analysis: 05 1774

*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

CODE
DW DRINKING WATER
SW SURFACE WATER
WW WASTE WATER
P PRODUCT
SL SOIL
OL OIL
WP WASTE PRODUCT
AR AIR
OT OTHER

G-GRAB C-COMP

MATRIX CODE

SAMPLE TEMP

AT COLLECTION

Preservatives

Unpreserved
H₂SO₄
HNO₃
HCl
NaOH
Na₂SO₃
Methanol
Other

COLLECTED

START TIME

END TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

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TIME

REGULATORY AGENCY

GROUND WATER ☐ DRINKING WATER ☐

NPDES ☐ RCRA ☐

UST ☐ Other ☐

SITE LOCATION

NC ☐ SC ☐ GA ☐

Other ☐

SAMPLE CONDITION

Temp in °C 4

Received on Ice DN

Sealed Cooler YN

Samples Intact DN

Additional Comments:

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed (MM, DD / YY)

3-30-05

SEE REVERSE SIDE FOR INSTRUCTIONS



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

October 13, 2005

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on September 30, 2005. 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 05-5643 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567474

Pace Sample Identification	Client Sample Identification
0509-3498	RW-1S
0509-3499	RW-1D
0509-3500	RW-2S
0509-3501	RW-2D
0509-3502	RW-3S

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 12

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 05-5643
Lab Sample ID: 0509-3498
Client Sample ID: RW-1S
Sample Matrix: Aqueous

Date Sampled: 09/29/2005

Date Received: 09/30/2005

Client Site: Essex-Hope

Client Ref.: 41567474

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	10/06/2005	0043394-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	10/06/2005	0043394-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	670	50	ug/l	MAK	10/06/2005	0043394-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0508-3498

Client Sample ID: RW-1S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Trichloroethene	8260B ⁽¹⁾	2700	50	ug/l	MAK	10/06/2005	0043394-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	15	2.0	ug/l	MAK	10/06/2005	0043394-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<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. Mark Dowiak
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-5843
Lab Sample ID: 0509-3499
Client Sample ID: RW-1D
Sample Matrix: Aqueous

Date Sampled: 09/29/2005
Date Received: 09/30/2005

Client Site: Essex-Hope
Client Ref.: 41567474

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	10/06/2005	0043394-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	10/06/2005	0043394-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	48	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0509-3499
Client Sample ID: RW-1D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	5.6	2.0	ug/l	MAK	10/06/2005	0043394-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<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. Mark Dowiak
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-5643
Lab Sample ID: 0509-3500
Client Sample ID: RW-2S
Sample Matrix: Aqueous

Date Sampled: 09/29/2005
Date Received: 09/30/2005

Client Site: Essex-Hope
Client Ref.: 41567474

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	10/06/2005	0043394-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	10/06/2005	0043394-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	22	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0509-3500

Client Sample ID: RW-2S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Trichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	10/06/2005	0043394-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<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.
5203 Triangle Lane
Export, PA 15632
Phone: 724.733.1161
Fax: 724.327.7793

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

Lab Project ID: 05-5843
Lab Sample ID: 0509-3501
Client Sample ID: RW-2D
Sample Matrix: Aqueous

Date Sampled: 09/29/2005
Date Received: 09/30/2005

Client Site: Essex-Hope
Client Ref.: 41567474

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	10/06/2005	0043394-1	<10
Benzene	8260B(1)	10	1.0	ug/l	MAK	10/06/2005	0043394-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1-Dichloroethene	8260B(1)	31	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	7100	50	ug/l	MAK	10/06/2005	0043394-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	37	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0509-3501

Client Sample ID: RW-2D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Trichloroethene	8260B ⁽¹⁾	1100	50	ug/l	MAK	10/06/2005	0043394-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1200	100	ug/l	MAK	10/06/2005	0043394-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<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. Mark Dowiak
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-5843
Lab Sample ID: 0509-3502
Client Sample ID: RW-3S
Sample Matrix: Aqueous

Date Sampled: 09/29/2005
Date Received: 09/30/2005

Client Site: Essex-Hope
Client Ref.: 41567474

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	10/06/2005	0043394-1	<10
Benzene	8260B ⁽¹⁾	12	1.0	ug/l	MAK	10/06/2005	0043394-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Cumene	8260B ⁽¹⁾	9.5	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	39	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043394-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0

(Continued)

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Lab Sample ID: 0509-3502

Client Sample ID: RW-3S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/08/2005	0043394-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/08/2005	0043394-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/08/2005	0043394-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/08/2005	0043394-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/08/2005	0043394-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043394-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	10/06/2005	0043394-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	150	5.0	ug/l	MAK	10/08/2005	0043394-1	<5.0
o-Xylene	8260B ⁽¹⁾	17	5.0	ug/l	MAK	10/06/2005	0043394-1	<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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APPENDIX B-2

2005 ANNUAL PMP MONITORING WELL DATA



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

February 27, 2006

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on February 10, 2006. 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 06-0855 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567474

Pace Sample Identification	Client Sample Identification
0602-1264	MW-14D
0602-1265	MW-15S
0602-1266	MW-6
0602-1267	MW-8
0602-1268	MW-2
0602-1269	MW-7S
0602-1270	VP-6D
0602-1271	MW-19D
0602-1272	MW-20

Pace Sample Identification	Client Sample Identification
0602-1273	EB-01
0602-1274	MW-14S
0602-1275	MW-15D
0602-1276	MW-21D
0602-1277	MW-22D
0602-1278	MW-7D
0602-1279	DUP-01
0602-1280	TB-01

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

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

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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Pace Analytical Services, Inc.
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 Phone: 724.733.1161
 Fax: 724.327.7793

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

Lab Project ID: 06-0855
 Lab Sample ID: 0602-1264
 Client Sample ID: MW-14D
 Sample Matrix: Aqueous

Date Sampled: 02/08/2006
 Date Received: 02/10/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

(Continued)

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

Lab Sample ID: 0602-1264
 Client Sample ID: MW-14D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2008	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/17/2006	0047098-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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. Mark Dowiak
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 06-0855
 Lab Sample ID: 0602-1265
 Client Sample ID: MW-15S
 Sample Matrix: Aqueous

Date Sampled: 02/08/2006
 Date Received: 02/10/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

(Continued)

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Lab Sample ID: 0602-1265

Client Sample ID: MW-15S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	5.9	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/17/2006	0047098-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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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501 Holiday Drive, Suite 300
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Lab Project ID: 06-0855
Lab Sample ID: 0602-1266
Client Sample ID: MW-6
Sample Matrix: Aqueous

Date Sampled: 02/08/2006
Date Received: 02/10/2006

Client Site: Essex-Hope
Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	53	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

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Lab Sample ID: 0602-1266

Client Sample ID: MW-6

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	10	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/17/2006	0047098-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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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 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 06-0855
 Lab Sample ID: 0602-1267
 Client Sample ID: MW-8
 Sample Matrix: Aqueous

Date Sampled: 02/08/2006
 Date Received: 02/10/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	62	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

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Lab Sample ID: 0602-1267
Client Sample ID: MW-8

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	18	2.0	ug/l	MAK	02/17/2006	0047098-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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: 06-0855
 Lab Sample ID: 0602-1268
 Client Sample ID: MW-2
 Sample Matrix: Aqueous

Date Sampled: 02/08/2006
 Date Received: 02/10/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B(1)	11	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

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Lab Sample ID: 0602-1288
Client Sample ID: MW-2

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/17/2006	0047098-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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 15220

Lab Project ID: 06-0855
Lab Sample ID: 0602-1269
Client Sample ID: MW-7S
Sample Matrix: Aqueous

Date Sampled: 02/08/2006
Date Received: 02/10/2006

Client Site: Essex-Hope
Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	9.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

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Lab Sample ID: 0602-1269

Client Sample ID: MW-7S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/17/2006	0047098-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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.

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Lab Project ID: 06-0855
 Lab Sample ID: 0602-1270
 Client Sample ID: VP-6D
 Sample Matrix: Aqueous

Date Sampled: 02/08/2006
 Date Received: 02/10/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B(1)	9.3	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

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Lab Sample ID: 0602-1270

Client Sample ID: VP-6D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2008	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2008	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2008	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2008	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2008	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2008	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2008	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2008	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/17/2008	0047098-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2008	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2008	0047098-1	<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 15220

Lab Project ID: 06-0855
 Lab Sample ID: 0602-1271
 Client Sample ID: MW-19D
 Sample Matrix: Aqueous

Date Sampled: 02/08/2006
 Date Received: 02/10/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

(Continued)

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Lab Sample ID: 0602-1271

Client Sample ID: MW-19D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	420	20	ug/l	MAK	02/21/2006	0047123-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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: 06-0855
 Lab Sample ID: 0602-1272
 Client Sample ID: MW-20
 Sample Matrix: Aqueous

Date Sampled: 02/08/2006
 Date Received: 02/10/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B(1)	1.7	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B(1)	360	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B(1)	890	50	ug/l	MAK	02/21/2006	0047123-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

(Continued)

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Lab Sample ID: 0602-1272

Client Sample ID: MW-20

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	380	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/17/2006	0047098-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	8000	100	ug/l	MAK	02/21/2006	0047123-1	<5.0
o-Xylene	8260B ⁽¹⁾	590	50	ug/l	MAK	02/21/2006	0047123-1	<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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URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 06-0855
Lab Sample ID: 0602-1273
Client Sample ID: EB-01
Sample Matrix: Aqueous

Date Sampled: 02/09/2006
Date Received: 02/10/2006

Client Site: Essex-Hope
Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	21	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

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Lab Sample ID: 0602-1273

Client Sample ID: EB-01

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/17/2006	0047098-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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. Mark Dowiak
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 08-0855
 Lab Sample ID: 0802-1274
 Client Sample ID: MW-14S
 Sample Matrix: Aqueous

Date Sampled: 02/09/2006
 Date Received: 02/10/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B ⁽¹⁾	1.1	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	17	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1100	10	ug/l	MAK	02/21/2006	0047123-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	17	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

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Lab Sample ID: 0602-1274

Client Sample ID: MW-14S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	800	10	ug/l	MAK	02/21/2006	0047123-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	79	2.0	ug/l	MAK	02/17/2006	0047098-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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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 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 06-0855
 Lab Sample ID: 0602-1275
 Client Sample ID: MW-15D
 Sample Matrix: Aqueous

Date Sampled: 02/09/2006
 Date Received: 02/10/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B(1)	1.5	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B(1)	77	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	10000	50	ug/l	MAK	02/21/2006	0047123-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	98	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

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Lab Sample ID: 0602-1275
Client Sample ID: MW-15D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	1400	50	ug/l	MAK	02/21/2006	0047123-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	550	100	ug/l	MAK	02/21/2006	0047123-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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: 06-0855
Lab Sample ID: 0602-1276
Client Sample ID: MW-21D
Sample Matrix: Aqueous

Date Sampled: 02/09/2006
Date Received: 02/10/2006

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles:

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	27	10	ug/l	MAK	02/17/2006	0047098-1	<10
Benzene	8260B(1)	430	100	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B(1)	510	100	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	80000	5000	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	380	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

(Continued)

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Lab Sample ID: 0602-1276

Client Sample ID: MW-21D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	28	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	350000	5000	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	2800	200	ug/l	MAK	02/17/2006	0047098-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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: 06-0855
 Lab Sample ID: 0602-1277
 Client Sample ID: MW-22D
 Sample Matrix: Aqueous

Date Sampled: 02/09/2006
 Date Received: 02/10/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B ⁽¹⁾	8.5	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	25	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3100	100	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	28	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

(Continued)

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Lab Sample ID: 0602-1277
Client Sample ID: MW-22D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	15000	100	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	83	2.0	ug/l	MAK	02/17/2006	0047098-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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: 06-0855
Lab Sample ID: 0602-1278
Client Sample ID: MW-7D
Sample Matrix: Aqueous

Date Sampled: 02/09/2006
Date Received: 02/10/2006

Client Site: Essex-Hope
Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B(1)	11	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B(1)	19	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	7700	50	ug/l	MAK	02/21/2006	0047123-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	32	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

(Continued)

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Lab Sample ID: 0602-1278

Client Sample ID: MW-7D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	37	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1500	100	ug/l	MAK	02/21/2006	0047123-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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: 06-0855
 Lab Sample ID: 0602-1279
 Client Sample ID: DUP-01
 Sample Matrix: Aqueous

Date Sampled: 02/09/2006
 Date Received: 02/10/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B ⁽¹⁾	13	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	22	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	8000	50	ug/l	MAK	02/21/2006	0047123-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	52	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0602-1279

Client Sample ID: DUP-01

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	40	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1600	100	ug/l	MAK	02/21/2006	0047123-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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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 5203 Triangle Lane
 Export, PA 15632
 Phone: 724.733.1161
 Fax: 724.327.7793

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

Lab Project ID: 06-0855
 Lab Sample ID: 0602-1280
 Client Sample ID: TB-01
 Sample Matrix: Aqueous

Date Sampled: 02/09/2006
 Date Received: 02/10/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/17/2006	0047098-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	02/17/2006	0047098-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/17/2006	0047098-1	<10
Methylene chloride	8260B(1)	37	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0

(Continued)

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

Lab Sample ID: 0602-1280

Client Sample ID: TB-01

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/17/2006	0047098-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/17/2006	0047098-1	<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 A

Required Client Information:

Company

Address

City/State/Zip

Phone

Fax

Requested Due Date/TAT:

Section B

Required Project Information:

Report To:

Copy To:

Purchase Order No.:

Project Name:

Project Number:

Section C

Invoice Information:

Attention:

Company Name:

Address:

Pace Quote Reference:

Pace Project Manager:

Pace Profile #:

REGULATORY AGENCY

☐ NPDES

☐ GROUND WATER

☐ RCRA

☐ DRINKING WATER

☐ Other

SITE LOCATION

☐ GA ☐ IL ☐ IN ☐ MI ☐ MN ☐ NC

☐ OH ☐ SC ☐ WI ☐ OTHER

Section D Required Client Information

SAMPLE ID

One Character per box.

(A-Z, 0-9 / -)

Samples IDs MUST BE UNIQUE

Valid Matrix Codes

DRINKING WATER

WASTE WATER

PRODUCT

SOIL/SOLID

OIL

AIR

WASTE

OTHER

TISSUE

SAMPLE TYPE

Q-GRAB

P-GRAB

C-GRAB

COMPOSITE

DATE

TIME

GRAB

COMPOSITE

DATE

TIME

OF CONTAINERS

AT COLLECTION

Preservatives

Unpreserved

H₂SO₄

HNO₃

HCl

NaOH

Na₂S₂O₃

Methanol

Other

Filtered (Y/N)

Requested Analysis:

VOCs 0200

02-1276

77

78

79

80

02-1276

77

78

79

80

Additional Comments:

RELINQUISHED BY / AFFILIATION DATE TIME

ACCEPTED BY / AFFILIATION DATE TIME

SAMPLE CONDITION

Initial

Samples

Sealed Cooler

Custody

on Ice

Received

Temp in °C

SAMPLER NAME AND SIGNATURE

PRINT NAME OF SAMPLER

BEAD CHROSUNE / VALERIE STBETO

SIGNATURE OF SAMPLER

DATE SIGNED (MM/DD/YY)

2-7-06

SEE REVERSE SIDE FOR INSTRUCTIONS



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

March 2, 2006

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on February 14, 2006. 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 06-0918 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567474

Pace Sample Identification	Client Sample Identification
0602-1629	PZ-11D
0602-1630	PZ-7D
0602-1631	TB-01

General Comments: Cooler temperature 4 ° 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 8

REPORT OF LABORATORY ANALYSIS

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 Export, PA 15632
 Phone: 724.733.1161
 Fax: 724.327.7793

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

Lab Project ID: 06-0918
 Lab Sample ID: 0602-1629
 Client Sample ID: PZ-11D
 Sample Matrix: Aqueous

Date Sampled: 02/13/2006
 Date Received: 02/14/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/22/2006	0047193-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	02/22/2006	0047193-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/22/2006	0047193-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/22/2006	0047193-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/22/2006	0047193-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0

(Continued)

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

Lab Sample ID: 0602-1629

Client Sample ID: PZ-11D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/22/2006	0047193-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<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. Mark Dowiak
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 06-0918
Lab Sample ID: 0602-1830
Client Sample ID: PZ-7D
Sample Matrix: Aqueous

Date Sampled: 02/13/2006
Date Received: 02/14/2006

Client Site: Essex-Hope
Client Ref.: 41567474

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	02/22/2006	0047193-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	02/22/2006	0047193-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/22/2006	0047193-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	24	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/22/2006	0047193-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/22/2006	0047193-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0

(Continued)

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Lab Sample ID: 0602-1630
Client Sample ID: PZ-7D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Trichloroethene	8260B ⁽¹⁾	22	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	380	20	ug/l	MAK	02/23/2006	0047232-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<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. Mark Dowiak
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 06-0918
 Lab Sample ID: 0602-1631
 Client Sample ID: TB-01
 Sample Matrix: Aqueous

Date Sampled: 02/13/2006
 Date Received: 02/14/2006

Client Site: Essex-Hope
 Client Ref.: 41567474

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	02/22/2006	0047193-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	02/22/2006	0047193-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/22/2006	0047193-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/22/2006	0047193-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/22/2006	0047193-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0

(Continued)

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Lab Sample ID: 0602-1631
Client Sample ID: TB-01

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/22/2006	0047193-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/22/2006	0047193-1	<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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APPENDIX B-3

2005 MONTHLY POTW INFLUENT/EFFLUENT SAMPLE DATA



Pace Analytical Services, Inc.
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February 8, 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 February 1, 2005. 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 05-0562 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320.04

Pace Sample Identification	Client Sample Identification
0502-0376	Pre-Carb
0502-0377	Primary Effluent
0502-0378	Post-Carb
0502-0379	Trip Blank

General Comments: Cooler temperature 1 ° 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
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 05-0562
Lab Sample ID: 0502-0376
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 01/30/2005
Date Received: 02/01/2005

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	02/04/2005	0036931-1	<10
Benzene	8260B(1)	7.1	1.0	ug/l	MAK	02/04/2005	0036931-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/04/2005	0036931-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1-Dichloroethene	8260B(1)	16	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	3500	50	ug/l	MAK	02/04/2005	0036931-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	26	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/04/2005	0036931-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/04/2005	0036931-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0

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Lab Sample ID: 0502-0376

Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Trichloroethene	8260B ⁽¹⁾	1100	50	ug/l	MAK	02/04/2005	0036931-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	560	100	ug/l	MAK	02/04/2005	0036931-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<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: 05-0562
 Lab Sample ID: 0502-0377
 Client Sample ID: Primary Effluent
 Sample Matrix: Aqueous

Date Sampled: 01/30/2005
 Date Received: 02/01/2005

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	02/04/2005	0036931-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	02/04/2005	0036931-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/04/2005	0036931-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	7.9	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/04/2005	0036931-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/04/2005	0036931-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0502-0377
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	750	20	ug/l	MAK	02/04/2005	0036931-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<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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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: 05-0562
 Lab Sample ID: 0502-0378
 Client Sample ID: Post-Carb
 Sample Matrix: Aqueous

Date Sampled: 01/30/2005
 Date Received: 02/01/2005

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	02/04/2005	0036931-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	02/04/2005	0036931-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/04/2005	0036931-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	150	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/04/2005	0036931-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/04/2005	0036931-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0

(Continued)

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Lab Sample ID: 0502-0378

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	4.1	2.0	ug/l	MAK	02/04/2005	0036931-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<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 0502-0378 was composited from 4 samples prior to 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: 05-0582
 Lab Sample ID: 0502-0379
 Client Sample ID: Trip Blank
 Sample Matrix: Aqueous

Date Sampled: 01/30/2005
 Date Received: 02/01/2005

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	02/04/2005	0036931-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	02/04/2005	0036931-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/04/2005	0036931-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/04/2005	0036931-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/04/2005	0036931-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0502-0379

Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/04/2005	0036931-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/04/2005	0036931-1	<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 B

Required Client Information:
Report To: Keith Dodrill
Copy To: _____
Invoice To: _____
P.O. _____
Project Name: Essex-Hope
Project Number: 41567320.04

Page: 805024 of _____

Section C

Required Client Information:
Company: URS Corp
Address: Foster Plaza 4
501 Holiday Drive Suite 300
Pittsburgh, PA 15220
Phone: 412-503-4669 Fax: _____
Project #: 05-0562
Profile #: _____
Requested Analysis: _____

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

Section D Required Client Information.

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

Sample IDs MUST BE UNIQUE

ITEM #	1	2	3	4	5	6	7	8	9	10	11	12
1	P	R	E	C	A	R	B					
2	P	R	I	M	A	R	E	F				
3	P	O	S	T	-	C	A	R	B			
4	P	O	S	T	-	C	A	R	B			
5	P	O	S	T	-	C	A	R	B			
6	P	O	S	T	-	C	A	R	B			
7	T	R	I	P	-	B	L	A	N	K		

ITEM #	DATE COLLECTED	TIME COLLECTED	# Containers	Preservatives							Remarks / Lab ID	
				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other
1	1-30-05	0600	3				X					02-0376
2		0600										-0377
3		0600										-0378
4		0630										
5		0700										
6		0730										02-0379

REGULATORY AGENCY
☐ NC ☐ SC ☐ GA ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ Other ☐ RCRA ☐ Other

SAMPLE CONDITION
 Temp in °C: 10
 Received on Ice: YN
 Sealed Cooler: YN
 Samples Intact: YN

SAMPLE NOTES
 Combine 4 Post-Carb Samples into 1 for Analysis

HELD/QUISHED BY / AFFILIATION
 Date: 1-31-05 Time: 1600
 Signature: John S. Ross Affiliation: Fed Express

SAMPLE NAME AND SIGNATURE
 PRINT Name of SAMPLER: John S. Ross
 SIGNATURE of SAMPLER: John S. Ross
 DATE Signed (MM/DD/YY): 1-30-05

March 10, 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 March 1, 2005. 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 05-1130 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320.04

Pace Sample Identification	Client Sample Identification
0503-0470	Pre-Carb
0503-0471	Primary Effluent
0503-0472	Post-Carb
0503-0473	Trip Blank

General Comments: Cooler temperature 1 ° 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
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-1130
Lab Sample ID: 0503-0470
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 02/27/2005
Date Received: 03/01/2005

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	03/08/2005	0037570-1	<10
Benzene	8260B ⁽¹⁾	5.8	1.0	ug/l	MAK	03/08/2005	0037570-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/08/2005	0037570-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3000	50	ug/l	MAK	03/08/2005	0037570-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/08/2005	0037570-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/08/2005	0037570-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0503-0470

Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Trichloroethene	8260B ⁽¹⁾	760	50	ug/l	MAK	03/08/2005	0037570-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	480	100	ug/l	MAK	03/08/2005	0037570-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<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.: 41567320.04

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

Lab Project ID: 05-1130
Lab Sample ID: 0503-0471
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 02/27/2005
Date Received: 03/01/2005

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	03/08/2005	0037570-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	03/08/2005	0037570-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	03/08/2005	0037570-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	110	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	03/08/2005	0037570-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	03/08/2005	0037570-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0

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Lab Sample ID: 0503-0471
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Trichloroethene	8260B ⁽¹⁾	7.6	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	740	20	ug/l	MAK	03/08/2005	0037570-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<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: 05-1130
Lab Sample ID: 0503-0472
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 02/27/2005
Date Received: 03/01/2005

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	03/08/2005	0037570-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	03/08/2005	0037570-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	03/08/2005	0037570-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	93	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	03/08/2005	0037570-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	03/08/2005	0037570-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0

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Lab Sample ID: 0503-0472
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	41	2.0	ug/l	MAK	03/08/2005	0037570-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<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 4 vials prior to 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: 05-1130
Lab Sample ID: 0503-0473
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 02/27/2005
Date Received: 03/01/2005

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	03/08/2005	0037570-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/08/2005	0037570-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/08/2005	0037570-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/08/2005	0037570-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/08/2005	0037570-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0

(Continued)

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Lab Sample ID: 0503-0473
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	03/08/2005	0037570-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2005	0037570-1	<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.
5203 Triangle Lane
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Fax: 724.327.7793

April 14, 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 April 5, 2005. 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 05-1775 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320.04

Pace Sample Identification	Client Sample Identification
0504-0700	Pre-Carb
0504-0701	Primary Effluent
0504-0702	Post-Carb
0504-0703	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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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-1775
Lab Sample ID: 0504-0700
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 03/30/2005
Date Received: 04/05/2005

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	04/11/2005	0038481-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/11/2005	0038481-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	370	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0504-0700

Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Trichloroethene	8260B ⁽¹⁾	630	50	ug/l	MAK	04/11/2005	0038481-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	62	2.0	ug/l	MAK	04/11/2005	0038481-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<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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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: 05-1775
Lab Sample ID: 0504-0701
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 03/30/2005
Date Received: 04/05/2005

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	04/11/2005	0038481-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	04/11/2005	0038481-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	370	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0504-0701
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	610	20	ug/l	MAK	04/11/2005	0038481-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<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: 05-1775
Lab Sample ID: 0504-0702
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 03/30/2005
Date Received: 04/05/2005

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	04/11/2005	0038481-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	04/11/2005	0038481-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	63	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0

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REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0504-0702

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	210	2.0	ug/l	MAK	04/11/2005	0038481-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<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 0405-0702 was composited from 4 samples prior to 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: 05-1775
Lab Sample ID: 0504-0703
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 03/30/2005
Date Received: 04/05/2005

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	04/11/2005	0038481-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	04/11/2005	0038481-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	04/11/2005	0038481-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0504-0703

Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	04/11/2005	0038481-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/11/2005	0038481-1	<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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To Be Completed by Face Analytical and Client
Section C

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

Required Client Information: Section B
Report To: Keith Dodrill

Required Client Information: Section A
Company: URS Corp.
Address: Foster Plaza 4
501 Holiday Drive Suite 300
Pittsburgh, PA 15220
Phone: 412-503-4669 Fax: 412-503-4669

Project Manager:
Project #:
Profile #:
Requested Analysis:

*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.

Project Name: Essex Hope
Project Number: 412-7320.04

Section D
Valid Matrix Codes
MATRIX CODE
GROUND WATER
SURFACE WATER
WASTE WATER
PRODUCT
SOIL
OIL
AIR
OTHER

ITEM #	Section D Required Client Information:		Valid Matrix Codes MATRIX DRINKING WATER GROUNDWATER SURFACE WATER WASTE WATER PRODUCT SOIL OIL WIFE AIR OTHER	MATRIX CODE	G=GRAB C-COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives							Remarks / Lab ID	
	SAMPLE ID One character per box. (A-Z, 0-9 / -)	Sample IDs MUST BE UNIQUE				DATE	TIME	DATE	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other
1			PRE-CARB																
2	RR1-MARV-EFFLUENT																		0701
3	POST-CARB																		0702
4	POST-CARB																		
5	POST-CARB																		
6	POST-CARB																		
7	TRIP-BLANK																		0703
8																			
9																			
10																			
11																			
12																			

SITE LOCATION			REGULATORY AGENCY			RELINQUISHED BY / AFFILIATION			DATE			TIME		
☐ NC	☐ SC	☐ GA	☐ NPDES	☐ GROUND WATER	☐ DRINKING WATER	John S. Korn - URS	4405	1700	Fed-Ex	4405	1700	4405	1700	4405
☐ Other	☐ RCRA	☐ UST	☐ NPDES	☐ GROUND WATER	☐ DRINKING WATER	Fed Ex								

SAMPLE CONDITION

Temp in °C 2

Received on Ice ☒ YN

Sealed Cooler ☒ YN

Samples Intact ☒ YN

Additional Comments:

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: John Ross
SIGNATURE of SAMPLER: John S. Korn
DATE Signed: 3-30-05

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev 0304

May 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 May 3, 2005. 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 05-2449 when inquiring about this report.

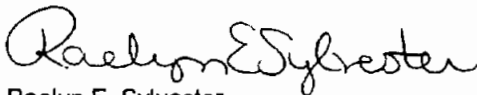
Client Site: Essex-Hope
Client Ref.: 41567320.04

Pace Sample Identification	Client Sample Identification
0505-0531	Pre-Carb
0505-0532	Primary Effluent
0505-0533	Post-Carb
0505-0534	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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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-2449
Lab Sample ID: 0505-0531
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 04/30/2005
Date Received: 05/03/2005

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	05/03/2005	0039097-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	05/03/2005	0039097-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	05/03/2005	0039097-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	940	50	ug/l	MAK	05/03/2005	0039097-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	05/03/2005	0039097-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	05/03/2005	0039097-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0505-0531
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Trichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	630	100	ug/l	MAK	05/03/2005	0039097-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<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: 05-2449
Lab Sample ID: 0505-0532
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 04/30/2005
Date Received: 05/03/2005

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	05/03/2005	0039097-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	05/03/2005	0039097-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	05/03/2005	0039097-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	980	50	ug/l	MAK	05/03/2005	0039097-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	05/03/2005	0039097-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	05/03/2005	0039097-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0

(Continued)

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Lab Sample ID: 0505-0532
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Trichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	650	100	ug/l	MAK	05/03/2005	0039097-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<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: 05-2449
Lab Sample ID: 0505-0533
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 04/30/2005
Date Received: 05/03/2005

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	05/03/2005	0039097-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	05/03/2005	0039097-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	05/03/2005	0039097-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	72	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	05/03/2005	0039097-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	05/03/2005	0039097-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0505-0533
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Trichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Vinyl chloride	8260B(1)	560	10	ug/l	MAK	05/04/2005	0039118-1	<2.0
m,p-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
o-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<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 0505-0533 was composited from 4 samples prior to 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: 05-2449
Lab Sample ID: 0505-0534
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 04/30/2005
Date Received: 05/03/2005

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	05/03/2005	0039097-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	05/03/2005	0039097-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	05/03/2005	0039097-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	05/03/2005	0039097-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	05/03/2005	0039097-1	<10
Methylene chloride	8260B(1)	13	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0

(Continued)

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Lab Sample ID: 0505-0534
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	05/03/2005	0039097-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2005	0039097-1	<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.
5203 Triangle Lane
Export, PA 15632
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Fax: 724.327.7793

June 13, 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 June 1, 2005. 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 05-3002 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567474.40000

Pace Sample Identification	Client Sample Identification
0506-0509	Pre-Carb
0506-0510	Primary Effluent
0506-0511	Post-Carb
0506-0512	Trip Blank

General Comments: Cooler temperature 4 ° 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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Pace Analytical Services, Inc.
 5203 Triangle Lane
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 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: 05-3002
 Lab Sample ID: 0506-0509
 Client Sample ID: Pre-Carb
 Sample Matrix: Aqueous

Date Sampled: 05/28/2005
 Date Received: 06/01/2005

Client Site: Essex-Hope
 Client Ref.: 41567474.40000

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	06/03/2005	0039980-1	<10
Benzene	8260B ⁽¹⁾	9.8	1.0	ug/l	MAK	06/03/2005	0039980-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/03/2005	0039980-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	24	5.0	ug/l	MAK	08/03/2005	0039980-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	5200	50	ug/l	MAK	06/03/2005	0039980-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	25	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/03/2005	0039980-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/03/2005	0039980-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0

(Continued)

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

Lab Sample ID: 0506-0509
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Trichloroethene	8260B ⁽¹⁾	1300	50	ug/l	MAK	06/03/2005	0039980-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	890	100	ug/l	MAK	06/03/2005	0039980-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<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.: 41567474.40000

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

Lab Project ID: 05-3002
Lab Sample ID: 0508-0510
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 05/28/2005
Date Received: 06/01/2005

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	06/03/2005	0039980-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	06/03/2005	0039980-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/03/2005	0039980-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1400	50	ug/l	MAK	06/03/2005	0039980-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/03/2005	0039980-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/03/2005	0039980-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0506-0510

Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Trichloroethene	8260B ⁽¹⁾	20	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	820	100	ug/l	MAK	06/03/2005	0039980-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<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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Pace Analytical Services, Inc.
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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: 05-3002
 Lab Sample ID: 0506-0511
 Client Sample ID: Post-Carb
 Sample Matrix: Aqueous

Date Sampled: 05/28/2005
 Date Received: 06/01/2005

Client Site: Essex-Hope
 Client Ref.: 41567474.40000

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	06/03/2005	0039980-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	06/03/2005	0039980-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	06/03/2005	0039980-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	71	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	06/03/2005	0039980-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	06/03/2005	0039980-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0506-0511
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	920	20	ug/l	MAK	06/03/2005	0039980-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1998, 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 0506-0511 was composited from 4 samples prior to 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: 05-3002
Lab Sample ID: 0506-0512
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 05/28/2005
Date Received: 06/01/2005

Client Site: Essex-Hope
Client Ref.: 41567474.40000

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	06/03/2005	0039980-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	06/03/2005	0039980-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/03/2005	0039980-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/03/2005	0039980-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/03/2005	0039980-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0

(Continued)

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Lab Sample ID: 0506-0512
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	06/03/2005	0039980-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/03/2005	0039980-1	<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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July 13, 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 June 29, 2005. 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 05-3668 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567474.40000

Pace Sample Identification	Client Sample Identification
0506-3214	Pre-Carb
0506-3215	Primary Effluent
0506-3216	Post-Carb
0506-3217	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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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-3668
Lab Sample ID: 0506-3214
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 06/28/2005
Date Received: 06/29/2005

Client Site: Essex-Hope
Client Ref.: 41567474.40000

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	07/05/2005	0040892-1	<10
Benzene	8260B ⁽¹⁾	9.9	1.0	ug/l	MAK	07/05/2005	0040892-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/05/2005	0040892-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	28	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	4800	50	ug/l	MAK	07/05/2005	0040892-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	37	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/05/2005	0040892-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/05/2005	0040892-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0

(Continued)

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Lab Sample ID: 0506-3214

Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Trichloroethene	8260B ⁽¹⁾	1200	50	ug/l	MAK	07/05/2005	0040892-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	770	100	ug/l	MAK	07/05/2005	0040892-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<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.: 41567474.40000

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

Lab Project ID: **05-3668**
Lab Sample ID: **0506-3215**
Client Sample ID: **Primary Effluent**
Sample Matrix: **Aqueous**

Date Sampled: **06/28/2005**
Date Received: **06/29/2005**

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8280B ⁽¹⁾	<10	10	ug/l	MAK	07/05/2005	0040892-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/05/2005	0040892-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Bromoform	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Bromomethane	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
2-Butanone	8280B ⁽¹⁾	<10	10	ug/l	MAK	07/05/2005	0040892-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Carbon Tetrachloride	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chlorobenzene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chloroethane	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Cumene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Dibromochloromethane	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,3-Dichlorobenzene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,2-Dichloroethane	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	7.9	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2000	50	ug/l	MAK	07/05/2005	0040892-1	<5.0
trans-1,2-Dichloroethene	8280B ⁽¹⁾	12	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
2-Hexanone	8280B ⁽¹⁾	<10	10	ug/l	MAK	07/05/2005	0040892-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/05/2005	0040892-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0

(Continued)

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Lab Sample ID: 0506-3215
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Trichloroethene	8260B ⁽¹⁾	45	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	850	100	ug/l	MAK	07/05/2005	0040892-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<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: 05-3668
 Lab Sample ID: 0506-3218
 Client Sample ID: Post-Carb
 Sample Matrix: Aqueous

Date Sampled: 06/28/2005
 Date Received: 06/29/2005

Client Site: Essex-Hope
 Client Ref.: 41567474.40000

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	07/05/2005	0040892-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/05/2005	0040892-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/05/2005	0040892-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	68	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/05/2005	0040892-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/05/2005	0040892-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0

(Continued)

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Lab Sample ID: 0506-3216
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1000	20	ug/l	MAK	07/05/2005	0040892-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<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 4 vials prior to 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: 05-3868
 Lab Sample ID: 0506-3217
 Client Sample ID: Trip Blank
 Sample Matrix: Aqueous

Date Sampled: 06/28/2005
 Date Received: 06/29/2005

Client Site: Essex-Hope
 Client Ref.: 41567474.40000

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	07/05/2005	0040892-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	07/05/2005	0040892-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	07/05/2005	0040892-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	07/05/2005	0040892-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	07/05/2005	0040892-1	<10
Methylene chloride	8260B(1)	9.2	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0

(Continued)

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Lab Sample ID: 0506-3217

Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	07/05/2005	0040892-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/05/2005	0040892-1	<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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August 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 July 29, 2005. 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 05-4196 when inquiring about this report.

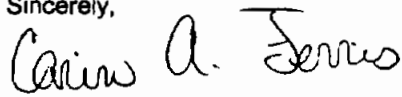
Client Site: Essex-Hope
Client Ref.: 41567474.40000

Pace Sample Identification	Client Sample Identification
0507-2762	Pre-Carb
0507-2763	Primary Effluent
0507-2764	Post-Carb
0507-2765	Trip Blank

General Comments: Cooler temperature 1 ° C upon receipt. Ice was present. Sample 0507-2764 was composited from 4 samples prior to analysis.

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 10

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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: 05-4196
Lab Sample ID: 0507-2762
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 07/28/2005
Date Received: 07/29/2005

Client Site: Essex-Hope
Client Ref.: 41567474.40000

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	08/04/2005	0041758-1	<10
Benzene	8260B ⁽¹⁾	9.9	1.0	ug/l	MAK	08/04/2005	0041758-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	23	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	5300	50	ug/l	MAK	08/04/2005	0041758-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	41	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0

(Continued)

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Lab Sample ID: 0507-2762

Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Trichloroethene	8260B ⁽¹⁾	1000	50	ug/l	MAK	08/04/2005	0041758-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	640	100	ug/l	MAK	08/04/2005	0041758-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<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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Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-4196
Lab Sample ID: 0507-2763
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 07/28/2005
Date Received: 07/29/2005

Client Site: Essex-Hope
Client Ref.: 41567474.40000

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	08/04/2005	0041758-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	08/04/2005	0041758-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1-Dichloroethene	8260B(1)	7.2	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	2400	50	ug/l	MAK	08/04/2005	0041758-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	8.6	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0

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Lab Sample ID: 0507-2763
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Trichloroethene	8260B ⁽¹⁾	31	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	740	100	ug/l	MAK	08/04/2005	0041758-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<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: 05-4196
Lab Sample ID: 0507-2764
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 07/28/2005
Date Received: 07/29/2005

Client Site: Essex-Hope
Client Ref.: 41567474.40000

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	08/04/2005	0041741-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	08/04/2005	0041741-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	55	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0

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Lab Sample ID: 0507-2764

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	850	20	ug/l	MAK	08/04/2005	0041741-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<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: 05-4196
Lab Sample ID: 0507-2765
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 07/28/2005
Date Received: 07/29/2005

Client Site: Essex-Hope
Client Ref.: 41567474.40000

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	08/04/2005	0041741-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	08/04/2005	0041741-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0

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Lab Sample ID: 0507-2785

Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	08/04/2005	0041741-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<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

Required Client Information:

Company: **URS CORPORATION**
Address: **FOSTER PARK 41 ST 300**
501 HOLTHAM DRIVE
PIDGEBURGH PA 15220
Email To:

Section B

Required Project Information:

Report To: **KATHY DODRILL**
Copy To:
Purchase Order No.:

Section C

Invoice Information:

Attention: **KATHY DODRILL**
Company Name: **URS CORPORATION**
Address: **501 HOLTHAM DRIVE**
Pace Quote Reference:

Page: / of /
942276

REGULATORY AGENCY:

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other

SITE LOCATION:
☐ GA ☐ IL ☐ IN ☐ MI ☐ MN ☐ NC
☐ OH ☐ SC ☐ WI ☐ OTHER

Project Name: **83524/140P2**
Project Number: **41563474-40000**
Requested Due Date/TAT:

ITEM #	Section D Required Client Information		Valid Matrix Codes	MATRIX CODE	SAMPLE TYPE	COLLECTED		AT COLLECTION	# OF CONTAINERS	Preservatives							Other	Pace Project Number	Lab ID
	Sample ID	One Character per box (A-Z, 0-9 / -)				COMPOSITE START DATE	COMPOSITE END/GRAB TIME			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Mercuric				
1	PRZ-CARZ	B							3								07-2762		
2	PRZ-CARZ	B							3								07-2763		
3	POST	B							3								07-2764		
4	POST	B							3										
5	POST	B							3										
6	POST	B							3										
7	TRZ	B							3								07-2765		
8																			
9																			
10																			
11																			
12																			

Additional Comments:

COMPOSITE (4) POST CARB
SAMPLES IN LAB AND
REPORT AS POST CARB
COMPOSITE.

SAMPLE CONDITION

Temp in °C	Received	in Ice	Quadrant	Sealed Cooler	Sample	Intact
	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N

SAMPLER'S NAME AND SIGNATURE

PRINT Name of SAMPLER

KATHY DODRILL
SIGNATURE OF SAMPLER

SEE REVERSE SIDE FOR INSTRUCTIONS



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

September 23, 2005

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on September 8, 2005. 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 05-5195 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567474.40000

Pace Sample Identification	Client Sample Identification
0509-0959	Pre-Carb
0509-0960	Primary Effluent
0509-0961	Post Carb
0509-0962	Trip Blank

General Comments: Cooler temperature 1 ° 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. Mark Dowiak
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-5195
Lab Sample ID: 0509-0959
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 09/08/2005
Date Received: 09/08/2005

Client Site: Essex-Hope
Client Ref.: 41567474.40000

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	09/15/2005	0042801-1	<10
Benzene	8260B ⁽¹⁾	5.3	1.0	ug/l	JEC	09/15/2005	0042801-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3500	50	ug/l	JEC	09/16/2005	0042822-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	19	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0509-0959
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Trichloroethene	8260B ⁽¹⁾	660	50	ug/l	JEC	09/16/2005	0042822-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	410	100	ug/l	JEC	09/16/2005	0042822-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<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. Mark Dowiak
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-5195
Lab Sample ID: 0509-0980
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 09/08/2005
Date Received: 09/08/2005

Client Site: Essex-Hope
Client Ref.: 41567474.40000

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	09/15/2005	0042801-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	09/15/2005	0042801-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	6.1	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2500	50	ug/l	JEC	09/16/2005	0042822-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	9.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0509-0960
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Trichloroethene	8260B ⁽¹⁾	17	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	840	100	ug/l	JEC	09/16/2005	0042822-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<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. Mark Dowiak
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-5195
Lab Sample ID: 0509-0961
Client Sample ID: Post Carb
Sample Matrix: Aqueous

Date Sampled: 09/08/2005
Date Received: 09/08/2005

Client Site: Essex-Hope
Client Ref.: 41567474.40000

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	09/15/2005	0042801-1	<10
Benzene	8260B ⁽¹⁾	1.4	1.0	ug/l	JEC	09/15/2005	0042801-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1300	10	ug/l	JEC	09/16/2005	0042822-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0509-0961

Client Sample ID: Post Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Trichloroethene	8260B ⁽¹⁾	140	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	700	20	ug/l	JEC	09/16/2005	0042822-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1998, 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 0509-0961 was composited from 4 samples 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. Mark Dowiak
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 05-5195
 Lab Sample ID: 0509-0962
 Client Sample ID: Trip Blank
 Sample Matrix: Aqueous

Date Sampled: 09/08/2005
 Date Received: 09/08/2005

Client Site: Essex-Hope
 Client Ref.: 41567474.40000

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	09/15/2005	0042801-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	09/15/2005	0042801-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0

(Continued)

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Lab Sample ID: 0509-0962
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	09/15/2005	0042801-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<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 A

Required Client Information:

Company: **URS Corp**
Address: **Foster Plaza 4 501 Highway 300**
Pittsburgh PA 15220
Email To:

Section B

Required Project Information:

Report To: **Mark Dawick**
Copy To: **Brad Curstone**
Purchase Order No.:
Project Name: **Essex / 14pc**
Project Number: **11561174 410000**

Section C

Invoice Information:

Attention: **Mark Dawick**
Company Name: **URS Corp**
Address: **Same**
Place Order Reference:
Place Project Manager:
Place Project #:

Page: **1** of **1**
909170

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other

SITE LOCATION

☐ GA ☐ IL ☐ IN ☐ MI ☐ MN ☐ NC
☐ OH ☐ SC ☐ WI ☐ OTHER

Section D Required Client Information

SAMPLE ID

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

Samples IDs MUST BE UNIQUE

Valid Matrix Codes:
MATRIX CODE
DRINKING WATER DW
WASTE WATER WW
WASTEWATER TREATMENT PLANT EFFLUENT
SOILS
OIL
WASTE OIL
AIR
OTHER
Tissue

SAMPLE TYPE
G-GRAB
C-COMP

MATRIX CODE

COLLECTED

COMPOSITE START

DATE

TIME

COMPOSITE END/GRAB

TIME

SAMPLE TEMP

OF CONTAINERS

Preservatives

Unpreserved

H₂SO₄

HNO₃

HCl

NaOH

Methanol

Other

Filtered (Y/N)

Requested Analysis:

Residual Chlorine (Y/N)

Face Project Number

Lab ID

05-5195

09-0959

0960

0961

0962

Additional Comments:

Composite (4) post carb samples in lab and Report as post carb composite

SAMPLE CONDITION

Temp in °C
Refrigerated
On Ice
Cooled
Sealed Cooler
Samples

RELINQUISHED BY AFFILIATION DATE TIME ACCEPTED BY AFFILIATION DATE TIME

RELINQUISHED BY: **Brad Curstone** DATE: **9/8/05** TIME: **1330**
ACCEPTED BY: **Essex** DATE: **9/8/05** TIME: **10:00**

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY)

SEE REVERSE SIDE FOR INSTRUCTIONS



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

October 13, 2005

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on September 30, 2005. 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 05-5644 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567474

Pace Sample Identification	Client Sample Identification
0509-3503	Pre-Carb
0509-3504	Primary Effluent
0509-3505	Post-Carb
0509-3506	TB-01

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. Mark Dowiak
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-5844
Lab Sample ID: 0509-3503
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 09/29/2005
Date Received: 09/30/2005

Client Site: Essex-Hope
Client Ref.: 41567474

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	10/06/2005	0043400-1	<10
Benzene	8260B ⁽¹⁾	5.4	1.0	ug/l	MAK	10/06/2005	0043400-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	9.9	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2500	50	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0509-3503

Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/08/2005	0043400-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/08/2005	0043400-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/08/2005	0043400-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/08/2005	0043400-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/08/2005	0043400-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/08/2005	0043400-1	<5.0
Trichloroethene	8260B ⁽¹⁾	620	50	ug/l	MAK	10/08/2005	0043400-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/08/2005	0043400-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	340	2.0	ug/l	MAK	10/08/2005	0043400-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	6.3	5.0	ug/l	MAK	10/08/2005	0043400-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/08/2005	0043400-1	<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. Mark Dowiak
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-5644
Lab Sample ID: 0509-3504
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 09/29/2005
Date Received: 09/30/2005

Client Site: Essex-Hope
Client Ref.: 41567474

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	10/06/2005	0043400-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	10/06/2005	0043400-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	6.8	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2500	50	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0509-3504
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2,2-Tetrachloroethane	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Tetrachloroethene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Toluene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,1-Trichloroethane	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2-Trichloroethane	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Trichloroethane	8280B ⁽¹⁾	17	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Trichlorofluoromethane	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Vinyl chloride	8280B ⁽¹⁾	840	100	ug/l	MAK	10/06/2005	0043400-1	<2.0
m,p-Xylene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
o-Xylene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<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. Mark Dowiak
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-5644
Lab Sample ID: 0509-3505
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 09/29/2005
Date Received: 09/30/2005

Client Site: Essex-Hope
Client Ref.: 41567474

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	10/06/2005	0043400-1	<10
Benzene	8260B ⁽¹⁾	3.7	1.0	ug/l	MAK	10/06/2005	0043400-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	7.3	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2500	50	ug/l	MAK	10/07/2005	0043443-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	MAK	10/08/2005	0043400-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0509-3505

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Trichloroethene	8260B ⁽¹⁾	480	50	ug/l	MAK	10/07/2005	0043443-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	490	100	ug/l	MAK	10/07/2005	0043443-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<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 0509-3505 was composited from 4 samples prior to analysis.

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

Lab Project ID: 05-5644
Lab Sample ID: 0509-3506
Client Sample ID: TB-01
Sample Matrix: Aqueous

Date Sampled: 09/29/2005
Date Received: 09/30/2005

Client Site: Essex-Hope
Client Ref.: 41587474

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	10/06/2005	0043400-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	10/06/2005	0043400-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0

(Continued)

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Lab Sample ID: 0509-3506
Client Sample ID: TB-01

Volatiles (Cont.)

Styrene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2,2-Tetrachloroethane	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Tetrachloroethene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Toluene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,1-Trichloroethane	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2-Trichloroethane	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Trichloroethene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Trichlorofluoromethane	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Vinyl chloride	8280B ⁽¹⁾	<2.0	2.0	ug/l	MAK	10/06/2005	0043400-1	<2.0
m,p-Xylene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
o-Xylene	8280B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<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.
5203 Triangle Lane
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Phone: 724.733.1161
Fax: 724.327.7793

December 19, 2005

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on December 2, 2005. 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 05-6896 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567474

Pace Sample Identification	Client Sample Identification
0512-0482	Pre-Carb
0512-0483	Primary Effluent
0512-0484	Post-Carb
0512-0485	TB-01

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 10

REPORT OF LABORATORY ANALYSIS

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 5203 Triangle Lane
 Export, PA 15632
 Phone: 724.733.1161
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Mr. Mark Dowiak
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 05-6896
 Lab Sample ID: 0512-0482
 Client Sample ID: Pre-Carb
 Sample Matrix: Aqueous

Date Sampled: 12/01/2005
 Date Received: 12/02/2005

Client Site: Essex-Hope
 Client Ref.: 41567474

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	12/07/2005	0045202-1	<10
Benzene	8260B ⁽¹⁾	2.5	1.0	ug/l	MAK	12/07/2005	0045202-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	980	50	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	7.2	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0

(Continued)

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Lab Sample ID: 0512-0482
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichloroethene	8260B ⁽¹⁾	150	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	210	2.0	ug/l	MAK	12/07/2005	0045202-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<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. Mark Dowiak
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 05-6896
 Lab Sample ID: 0512-0483
 Client Sample ID: Primary Effluent
 Sample Matrix: Aqueous

Date Sampled: 12/01/2005
 Date Received: 12/02/2005

Client Site: Essex-Hope
 Client Ref.: 41567474

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	12/07/2005	0045202-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	12/07/2005	0045202-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	13	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0512-0483
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	8.0	2.0	ug/l	MAK	12/07/2005	0045202-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<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. Mark Dowiak
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-8896
Lab Sample ID: 0512-0484
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 12/01/2005
Date Received: 12/02/2005

Client Site: Essex-Hope
Client Ref.: 41567474

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	12/07/2005	0045202-1	<10
Benzene	8260B(1)	2.2	1.0	ug/l	MAK	12/07/2005	0045202-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	730	50	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	5.1	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0512-0484
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichloroethene	8260B ⁽¹⁾	130	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	190	2.0	ug/l	MAK	12/07/2005	0045202-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<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 0512-0484 was composited from 3 samples prior to analysis.

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

Lab Project ID: 05-6896
Lab Sample ID: 0512-0485
Client Sample ID: TB-01
Sample Matrix: Aqueous

Date Sampled: 12/01/2005
Date Received: 12/02/2005

Client Site: Essex-Hope
Client Ref.: 41567474

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	12/07/2005	0045202-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/07/2005	0045202-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0

(Continued)

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Lab Sample ID: 0512-0485
Client Sample ID: TB-01

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	12/07/2005	0045202-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<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 C
Invoice Information:

Composite Post-CARB
samples for (1) ANALY

2

ALL 0020 Nov 3.31 Mar 05



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

January 9, 2006

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on December 22, 2005. 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 05-7322 when inquiring about this report.

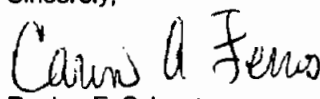
Client Site: Essex-Hope
Client Ref.: 41567474

Pace Sample Identification	Client Sample Identification
0512-2923	Pre-Carb
0512-2924	Primary Effluent
0512-2925	Post Carb
0512-2926	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,

for 
Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 05-7322
Lab Sample ID: 0512-2923
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 12/21/2005
Date Received: 12/22/2005

Client Site: Essex-Hope
Client Ref.: 41567474

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	01/03/2006	0045938-1	<10
Benzene	8260B ⁽¹⁾	6.5	1.0	ug/l	MAK	01/03/2006	0045938-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	16	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3500	50	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	25	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0

(Continued)

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Lab Sample ID: 0512-2923
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Trichloroethene	8260B ⁽¹⁾	820	50	ug/l	MAK	01/03/2006	0045938-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	510	100	ug/l	MAK	01/03/2006	0045938-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<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. Mark Dowiak
 URS Corporation
 Construction Services Division
 Foster Plaza 4
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

Lab Project ID: 05-7322
 Lab Sample ID: 0512-2924
 Client Sample ID: Primary Effluent
 Sample Matrix: Aqueous

Date Sampled: 12/21/2005
 Date Received: 12/22/2005

Client Site: Essex-Hope
 Client Ref.: 41567474

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	01/03/2006	0045938-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/03/2006	0045938-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0

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Lab Sample ID: 0512-2824
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	7.0	2.0	ug/l	MAK	01/03/2006	0045938-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<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 15220

Lab Project ID: 05-7322
 Lab Sample ID: 0512-2925
 Client Sample ID: Post Carb
 Sample Matrix: Aqueous

Date Sampled: 12/21/2005
 Date Received: 12/22/2005

Client Site: Essex-Hope
 Client Ref.: 41567474

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	01/03/2006	0045938-1	<10
Benzene	8260B ⁽¹⁾	4.3	1.0	ug/l	MAK	01/03/2006	0045938-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	10	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2600	50	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0

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Lab Sample ID: 0512-2925
Client Sample ID: Post Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Trichloroethene	8260B ⁽¹⁾	550	50	ug/l	MAK	01/03/2006	0045938-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	340	2.0	ug/l	MAK	01/03/2006	0045938-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<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 0512-2925 was composited from 4 samples prior to analysis.

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Lab Project ID: 05-7322
Lab Sample ID: 0512-2928
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 12/21/2005
Date Received: 12/22/2005

Client Site: Essex-Hope
Client Ref.: 41567474

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	01/03/2006	0045938-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/03/2006	0045938-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0

(Continued)

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Lab Sample ID: 0512-2926
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	01/03/2006	0045938-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<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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APPENDIX C

SVE/SPARGING SYSTEMS PERFORMANCE DATA

APPENDIX C-1

2005 PERFORMANCE DATA

NPLS Area
2005 SVE System Monitoring Data
Essex/Hope Site
Jamestown, New York

Date	Time (military)	Elapsed Time (Days)	Air Velocity (ft/min) Header Intake	Air flow Rate (ft3/min) Header Intake	Vacuum (in H2O)		Press (in H2O)	Temperature (F)		Comments
					Separator Intake	Blower Intake		Separator Intake	Blower Discharge	
12/12/2004	1545	2592	1900	166	40	140	1.0	44	84	24 Hr On 12/12/04 - 12/31/04
1/13/2005	1530	2624	1800	157	60	150	1.0	46	94	
2/6/2005	945	2648	1800	157	15	130	NA	42	90	
3/16/2005	1100	2686	NA	NA	30	150	1.0	38	74	
4/17/2005	730	2718	1900	166	138	30	1.0	50	78	
5/8/2005	1045	2739	1800	157	140	25	1.0	50	78	
5/24/2005	1200	2755	1800	157	140	22	1.0	56	86	
6/5/2005	1030	2767	1600	140	140	22	1.0	62	88	
6/21/2005	1100	2783	1600	140	140	22	1.0	68	98	
8/4/2005	1340	2827	1700	148	144	20	1.0	77	102	
8/19/2005	1230	2842	1500	131	146	15	1.0	76	102	
8/29/2005	1230	2852	1500	131	145	15	1.4	73	98	
9/15/2005	1220	2869	1500	131	146	15	1.4	72	100	
10/13/2005	945	2897	1400	122	148	14	1.4	66	90	

Notes:
 Conversion to CFM = FPM*(0.08762) for 4-in pipe

NPLS**2005 SVE System Airstream Sample Results - 601/602 Scan****Essex/Hope Site****Jamestown, New York**

Influent Constituents	Date/Sample Results (ppmv)
	5/18/2005
1,1 Dichloroethane	<.01
1,1,1 Trichloroethane	<.005
Trichloroethene	0.041
Tetrachloroethene	<.005
cis-1,2-Dichlorethene	0.041
Ethylbenzene	<.1
Toluene	<.1
M&P-Xylene	<.2
O-Xylene	<.1
Total VOCs	0.082

Effluent Constituents	Date/Sample Results (ppmv)
	5/18/2005
1,1 Dichloroethane	<.01
1,1,1 Trichloroethane	<.005
Trichloroethene	0.011
Tetrachloroethylene	<.005
cis-1,2-Dichlorethene	0.096
Ethyl Benzene	<.1
Toluene	<.1
M&P-Xylene	<.2
O-Xylene	<.1
Total VOCs	0.107

Notes:

Only detected and historically detected VOCs shown

NA - Not Analyzed

NPLS**2005 SVE System Discharge Rates (Influent)**

Essex/Hope Site
Jamestown, New York

Period	Total VOCs (lb)
Jan - June	9.92E-01
2005 Total	0.99

Quarterly Average-Trichloroethylene

Period	Avg. Flow Rate (cfm)	Mol. Weight (s/mole)	Vapor Conc. (ppmv)	Extraction Hours (period)	Discharge Rate (lb/hr)	Estimated Pounds Discharged
Jan - June	156.5	131.39	0.041	4344	1.31E-04	5.71E-01
Estimated Pounds Removed During 2005:						0.57

Quarterly Average- cis-1,2-Dichloroethene

Period	Avg. Flow Rate (cfm)	Mol. Weight (s/mole)	Vapor Conc. (ppmv)	Extraction Hours	Discharge Rate (lb/hr)	Estimated Pounds Discharged
Jan - June	156.5	96.94	0.041	4344	9.69E-05	4.21E-01
Estimated Pounds Removed During 2005:						0.42

Monthly Data

Month	Avg. Flow Rate (cfm)	Avg. Flow Rate (period)	Extraction Hours (month)	Extraction Hours (period)
Jan	157	156.5	744	4344
Feb	157		672	
Mar	162		744	
Apr	166		720	
May	157		744	
June	140		720	

Notes:

Mass removal calculations are based upon actual vapor extraction time.

Vapor Conc. for period is based upon the May 05 air stream concentration data

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

R = Mass Removal Rate (lb/hour)

C = Discharge Vapor Concentration (ppmv)

Mw = Molecular weight of Constituent

Q = Air Flow Rate (cfm)

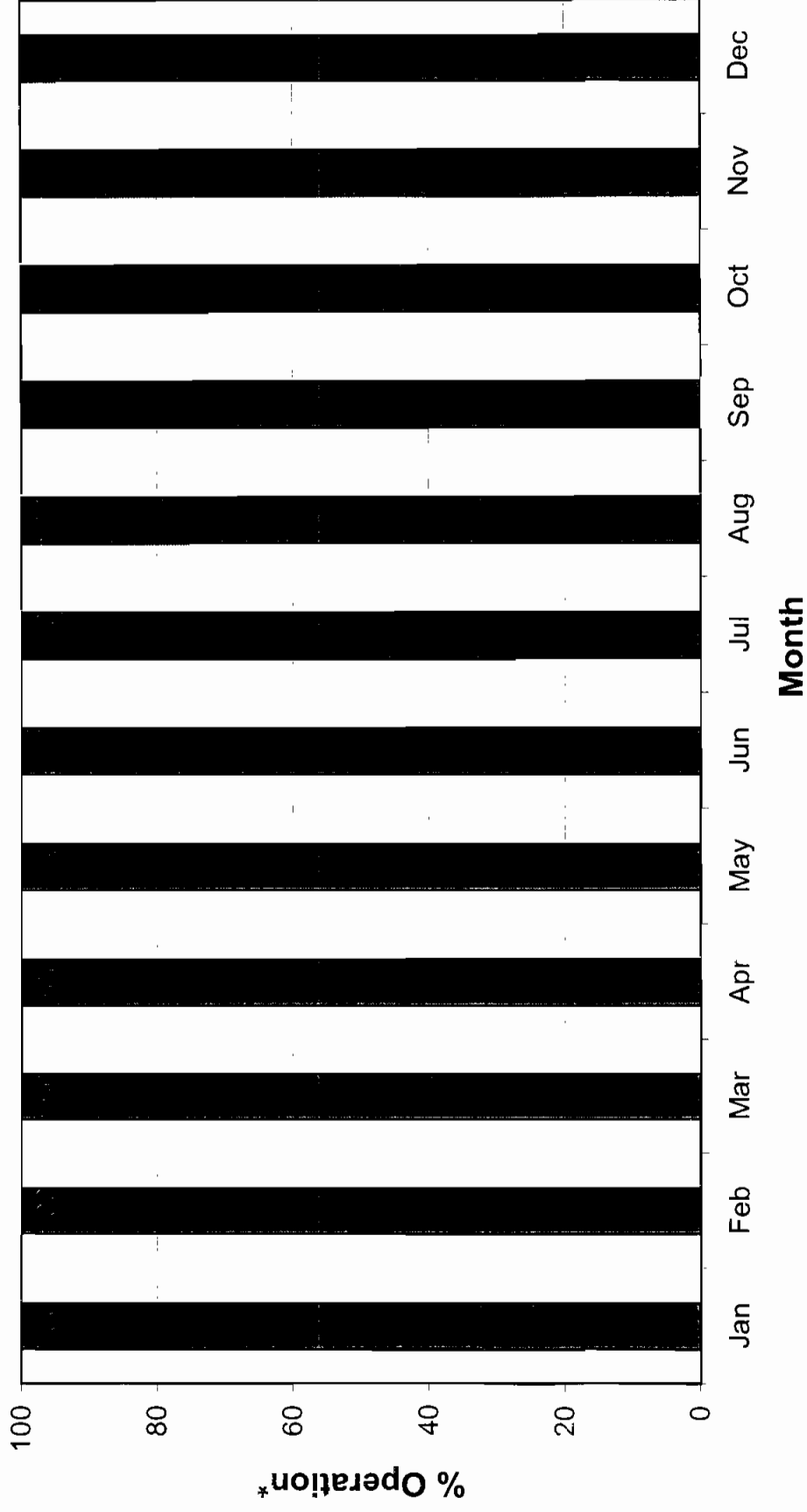
1 ppmv = $(Mw/385) * 10^{-6}$ [lb/ft³] at 68 °F

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

M = Mass Removed (lb)

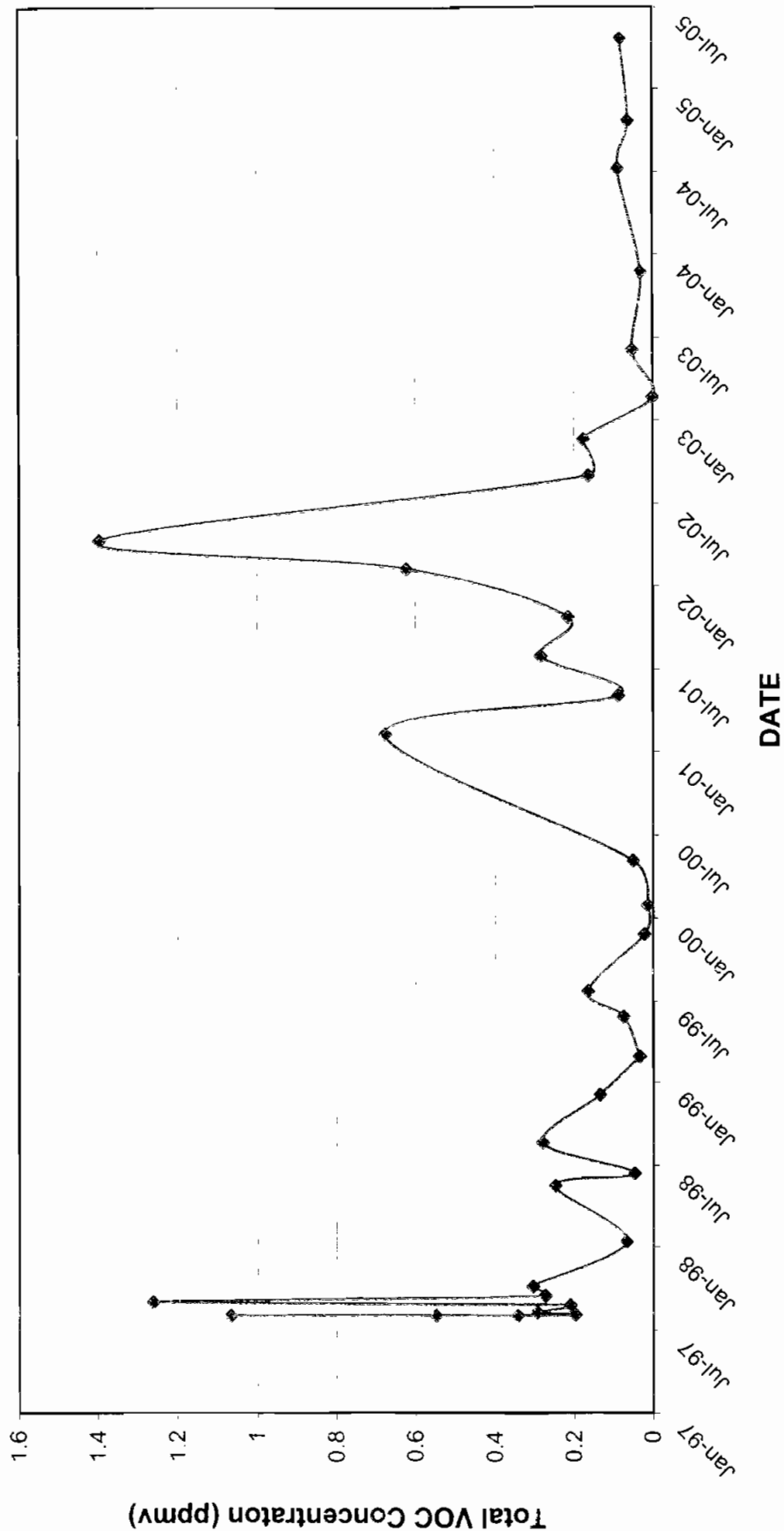
T = Extraction Time (hours)

NPLS AREA SVE SYSTEM 2005 OPERATION SUMMARY

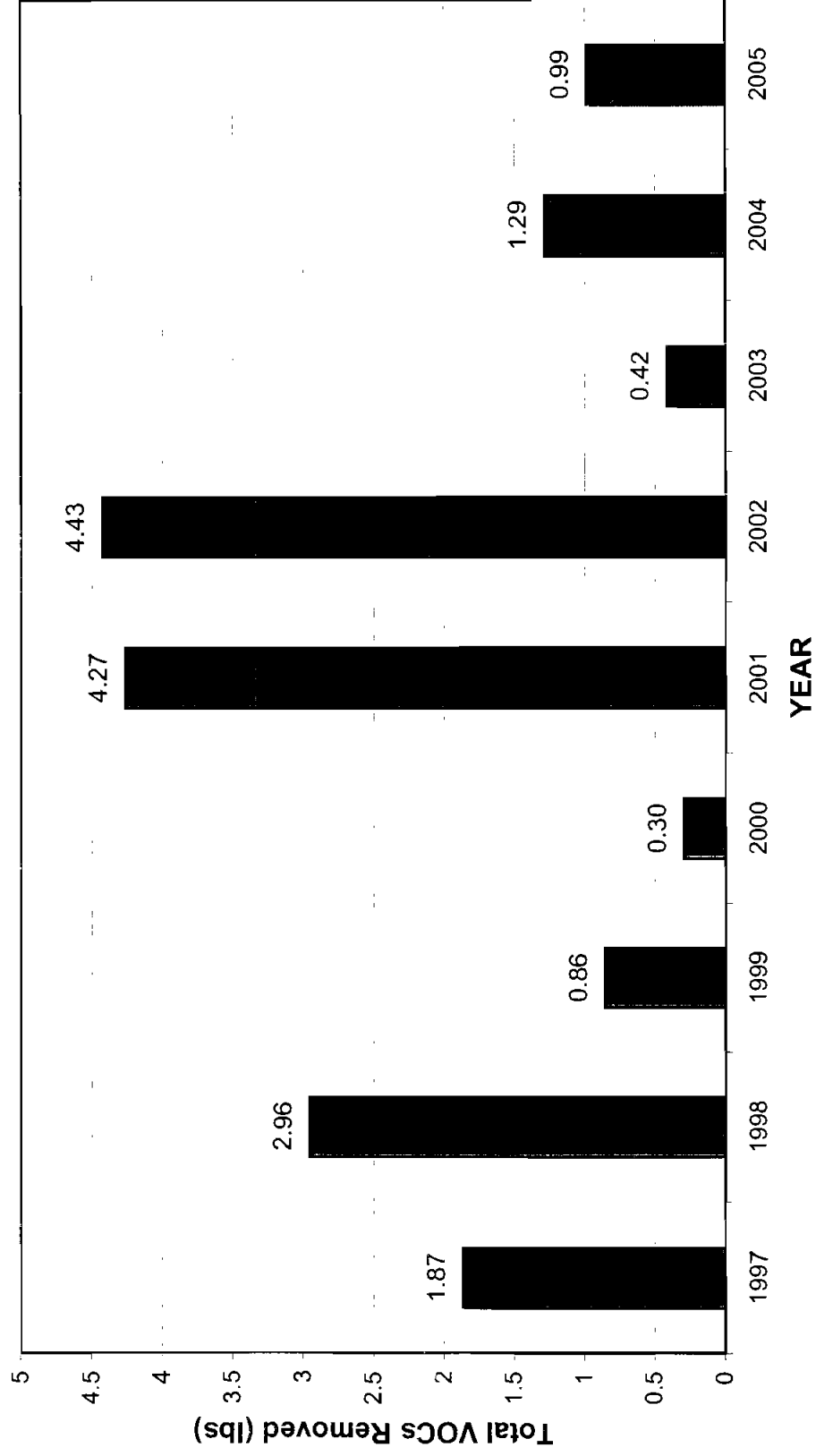


*Percentage includes scheduled system down times that allow for groundwater introduction into the area.

**NPLS AREA SVE SYSTEM
AIRSTREAM TOTAL VOC CONCENTRATIONS
1997-2005**



**NPLS AREA SVE SYSTEM
TOTAL VOCs REMOVED
1997-2005**



**AST/UST Area
2005 SVE System Monitoring Data**

**Essex/Hope Site
Jamestown, New York**

Date	Time (military)	Elapsed Time (Days)	Air Velocity (ft/min) Header Intake	Air flow Rate (ft3/min) Header Intake	Vacuum (in H2O)		Press (in H2O)		Temperature (F)		Comments
					Separator Intake	Blower Intake	Blower Discharge	Separator Intake	Blower Discharge		
12/12/2004	1420	2592	2800	244	70	65	0.4	50	94		
1/13/2005	0445	2624	2500	218	65	60	0.4	48	94		
2/6/2005	0815	2648	2600	227	65	60	0.4	46	94		
3/13/2005	NA	2683	2900	253	65	60	0.4	34	78		
4/17/2005	0900	2718	2800	244	65	60	0.4	50	78		
5/8/2005	0900	2739	2400	209	60	55	0.4	52	92		
5/24/2005	1030	2755	2500	218	60	55	0.4	68	104		
6/5/2005	0800	2767	2400	209	60	55	0.4	64	108		
6/26/2005	0900	2788	2400	209	55	50	0.4	70	106		
7/21/2005	1410	2813	2300	201	60	55	0.4	80	124		
8/4/2005	1340	2827	2400	209	60	55	0.4	84	127		
8/19/2005	1100	2842	2250	196	60	55	0.6	98	119		
8/29/2005	1215	2852	2200	192	59	54	0.8	79	119		
9/15/2005	1300	2869	2250	196	59	55	0.8	72	104		
9/29/2005	930	2883	2250	196	69	65	0.8	64	98		
10/13/2005	1015	2897	2500	218	60	55	0.8	64	104		

Notes:

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

AST/UST Area
2005 SVE System Airstream Sample Results - 601/602 Scan

Essex/Hope Site
Jamestown, New York

Influent Constituents	Date/Sample Results (ppmv)
	5/18/2005
1,1 Dichloroethane	<.01
1,1,1 Trichloroethane	<.005
Trichloroethene	0.0053
Tetrachloroethene	<.005
cis-1,2-Dichloroethene	<.01
Ethylbenzene	<.1
Toluene	<.1
M&P-Xylene	<.2
O-Xylene	<.1
Total VOCs	0.0053

Effluent Constituents	Date/Sample Results (ppmv)
	5/18/2005
1,1 Dichloroethane	<.01
1,1,1 Trichloroethane	<.005
Trichloroethene	<.005
Tetrachloroethene	<.005
cis-1,2-Dichloroethene	<.01
Ethylbenzene	<.1
Toluene	<.1
M&P-Xylene	<.2
O-Xylene	<.1
Total VOCs	0

Notes:

Only detected and historically detected VOCs shown

ND - Non-Detect

AST/UST Area
2005 SVE System Discharge Rates (Influent)

Essex/Hope Site
Jamestown, New York

Period	Total VOCs (lb)
Jan - June	3.86E-02
2005 Total	0.04

Quarterly Average-Trichloroethylene

Quarter	Avg. Flow Rate (cfm)	Mol. Weight (s/mole)	Vapor Conc. (ppmv)	Extraction Hours (period)	Discharge Rate (lb/hr)	Estimated Pounds Discharged
Jan - June	225.7	131.39	0.0053	1574	2.45E-05	3.86E-02
Estimated Pounds Removed During 2005:						0.04

Monthly Data

Month	Avg. Flow Rate (cfm)	Avg. Flow Rate (period)	Extraction Hours (month)	Extraction Hours (period)
Jan	218	227.5	43.4	1574
Feb	227		304	
Mar	253		215.2	
Apr	244		81.7	
May	214		449.7	
June	209		480	

Notes:

Mass removal calculations are based upon actual vapor extraction time.
Vapor Conc. for period is based upon the May 05 air stream concentration data

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)

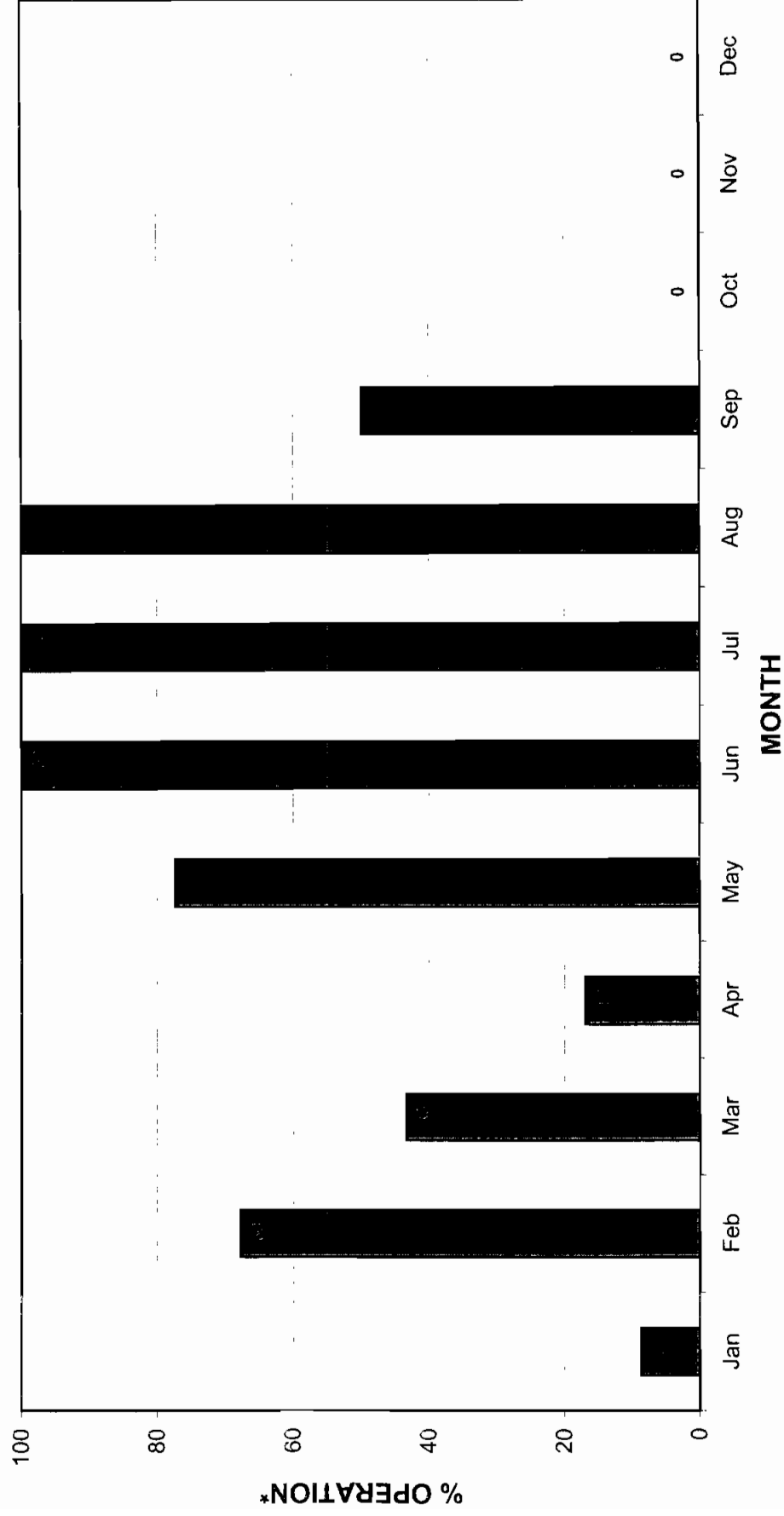
1 ppmv = $(Mw/385) * 10^{-6}$ [lb/ft³] at 68 °F

Calculation: $M = R * T$

M = Mass Removed (lb)

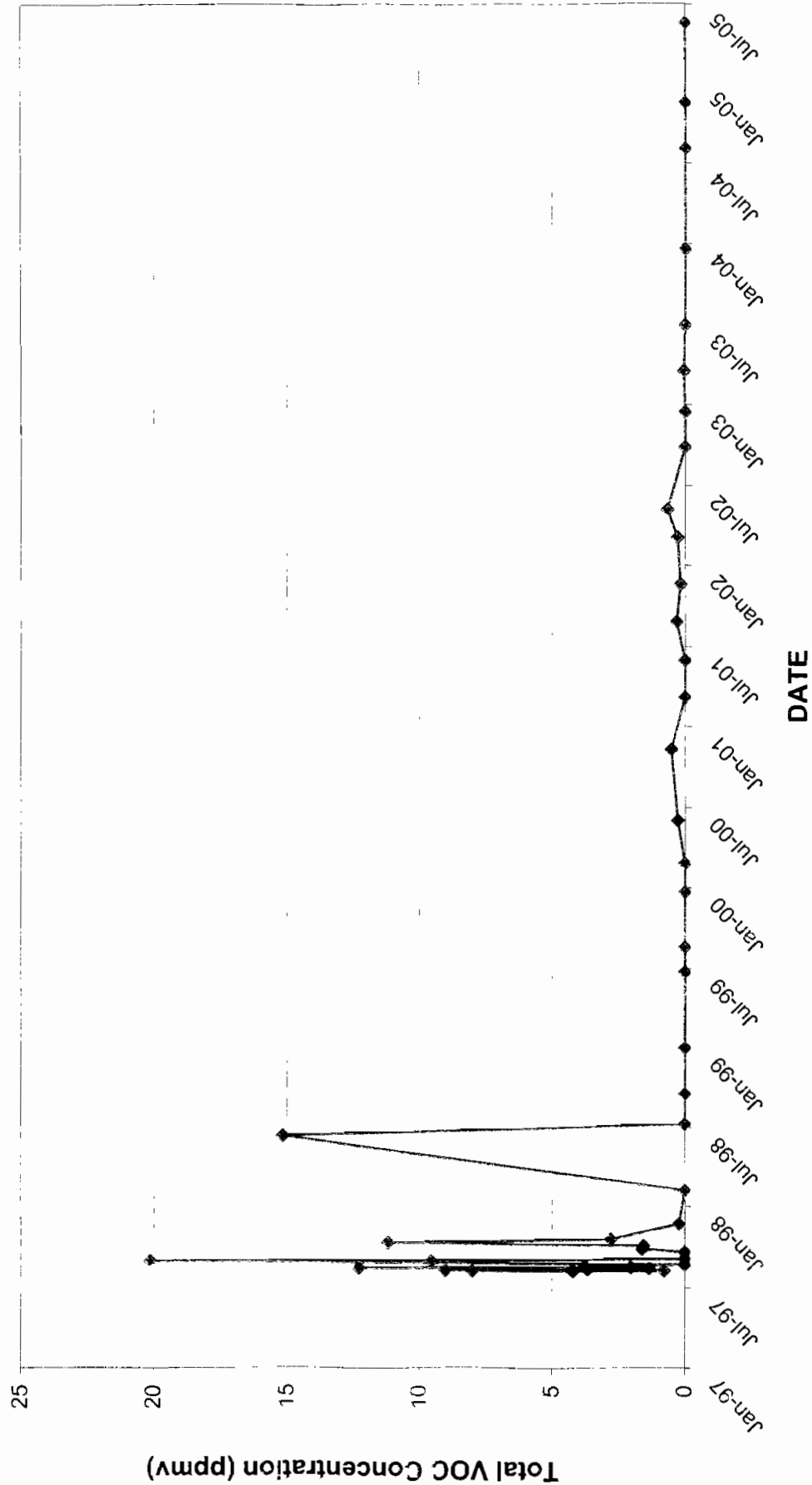
T = Extraction Time (hours)

AST/UST AREA 2005 OPERATION SUMMARY

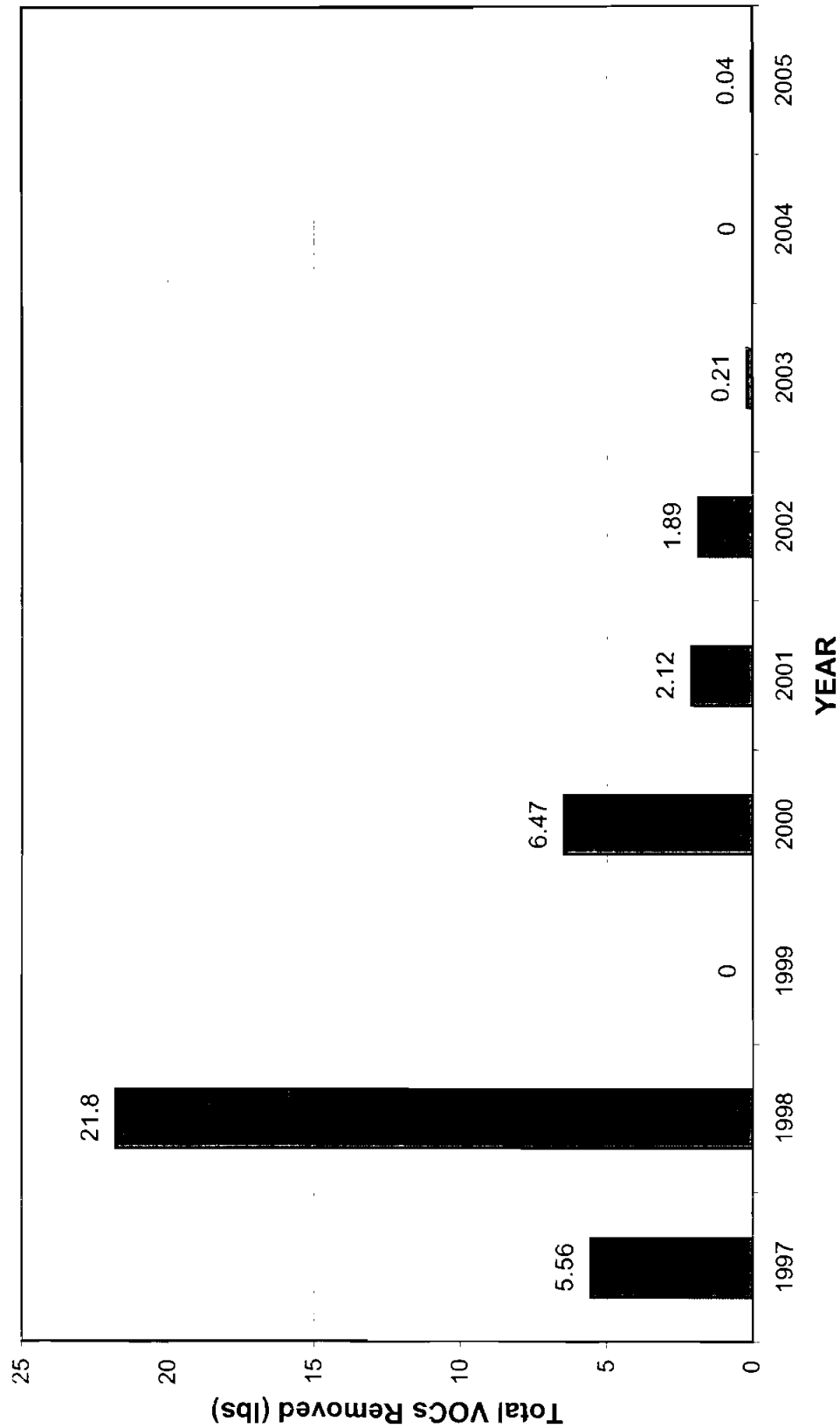


*Percentage includes scheduled system down times that allow for groundwater introduction into the area.

AST/UST AREA SVE SYSTEM AIRSTREAM TOTAL VOC CONCENTRATIONS 1997-2005



**AST/UST AREA
TOTAL VOCs REMOVED
1997-2005**



APPENDIX C-2

2005 AIRSTREAM LABORATORY ANALYTICAL DATA



Client Name: URS
Contact: Mark Dowiak
Address: Foster Plaza 4
501 Holiday Drive
Suite 300
Pittsburgh, PA 15220

Page: Page 1 of 5
Lab Proj #: P0505337
Report Date: 06/02/05
Client Proj Name: Essex Hope
Client Proj #: 41567474.40000

Laboratory Results

Total pages in data package: 6

<u>Lab Sample #</u>	<u>Client Sample ID</u>
P0505337-01	NPL HEADER
P0505337-02	NPL POST CARB
0505337-03	AST HEADER
P0505337-04	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*

Use Narrative:

Client Name: URS
 Contact: Mark Dowiak
 Address: Foster Plaza 4
 501 Holiday Drive
 Suite 300
 Pittsburgh, PA 15220

Page: Page 2 of 5
 Lab Proj #: P0505337
 Report Date: 06/02/05
 Client Proj Name: Essex Hope
 Client Proj #: 41567474.40000

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
NPL HEADER	Vapor	P0505337-01	18 May. 05 13:00	19 May. 05 13:46		
Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
skAnalysis						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
1,1-Dichloroethane	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
1,1-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
1,2-Dichlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
1,2-Dichloroethane	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
1,2-Dichloropropane	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
1,3-Dichlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
1,4-Dichlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
Benzene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
Bromodichloromethane	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
Bromoform	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
Bromomethane/Chloroethane	<1.0000	1.0000	PPMV	AM4.02	5/24/05	rw
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
Chlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
Chloroform	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
Chloromethane	<1.0000	1.0000	PPMV	AM4.02	5/24/05	rw
cis-1,2-Dichloroethene	0.0410	0.0100	PPMV	AM4.02	5/24/05	rw
cis-1,3-Dichloropropene	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
Ethylbenzene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
m & p-Xylene	<0.2000	0.2000	PPMV	AM4.02	5/24/05	rw
Methylene Chloride	<2.0000	2.0000	PPMV	AM4.02	5/24/05	rw
o-Xylene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
Tetrachloroethene	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
Toluene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
trans-1,2-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
trans-1,3-Dichloropropene	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
Trichloroethene	0.0410	0.0050	PPMV	AM4.02	5/24/05	rw
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
Vinyl Chloride	<1.0000	1.0000	PPMV	AM4.02	5/24/05	rw



Client Name: URS
 Contact: Mark Dowiak
 Address: Foster Plaza 4
 501 Holiday Drive
 Suite 300
 Pittsburgh, PA 15220

Page: Page 3 of 5
 Lab Proj #: P0505337
 Report Date: 06/02/05
 Client Proj Name: Essex Hope
 Client Proj #: 41567474.40000

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received		
NPL POST CARB	Vapor	P0505337-02	18 May. 05 13:02	19 May. 05 13:46		
Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
skAnalysis						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
1,1-Dichloroethane	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
1,1-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
1,2-Dichlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
1,2-Dichloroethane	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
1,2-Dichloropropane	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
1,3-Dichlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
1,4-Dichlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
Benzene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
Bromodichloromethane	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
Bromoform	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
Bromomethane/Chloroethane	<1.0000	1.0000	PPMV	AM4.02	5/24/05	rw
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
Chlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
Chloroform	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
Chloromethane	<1.0000	1.0000	PPMV	AM4.02	5/24/05	rw
cis-1,2-Dichloroethene	0.0960	0.0100	PPMV	AM4.02	5/24/05	rw
cis-1,3-Dichloropropene	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
Ethylbenzene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
m & p-Xylene	<0.2000	0.2000	PPMV	AM4.02	5/24/05	rw
Methylene Chloride	<2.0000	2.0000	PPMV	AM4.02	5/24/05	rw
o-Xylene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
Tetrachloroethene	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
Toluene	<0.1000	0.1000	PPMV	AM4.02	5/24/05	rw
trans-1,2-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
trans-1,3-Dichloropropene	<0.0100	0.0100	PPMV	AM4.02	5/24/05	rw
Trichloroethene	0.0110	0.0050	PPMV	AM4.02	5/24/05	rw
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	5/24/05	rw
Vinyl Chloride	<1.0000	1.0000	PPMV	AM4.02	5/24/05	rw



Client Name: URS
 Contact: Mark Dowiak
 Address: Foster Plaza 4
 501 Holiday Drive
 Suite 300
 Pittsburgh, PA 15220

Page: Page 4 of 5
 Lab Proj #: P0505337
 Report Date: 06/02/05
 Client Proj Name: Essex Hope
 Client Proj #: 41567474.40000

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
AST HEADER	Vapor	P0505337-03	18 May. 05 13:10	19 May. 05 13:46		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
skAnalysis						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
1,1-Dichloroethane	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
1,1-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
1,2-Dichlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
1,2-Dichloroethane	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
1,2-Dichloropropane	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
1,3-Dichlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
1,4-Dichlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
Benzene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
Bromodichloromethane	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
Bromoform	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
Bromomethane/Chloroethane	<1.0000	1.0000	PPMV	AM4.02	5/26/05	rw
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
Chlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
Chloroform	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
Chloromethane	<1.0000	1.0000	PPMV	AM4.02	5/26/05	rw
cis-1,2-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
cis-1,3-Dichloropropene	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
Ethylbenzene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
m & p-Xylene	<0.2000	0.2000	PPMV	AM4.02	5/26/05	rw
Methylene Chloride	<2.0000	2.0000	PPMV	AM4.02	5/26/05	rw
o-Xylene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
Tetrachloroethene	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
Toluene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
trans-1,2-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
trans-1,3-Dichloropropene	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
Trichloroethene	0.0053	0.0050	PPMV	AM4.02	5/26/05	rw
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
Vinyl Chloride	<1.0000	1.0000	PPMV	AM4.02	5/26/05	rw



Client Name: URS
 Contact: Mark Dowiak
 Address: Foster Plaza 4
 501 Holiday Drive
 Suite 300
 Pittsburgh, PA 15220

Page: Page 5 of 5
 Lab Proj #: P0505337
 Report Date: 06/02/05
 Client Proj Name: Essex Hope
 Client Proj #: 41567474.40000

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
AST POST CARB	Vapor	P0505337-04	18 May. 05 13:12	19 May. 05 13:46		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
skAnalysis						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
1,1-Dichloroethane	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
1,1-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
1,2-Dichlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
1,2-Dichloroethane	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
1,2-Dichloropropane	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
1,3-Dichlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
1,4-Dichlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
Benzene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
Bromodichloromethane	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
Bromoform	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
Bromomethane/Chloroethane	<1.0000	1.0000	PPMV	AM4.02	5/26/05	rw
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
Chlorobenzene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
Chloroform	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
Chloromethane	<1.0000	1.0000	PPMV	AM4.02	5/26/05	rw
cis-1,2-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
cis-1,3-Dichloropropene	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
Ethylbenzene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
m & p-Xylene	<0.2000	0.2000	PPMV	AM4.02	5/26/05	rw
Methylene Chloride	<2.0000	2.0000	PPMV	AM4.02	5/26/05	rw
o-Xylene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
Tetrachloroethene	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
Toluene	<0.1000	0.1000	PPMV	AM4.02	5/26/05	rw
trans-1,2-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
trans-1,3-Dichloropropene	<0.0100	0.0100	PPMV	AM4.02	5/26/05	rw
Trichloroethene	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	5/26/05	rw
Vinyl Chloride	<1.0000	1.0000	PPMV	AM4.02	5/26/05	rw



1303

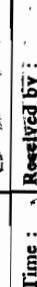
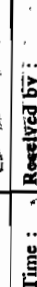
CHAIN - OF - CUSTODY RECORD

Phone: (412) 826-5245 Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 Fax No.: (412) 826-3433

Company: WAS CONSTRUCTION
PO BOX 71474 # 500 300
Co. Address: 500 W 1000 S, DENVER, CO 80202
Proj. Manager: JAMES DONAHUE
Proj. Location: 6500 S 1000 E
Proj. Number: 11567471140000
Phone #: 17373-4669 Fax #: 417 5712-1701

Sampler's signature :

[illegible]

Relinquished by : 	Company : LWS	Date : 5-18-00	Time : 14:00	Received by : E39667613721	Received by : 	Company : P.D. 728	Date : 5-18-00	Time : 14:00
Relinquished by : 	Company : 	Date : 	Time : 	Received by : 	Received by : 	Company : 910-10	Date : 5/18/00	Time : 17:00
Relinquished by : 	Company : 	Date : 	Time : 	Received by : 	Received by : 	Company : 	Date : 	Time :

WHITE COPY : Accompany Samples

YELLOW COPY : Laboratory File

PINK COPY : Submitter

