URS

April 2, 2012

Mr. Maurice Moore
Division of Hazardous Waste Management
New York State Department of Environmental Protection
270 Michigan Avenue
Buffalo, NY 14203-2999

Subject: **2011 Annual Performance Monitoring Report**
Essex/Hope Site
Jamestown, New York
URS Project No. 41569181

Dear Mr. Moore:

Enclosed please find the 2011 Annual Performance Monitoring Report for the above referenced project. Should you have any questions or desire additional information, please contact me at (412) 503-4670 or Mark Dowiak at (412) 503-4672.

Sincerely,

Valerie Sibeto

URS

Valerie Sibeto
Site O&M Manager
URS Dow Business Unit
(412) 503-4670

Enclosure

cc: Tim King – Dow Chemical Corporation
Matt Forcucci – NY State Dept. of Health
James Charles, Esq. – Div. of Environmental Enforcement
Carlo J. Montisano – Custom Production MFG., Inc.
Mark Dowiak, P.E. - URS Corporation

URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220
Tel: 412.503.4700
Fax: 412.503.4704
www.urscorp.com

2011 Annual Performance Monitoring Report Essex/Hope Site Jamestown, New York

March 2012 - Final

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

URS Project No. 41569181

2011 ANNUAL
PERFORMANCE MONITORING REPORT

Essex/Hope Site
Jamestown, New York

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

Prepared by:

Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

URS Project No. 41569181

March 2012

TABLE OF CONTENTS

List of Appendices

List of Tables

List of Figures

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) originally prepared by Radian International in June 1997, and most recently revised by URS Corp. in February, 2011. This report summarizes the operations and performance monitoring of the site remedial systems for the calendar year of 2011. 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 summarizes groundwater quality, and Section 4.0 discusses future plans.

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 and 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 were summarized in a separate report submitted to NYDEC in December 2006.

- *Phase I of the Supplemental Remedial Actions* was initiated in November of 2007. These included a new recovery well, RW-6D and monitoring wells, MW-25S and MW-25D to the north of the site along Hopkins Avenue. Residential vapor sampling was also performed at 159 Hopkins Avenue.

- Recovery Well RW-6D installation was completed in the second half of 2008 and placed on-line in September 2008. *Phase II Supplemental Remedial Activities* commenced in November 2008 with the installation of a residential vapor mitigation system at 159 Hopkins Avenue.

- VOCs in the UST Area shallow groundwater and other offsite shallow and deep groundwater zones are currently being evaluated for insitu treatment technologies. A chemical oxidation treatability study was completed for UST Area soils and groundwater in 2010.

- A Remedial Action Work Plan for insitu chemical oxidation (ISCO) of the UST Area was submitted in August 2011 and continued Phase II remedial actions commenced in the fourth quarter of 2011. Four (4) shallow monitoring wells (MW-26S, MW-27S, MW-28S, and MW-29S) were installed in the UST Area to better evaluate the extent of VOCs in the area and for monitoring of the subsequent ISCO results.

- An ISCO was conducted in November 2011 to treat the shallow groundwater in the UST Area. The area surrounding RW-6D was also treated at this time to address the acetone plume in the deep groundwater zone. Performance monitoring of groundwater and soils was initiated in December 2011 and will continue for at least six (6) months. Results of these activities will be summarized in a separate report to be submitted in 2012 following the completion of monitoring.

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.
- The AST/UST Area system was shut down since August of 2006 and remains offline pending supplemental remedial action in the AST/UST and UST areas and eventual permanent disconnection. The SVE System in the NPL Area was operated on a voluntary basis as an additional safeguard against potential vapor release. However, the system was shut down in November 2007 following review of air stream sample analyses that indicated this area poses no potential hazard associated with vapor release.
- Future system modifications are anticipated as a result of the findings of the 2005-2006 UST Area and Offsite Groundwater Investigations. One recovery well (RW-6D) was installed in November 2007 in the deep groundwater zone VOC plume offsite to the north. RW-6D was placed on-line in September, 2008. As previously stated, VOCs in the UST Area shallow groundwater and other offsite shallow and deep groundwater zones are currently being evaluated for insitu treatment technologies.
- RW-6D was temporarily shut down in August 2011 due to elevated levels of acetone in excess of permit limits in the treatment system effluent. Due to the difficulty of acetone treatment by carbon, normal operations of the recovery well have been postponed until post-ISCO monitoring results illustrate decreased concentrations of the compound.

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 2011 calendar year consisted of monthly groundwater pre-treatment system influent and effluent analysis, semi-annual recovery well groundwater analysis, and annual groundwater sampling of the monitoring wells selected as performance monitoring points. No soil sampling was completed during 2011. Additional groundwater monitoring of treatment areas was conducted as part of the Phase II Remedial Action ISCO activities.

2.0 Groundwater Flow Evaluation

This section presents a summary of the 2011 groundwater flow conditions based on quarterly measurements 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.

The site groundwater has been identified as two (2) zones for descriptive purposes. These are the shallow water-bearing (shallow) and the lower fine-sand water bearing zone (LFSWBS or deep). Detailed descriptions of these geologic zones are found in other site reports.

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 10 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:

- Recovery Wells were offline between March 17, 2011 and March 22, 2011 for repair of the groundwater treatment system effluent pipe.
- Recovery Wells were offline between June 7, 2011 and June 8, 2011, and between July 27, 2011 and July 29, 2011 for carbon changeout activities.
- Recovery Wells were offline periodically between June 27, 2011 and July 7, 2011, and between August 8, 2011 and August 10, 2011 for well development activities, RW-2D and RW-6D acid treatment, and carbon changeout. During the development and meter cleaning of RW-3S, an obstruction in the pipe was discovered and removed to allow optimal flow and production from this well. Note: during development activities/RW maintenance, it was determined that RW-6D required an acid treatment due to heavy amounts of
- Recovery Wells were offline between August 10, 2011 and August 18, 2011 due to the exceedance of acetone in the system effluent and subsequent evaluation of the deep zone acetone plume. Recovery Well RW-6D remained offline until further evaluation/treatment of the acetone plume in this area.
- Recovery Well RW-6D experienced various periods of shutdown due to silt accumulation in the well and malfunction of the variable flow drive controller.
- Recovery Wells were offline between October 17, 2011 and October 18, 2011 for cleaning of the equalization tank by URS Subcontractor Nothnagle Drilling. Approximately 385 gallons (seven 55-gal drums) of solid waste were removed from the

tank. The drums are temporarily stored on site pending offsite disposal at an approved waste management facility.

Note that during RW-6D maintenance activities, the presence of heavy amounts of iron precipitates (as developed in RW-2D) were discovered, therefore, it was determined necessary to perform an acid treatment of the well. Due to heavy silt accumulations and iron precipitate buildup in the well, the RW-6D pump impellers were damaged and the pump was replaced following the acid treatment and prior to restart of the well.

Due to the geology in the area, monitoring locations in the East Parking Lot, south of RW-6D, were also silted up to levels high within the well screen. Prior to ISCO injection activities and continued groundwater monitoring, development was conducted on MW-19D, PZ-5S, and PZ-6D to remove the silt and clean the well screen.

2.2 Annual Groundwater Extraction

Groundwater pumping volumes are provided in Table 2. In 2011, over 1.64 million gallons of groundwater were extracted and treated by the recovery system. Approximately 1.05 million gallons of groundwater were extracted from the deep groundwater zone (LFSWBZ) and over 596,000 gallons of groundwater were extracted from the shallow water-bearing zone. Detailed groundwater extraction monitoring data from each treatment area is provided as Appendix A-2.

2.3 Groundwater Flow Conditions

Groundwater flow conditions in the shallow and deep water-bearing zones at the site for 2011 were a typical reflection of normal site operations. Groundwater contour maps representing pumping conditions within the shallow and deep zones are provided as Figures 3 through 10. Pumping conditions in each groundwater zone are remained consistent with conditions experienced during previous years.

3.0 Water Quality Results and Summary

Groundwater sampling for 2011 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 September 2011)
- Monthly influent and effluent sampling of the wastewater pre-treatment system in support of POTW permit requirements.

Table 3 summarizes the semi-annual recovery well analytical data for 2011. The annual performance monitoring well data is provided in Table 4. Tables 5 through 7 represent the wastewater influent, treatment and effluent sample data for 2011. Recovery Well performance data is illustrated in Appendix A-3. 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)/Northeast Site Area

Both the shallow water-bearing zone and the deeper lower fine sand water-bearing zone are monitored in this area. The shallow monitoring system for area consists of Recovery Wells RW-1S and RW-2S, as well as monitoring wells MW-6, MW-7S, MW-14S, MW-15S, and MW-25S. RW-1S and RW-2S removed 1.76 lbs of VOCs from this zone in Year 2011. The deep water-bearing zone monitoring network consists of Recovery Wells RW-2D and RW-6D, and Monitoring Wells MW-7D, MW-8, MW-14D, MW-15D, MW-19D, MW-21D, MW-22D, MW-25D, and VP-6D. Recovery wells RW-2D and RW-6D demonstrated continued efficiency by removing over 97 lbs of VOCs from the deep groundwater zone.

3.2 AST/UST Area

The AST/UST Area shallow groundwater is monitored by Recovery Well RW-3S and Monitoring Well MW-2. Recovery Well RW-3 removed trace VOCs in 2010. There were 26.5 µg/L of Isopropylbenzene detected in MW-2.

3.3 UST Area

This area is currently monitored by MW-20. Prior to UST removal activities in 2002, RW-4S and RW-5S were effective in removing approximately 110 lbs of VOCs from the groundwater since system startup. As previously mentioned, these RWs are no longer in service.

The UST Area is currently being monitored for baseline (pre-ISCO) and post-ISCO performance conditions. The results of this monitoring will be presented to NYDEC in a report following completion of the monitoring activities.

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 2010 is summarized in Tables 5 through 7. 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 complete. Pre-Carbon influent concentrations reflect a composite from all of the operating groundwater extraction wells prior to pre-treatment.

4.0 Future Plans

Operation, maintenance and monitoring of the remedial systems will continue in Year 2012. Phase II of the Supplemental Remedial Actions will continue with groundwater monitoring in the ISCO injection areas in the UST Area.

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

2011 Groundwater Extraction Summary
Essex/Hope Site
Jamestown, NY

Period	Recovery Well				
	RW-1S Gallons Pumped	RW-2S Gallons Pumped	RW-3S Gallons Pumped	RW-2D Gallons Pumped	RW-6D Gallons Pumped
1st Quarter	22,614	135,619	7	240,862	15,556
2nd Quarter	31,424	142,479	12	165,210	13,814
3rd Quarter	4,910	47,707	603	241,967	55,563
4th Quarter	13,834	192,681	4,337	312,020	131
Total	**72,782**	**518,486**	**4,958**	**960,059**	**85,063**

Period	Site Area		
	NPLS Shallow Area Gallons Pumped	AST Area Gallons Pumped	Lower Fine Sand Water Bearing Zone Gallons Pumped
1st Quarter	158,234	7	256,418
2nd Quarter	173,902	12	179,024
3rd Quarter	52,617	603	297,530
4th Quarter	206,515	4,337	312,151
Total	**591,268**	**4,958**	**1,045,122**

Period	Total Estimated Gallons Pumped - All Areas
1st Quarter	414,659
2nd Quarter	352,938
3rd Quarter	350,749
4th Quarter	523,003
Total	**1,641,348**

Table 3

2011 Semi-Annual Recovery Well Analytical Results (µg/L)
Essex/Hope Site
Jamestown, NY

March 29, 2011

Volatile Organic Compounds	Site GW RAOs	RW-1S	RW-2S	RW-2D	RW-6D	RW-3S
Acetone		ND	ND	ND	**31,000**	ND
Benzene		ND	ND	**7.3**	**88.4**	**7.1**
2-Butanone		ND	ND	ND	**207**	ND
Carbon Disulfide		ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)		ND	ND	ND	ND	**4.5**
1,1-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	**18.7**	**57.4**	ND
cis-1,2-Dichloroethene		**666**	**64.4**	**3,770**	**24,500**	ND
trans-1,2-Dichloroethene	**5**	ND	ND	**86.8**	**308**	ND
Ethylbenzene	**5**	ND	ND	ND	ND	ND
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**	**614**	**17.2**	**1,770**	**127**	ND
Vinyl Chloride	**5**	**35.8**	**2.6**	**802**	**2,070**	ND
Xylenes (total)	**5**	ND	ND	ND	ND	ND

September 22, 2011

Volatile Organic Compounds	Site GW RAOs	RW-1S	RW-2S	RW-2D	RW-6D	RW-3S
Acetone		ND	ND	ND	**36,000**	ND
Benzene		ND	ND	**9.4**	**36.7**	**5.8**
2-Butanone		ND	ND	ND	**192**	ND
Carbon Disulfide		ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)		ND	ND	ND	ND	**6.6**
1,1-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	**24.5**	**53.0**	ND
cis-1,2-Dichloroethene		**791**	**326**	**5,030**	**24,200**	ND
trans-1,2-Dichloroethene	**5**	ND	ND	**156**	**297**	ND
Ethylbenzene	**5**	ND	ND	ND	ND	ND
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**	**278**	**94.4**	**2,220**	**3,510**	ND
Vinyl Chloride	**5**	**3.2**	ND	**662**	**2,990**	ND
Xylenes (total)	**5**	ND	ND	ND	ND	**8.9**

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives

µg/l = Micrograms per liter

ND = Not Detected/Below minimum laboratory reporting limit

Table 4

September 2011 Annual PMP Wells Analytical Results (µg/L)
Essex/Hope Site
Jamestown, NY

Volatile Organic Compounds	MW-2	MW-6	MW-7D	MW-7S	MW-8	MW-14D	MW-14S	MW-15D	MW-15S	MW-19D	MW-20	MW-21D	MW-22D	MW-25D	MW-25S	VP-6D
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2,870**	ND	**65,100**	ND	ND	ND	ND
Benzene	ND	ND	**12.8**	ND	ND	ND	ND	**2.3**	ND	ND	ND	**73.8**	**2.2**	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	**17.5**	ND	**582**	ND	ND	ND	ND
Isopropylbenzene (Cumene)	**26.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.7**
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	**18.5**	ND	ND	ND	ND	**151**	ND	ND	ND	**593**	**9.0**	ND	ND	ND
cis-1,2-Dichloroethene	ND	**27.3**	**5,270**	**586**	**100**	ND	**54.5**	**22,800**	**209**	ND	**403**	**185,000**	**1,010**	ND	**22.9**	ND
trans-1,2-Dichloroethene	ND	ND	**63.9**	**8.7**	ND	ND	ND	**239**	ND	ND	ND	**3,600**	**8.7**	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**26.6**	ND	ND	ND	ND
1,1,1-Trichloroethane	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
Trichloroethene	ND	**8.3**	**367**	**163**	ND	ND	**48.7**	**12,800**	**54.9**	ND	**79.0**	**30,000**	**4,890**	ND	**169**	ND
Vinyl Chloride	ND	ND	**754**	ND	**12.1**	**6.7**	**2.2**	**938**	ND	**130**	**5.1**	**36,200**	**24.3**	ND	ND	ND
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = Not detected
µg/L = Micrograms per liter

Table 5
POTW Monthly Monitoring Summary
2011 System Pre-Carbon
Volatile Organic Compounds (µg/L)

Sample Date	27-Jan-11	28-Feb-11	31-Mar-11	29-Apr-11	18-May-11	27-Jun-11	29-Jul-11	31-Aug-11	19-Sep-11	21-Oct-11	29-Nov-11	20-Dec-11
Acetone	**1,960**	**824**	**318**	ND	ND	ND	**16,300**	ND	ND	ND	**34.5**	ND
Benzene	**12.5**	**7.1**	**6.9**	ND	**5.0**	**8.3**	**32.8**	**6.1**	**3.1**	**4.4**	**5.7**	**5.3**
2-Butanone	**11.3**	ND	ND	ND	ND	ND	**84.4**	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	**9.2**	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	**19.7**	**14.2**	**15.3**	ND	**10.4**	**20**	**29.4**	**14.4**	**6.9**	**10.7**	**12.6**	**11.3**
cis-1,2-Dichloroethene	**6,040**	**3,850**	**3,440**	**118**	**2,940**	**5,230**	**8,500**	**4,550**	**2,060**	**2,670**	**2,870**	**3,290**
trans-1,2-Dichloroethene	**98.9**	**48.4**	**92.4**	ND	**23.5**	**73.7**	**97.0**	**24.8**	**29.7**	**59.9**	**40.7**	**93.0**
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**1,530**	**956**	**1,200**	**95.2**	**1,110**	**1,620**	**4,820**	**1,790**	**649**	**999**	**618**	**607**
Vinyl Chloride	**700**	**438**	**569**	**6.4**	**484**	**673**	**1,110**	**581**	**268**	**34.7**	**348**	**264**
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pre-Carbon TOTAL VOCs	**10,372**	**6,138**	**5,642**	**220**	**4,573**	**7,625**	**30,983**	**6,966**	**3,017**	**3,779**	**3,930**	**4,271**

Notes:

ND = Not detected/Below minimum laboratory reporting limit
µg/L = micrograms per liter
Pre-Carbon sample results represent system influent.

System Carbon was changed out on June 7, 2011 and July 28, 2011.

Table 6
POTW Monthly Monitoring Summary
2011 System Primary Carbon Effluent
Volatile Organic Compounds (µg/L)

Sample Date	27-Jan-11	28-Feb-11	31-Mar-11	29-Apr-11	18-May-11	27-Jun-11	29-Jul-11	31-Aug-11	19-Sep-11	21-Oct-11	29-Nov-11	20-Dec-11
Acetone	**588**	**58.9**	ND	**92.2**	**2,740**	ND	**4,850**	**537**	**42.4**	ND	**19.1**	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.9**	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.2**	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.3**	**6.8**
cis-1,2-Dichloroethene	**382**	**995**	**1,050**	**1,390**	**1,790**	**24.6**	**293**	**70.9**	**71.8**	**91.1**	**2,520**	**2,970**
trans-1,2-Dichloroethene	ND	ND	**8.5**	**10**	**7.4**	ND	ND	ND	ND	ND	**21.4**	**43.8**
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**30**	**55.7**	**44.2**	**22.4**	**45.7**	ND	**8.5**	ND	ND	ND	**18.1**	**47.8**
Vinyl Chloride	**369**	**662**	**663**	**564**	**651**	**777**	**274**	**148**	**208**	**587**	**354**	**333**
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Primary-Carbon TOTAL VOCs	**1,369**	**1,772**	**1,766**	**2,079**	**5,234**	**802**	**5,426**	**756**	**322**	**678**	**2,946**	**3,401**

Notes:

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

System Carbon was changed out on June 7, 2011 and July 28, 2011.

Table 7
POTW Monthly Monitoring Summary
2011 System Post Carbon Effluent
Volatile Organic Compounds (µg/L)

Sample Date	27-Jan-11	28-Feb-11	31-Mar-11	29-Apr-11	18-May-11	27-Jun-11	29-Jul-11	31-Aug-11	19-Sep-11	21-Oct-11	29-Nov-11	20-Dec-11
Acetone	ND	**24.5**	ND	**35.2**	**330**	ND	**3,660**	**2,420**	**869**	ND	**37.9**	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**22.6**	**19.2**	**18.5**	**17.9**	**16.4**	**131**	**50.5**	**17.3**	**16.4**	**12.2**	**11.4**	**11.2**
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	**5.7**	**7.4**	**63.7**	**317**	**763**	**17.9**	**107**	**16.3**	**17.9**	**15.0**	**574**	**375**
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Post-Carbon TOTAL VOCs	**28**	**51**	**82**	**370**	**1,109**	**149**	**3,818**	**2,454**	**903**	**27**	**623**	**386**

Notes:

ND = Not detected/Below minimum laboratory reporting limit
µg/L = micrograms per liter

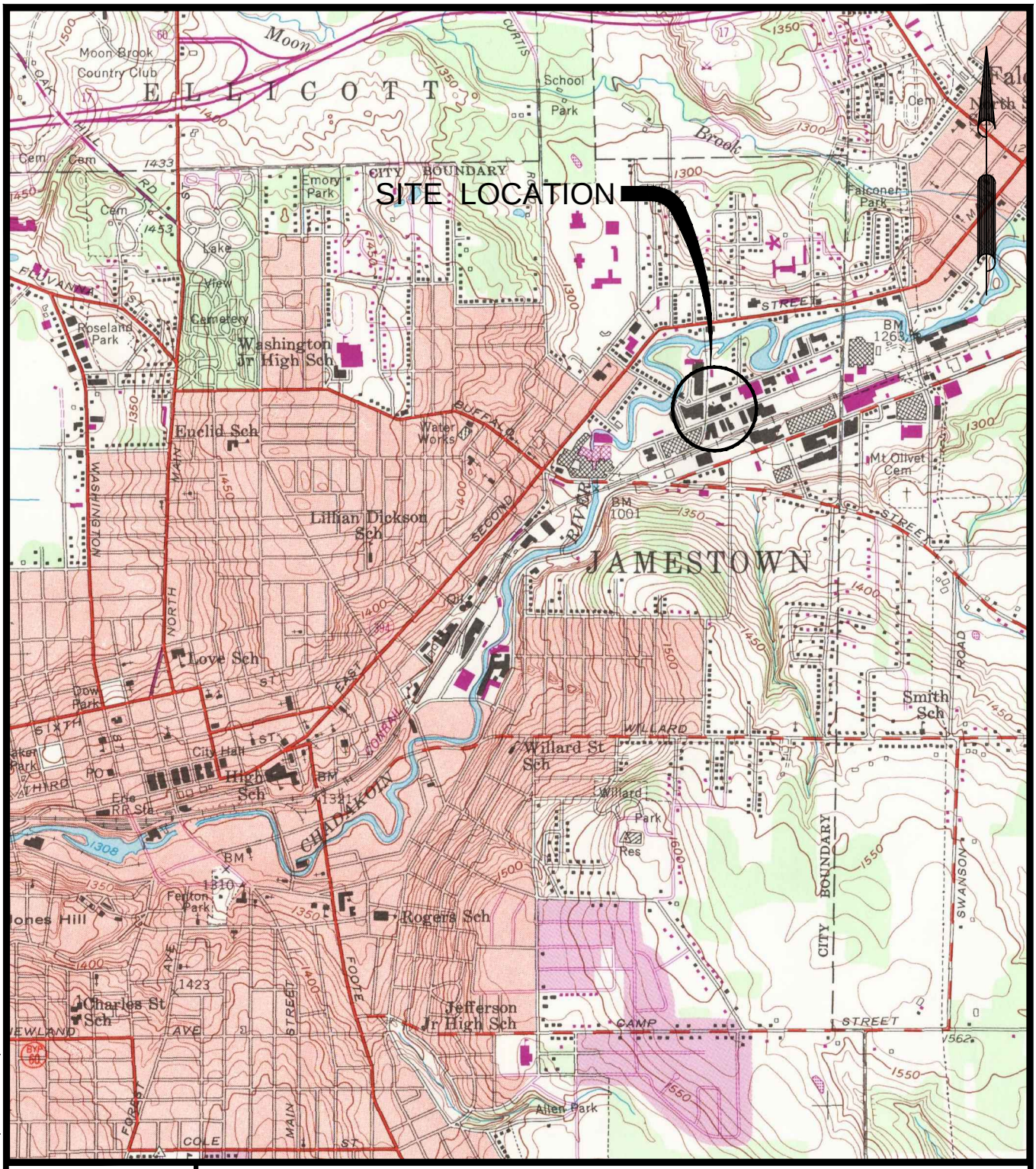
POTW Discharge Limit = 2,130 ug/L Total Toxic Organics (VOCs)

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.

System Carbon was changed out on June 7, 2011 and July 28, 2011.

Total VOCs in red exceeded the POTW Discharge Limit and were reported to the City of Jamestown BPU.

FIGURES



NEW YORK

QUADRANGLE LOCATION

0 2000 4000

SCALE IN FEET

REFERENCE:

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

URS

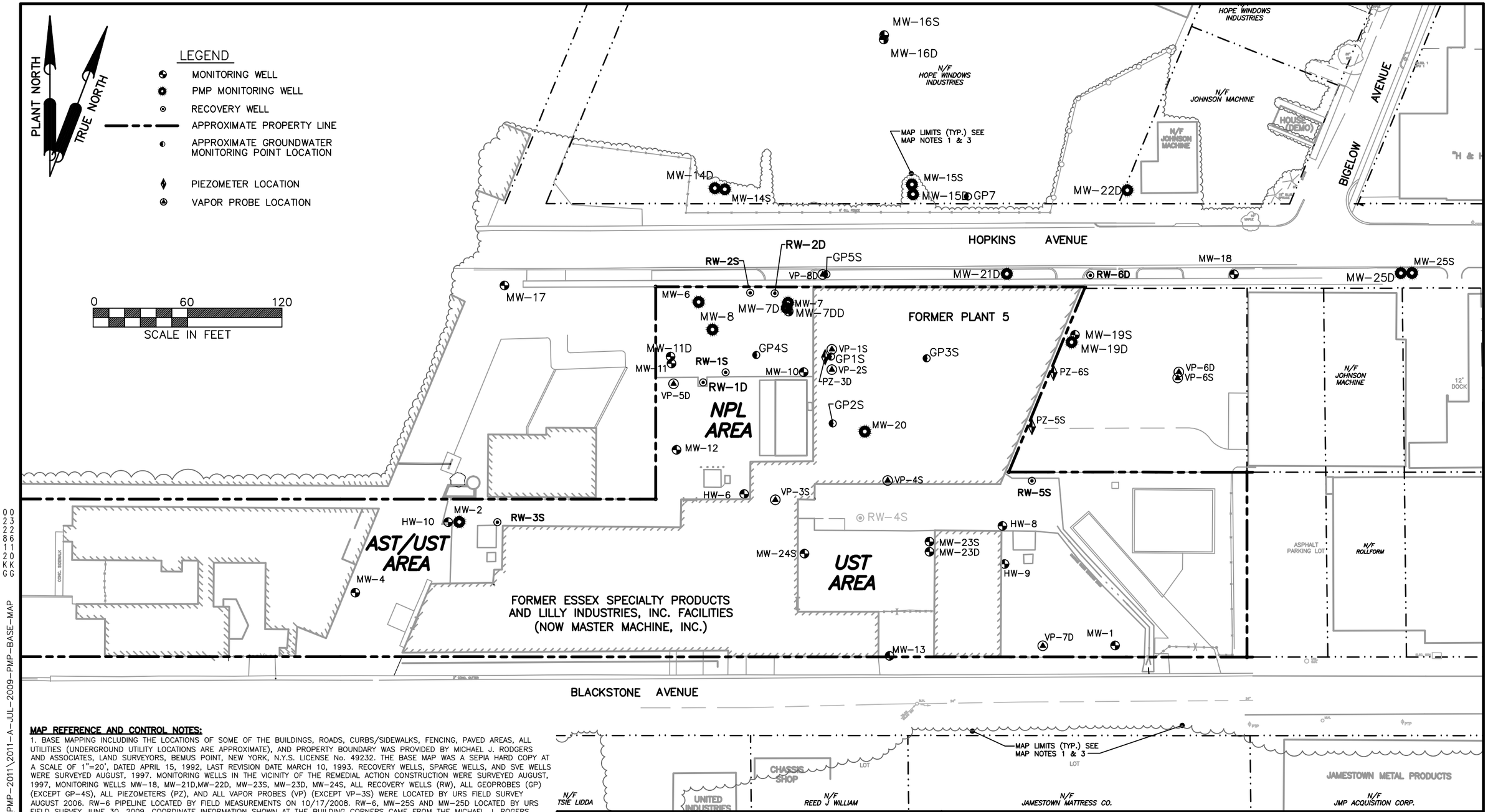
2011 ANNUAL PERFORMANCE MONITORING REPORT
SITE LOCATION MAP

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41569181	
SCALE: AS SHOWN	FIGURE NUMBER 1		REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2010\2000USGS.DWG

00302040101KG



MAP REFERENCE AND CONTROL NOTES:

1. BASE MAPPING INCLUDING THE LOCATIONS OF SOME OF THE BUILDINGS, ROADS, CURBS/SIDEWALKS, FENCING, PAVED AREAS, ALL UTILITIES (UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE), AND PROPERTY BOUNDARY WAS PROVIDED BY MICHAEL J. RODGERS AND ASSOCIATES, LAND SURVEYORS, BEMUS POINT, NEW YORK, N.Y.S. LICENSE No. 49232. THE BASE MAP WAS A SEPIA HARD COPY AT A SCALE OF 1"=20', DATED APRIL 15, 1992, LAST REVISION DATE MARCH 10, 1993. RECOVERY WELLS, SPARGE WELLS, AND SVE WELLS WERE SURVEYED AUGUST, 1997. MONITORING WELLS IN THE VICINITY OF THE REMEDIAL ACTION CONSTRUCTION WERE SURVEYED AUGUST, 1997, MONITORING WELLS MW-18, MW-21D,MW-22D, MW-23S, MW-23D, MW-24S, ALL RECOVERY WELLS (RW), ALL GEOPROBES (GP) (EXCEPT GP-4S), ALL PIEZOMETERS (PZ), AND ALL VAPOR PROBES (VP) (EXCEPT VP-3S) WERE LOCATED BY URS FIELD SURVEY AUGUST 2006. RW-6 PIPELINE LOCATED BY FIELD MEASUREMENTS ON 10/17/2008. RW-6, MW-25S AND MW-25D LOCATED BY URS FIELD SURVEY JUNE 30, 2009. COORDINATE INFORMATION SHOWN AT THE BUILDING CORNERS CAME FROM THE MICHAEL J. ROGERS SURVEY DONE ON JANUARY 9, 1998. ALL OTHER BUILDING CORNERS ARE APPROXIMATE. THE SITE AREA BEYOND THE 1998 SURVEY WAS MAPPED BY URS CORPORATION IN AUGUST 2006. THIS MAPPING USED THE SAME VERTICAL AND HORIZONTAL REFERENCE DATA AS THE PREVIOUS SURVEY. THE MAPPING WAS MERGED WITH THE 1998 DATA TO PRODUCE A COMPOSITE SITE BASE MAP. THE LIMITS OF THE COMPOSITE SURVEY MAP ARE SHOWN ON THE DRAWING. SEE MAP REFERENCE 3.

2. VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (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.

3. AREAS OUTSIDE OF CLOUD LINE: PROPERTY LINES AND MAPPING ADJACENT TO BIGELOW AVENUE, NORTH & SOUTH OF HOPKINS AVENUE & EAST OF BIGELOW AVENUE, AND SOUTH OF BLACKSTONE AVENUE WERE TAKEN FROM A VARIETY OF SOURCES INCLUDING SEPIA MYLAR SITE MAP (SEE REFERENCE 1), USGS 7.5 MINUTE TOPOGRAPHIC MAP – JAMESTOWN, NY, CITY OF JAMESTOWN TAX MAP RECORDS, AND URS FIELD RECONAISSANCE. LOCATIONS AND DIMENSIONS IN THESE AREAS ARE APPROXIMATE.

URS

PITTSBURGH, PENNSYLVANIA

2011 ANNUAL PERFORMANCE MONITORING REPORT
SITE PLAN

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC. — JOB NUMBER: 41569181

SCALE: AS SHOWN — FIGURE NUMBER 2 — REV 0

0023228611 20KKGG
FILE: \ESSEXHOP\2006-MAP\PMP-2011\2011-A-JUL-2009-PMP-BASE-MAP

PLANT NORTH
TRUE NORTH

LEGEND
- MONITORING WELL
- PMP MONITORING WELL
- RECOVERY WELL
- APPROXIMATE PROPERTY LINE
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- PIEZOMETER LOCATION
- VAPOR PROBE LOCATION

0 60 120
SCALE IN FEET

MW-16S 1268.05
N/F HOPE WINDOWS INDUSTRIES
HOPE WINDOWS INDUSTRIES
N/F JOHNSON MACHINE
HOUSE (DEMO)
BIGELOW AVENUE
MAP LIMITS (TYP.) SEE MAP NOTES 1 & 3
MW-15S 1267.90
GP7
1268.43
MW-14S
1269
1270
HOPKINS AVENUE
RW-2S 1265.74
GP5S
MW-17
MW-6 1269.44
MW-7 1269.74
MW-18 1267.10
MW-25S 1264.00
FORMER PLANT 5
1268
1269
1267.79
MW-19S
1268.51
PZ-6S
VP-6S 1267.22
1267
1266
1265
MW-1 1269.20
RW-1S 1264.81
GP4S 1269.67
VP-1S
GP1S
VP-2S
PZ-3D
MW-10
GP3S
1270
VP-5D
GP2S
1271
MW-20 1271.78
PZ-5S 1270.75
MW-12 1270.54
VP-4S
RW-5S
VP-3S
HW-6
HW-10
MW-2 1270.54
RW-3S
RW-4S
HW-8
MW-24S 1270.45
MW-23S 1272.44
1272
HW-9 1271.90
MW-4 1271.73
1271
FORMER ESSEX SPECIALTY PRODUCTS AND LILLY INDUSTRIES, INC. FACILITIES (NOW MASTER MACHINE, INC.)
MW-13
MW-1
ASPHALT PARKING LOT
N/F ROLLFORM
BLACKSTONE AVENUE
MAP LIMITS (TYP.) SEE MAP NOTES 1 & 3
CHASSIS SHOP
UNITED INDUSTRIES
N/F TSIE LIDDA
N/F REED J WILLIAM
N/F JAMESTOWN MATTRESS CO.
JAMESTOWN METAL PRODUCTS
N/F JMP ACQUISITION CORP.

MAP REFERENCE AND CONTROL NOTES:

1. BASE MAPPING INCLUDING THE LOCATIONS OF SOME OF THE BUILDINGS, ROADS, CURBS/SIDEWALKS, FENCING, PAVED AREAS, ALL UTILITIES (UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE), AND PROPERTY BOUNDARY WAS PROVIDED BY MICHAEL J. RODGERS AND ASSOCIATES, LAND SURVEYORS, BEMUS POINT, NEW YORK, N.Y.S. LICENSE No. 49232. THE BASE MAP WAS A SEPIA HARD COPY AT A SCALE OF 1"=20', DATED APRIL 15, 1992, LAST REVISION DATE MARCH 10, 1993. RECOVERY WELLS, SPARGE WELLS, AND SVE WELLS WERE SURVEYED AUGUST, 1997. MONITORING WELLS IN THE VICINITY OF THE REMEDIAL ACTION CONSTRUCTION WERE SURVEYED AUGUST, 1997, MONITORING WELLS MW-18, MW-21D,MW-22D, MW-23S, MW-23D, MW-24S, ALL RECOVERY WELLS (RW), ALL GEOPROBES (GP) (EXCEPT GP-4S), ALL PIEZOMETERS (PZ), AND ALL VAPOR PROBES (VP) (EXCEPT VP-3S) WERE LOCATED BY URS FIELD SURVEY AUGUST 2006. RW-6 PIPELINE LOCATED BY FIELD MEASUREMENTS ON 10/17/2008. RW-6, MW-25S AND MW-25D LOCATED BY URS FIELD SURVEY JUNE 30, 2009. COORDINATE INFORMATION SHOWN AT THE BUILDING CORNERS CAME FROM THE MICHAEL J. ROGERS SURVEY DONE ON JANUARY 9, 1998. ALL OTHER BUILDING CORNERS ARE APPROXIMATE. THE SITE AREA BEYOND THE 1998 SURVEY WAS MAPPED BY URS CORPORATION IN AUGUST 2006. THIS MAPPING USED THE SAME VERTICAL AND HORIZONTAL REFERENCE DATA AS THE PREVIOUS SURVEY. THE MAPPING WAS MERGED WITH THE 1998 DATA TO PRODUCE A COMPOSITE SITE BASE MAP. THE LIMITS OF THE COMPOSITE SURVEY MAP ARE SHOWN ON THE DRAWING. SEE MAP REFERENCE 3.

2. VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (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.

3. AREAS OUTSIDE OF CLOUD LINE: PROPERTY LINES AND MAPPING ADJACENT TO BIGELOW AVENUE, NORTH & SOUTH OF HOPKINS AVENUE & EAST OF BIGELOW AVENUE, AND SOUTH OF BLACKSTONE AVENUE WERE TAKEN FROM A VARIETY OF SOURCES INCLUDING SEPIA MYLAR SITE MAP (SEE REFERENCE 1), USGS 7.5 MINUTE TOPOGRAPHIC MAP – JAMESTOWN, NY, CITY OF JAMESTOWN TAX MAP RECORDS, AND URS FIELD RECONAISSANCE. LOCATIONS AND DIMENSIONS IN THESE AREAS ARE APPROXIMATE.

URS

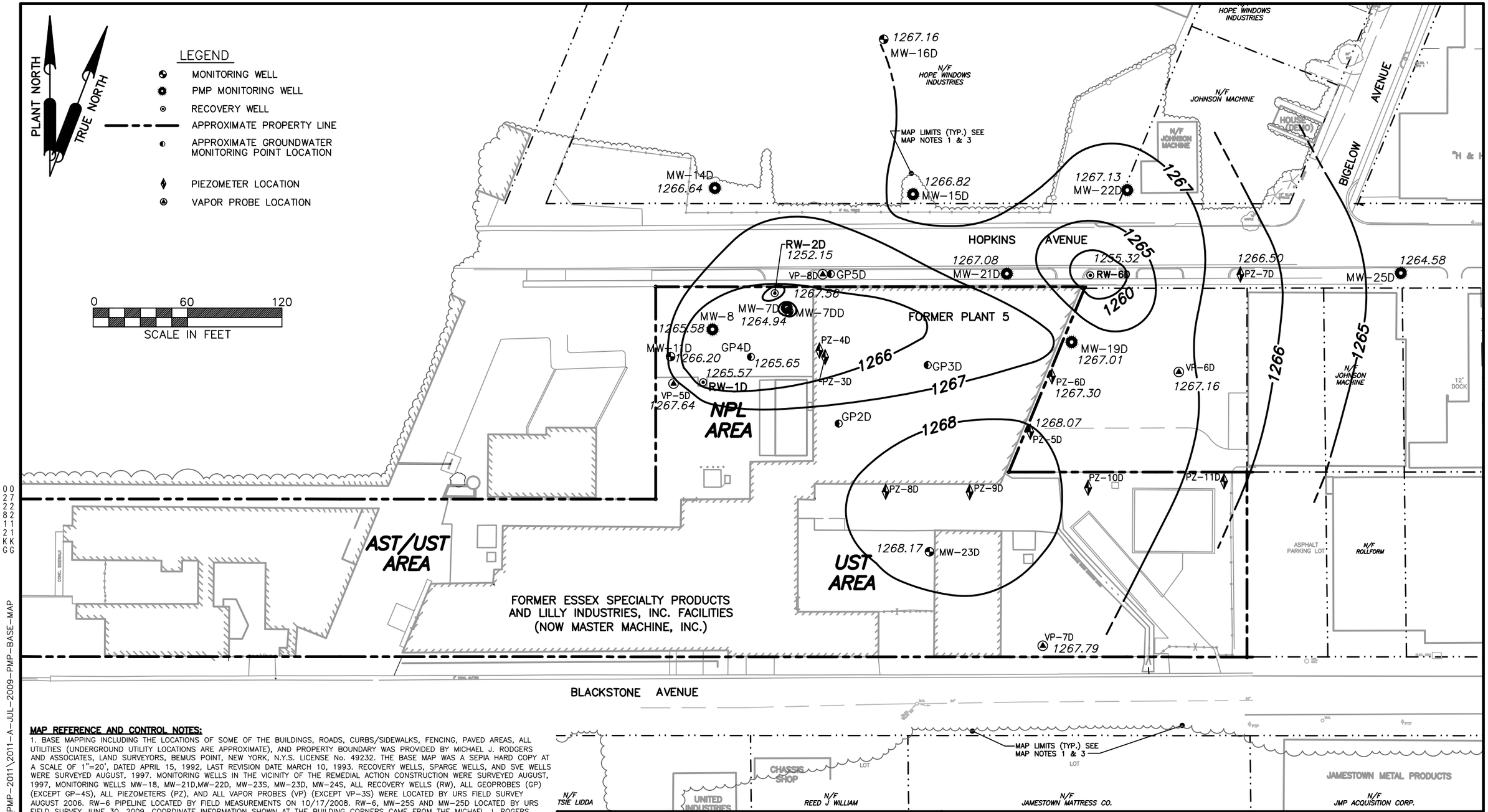
PITTSBURGH, PENNSYLVANIA

2011 ANNUAL PERFORMANCE MONITORING REPORT
SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE – MARCH 30, 2011

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41569181	
SCALE: AS SHOWN	FIGURE NUMBER 3		REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2011\2011-A-JUL-2009-PMP-BASE-MAP 00272281121 1KKGG



MAP REFERENCE AND CONTROL NOTES:

1. BASE MAPPING INCLUDING THE LOCATIONS OF SOME OF THE BUILDINGS, ROADS, CURBS/SIDEWALKS, FENCING, PAVED AREAS, ALL UTILITIES (UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE), AND PROPERTY BOUNDARY WAS PROVIDED BY MICHAEL J. RODGERS AND ASSOCIATES, LAND SURVEYORS, BEMUS POINT, NEW YORK, N.Y.S. LICENSE No. 49232. THE BASE MAP WAS A SEPIA HARD COPY AT A SCALE OF 1"=20', DATED APRIL 15, 1992, LAST REVISION DATE MARCH 10, 1993. RECOVERY WELLS, SPARGE WELLS, AND SVE WELLS WERE SURVEYED AUGUST, 1997. MONITORING WELLS IN THE VICINITY OF THE REMEDIAL ACTION CONSTRUCTION WERE SURVEYED AUGUST, 1997, MONITORING WELLS MW-18, MW-21D,MW-22D, MW-23S, MW-23D, MW-24S, ALL RECOVERY WELLS (RW), ALL GEOPROBES (GP) (EXCEPT GP-4S), ALL PIEZOMETERS (PZ), AND ALL VAPOR PROBES (VP) (EXCEPT VP-3S) WERE LOCATED BY URS FIELD SURVEY AUGUST 2006. RW-6 PIPELINE LOCATED BY FIELD MEASUREMENTS ON 10/17/2008. RW-6, MW-25S AND MW-25D LOCATED BY URS FIELD SURVEY JUNE 30, 2009. COORDINATE INFORMATION SHOWN AT THE BUILDING CORNERS CAME FROM THE MICHAEL J. ROGERS SURVEY DONE ON JANUARY 9, 1998. ALL OTHER BUILDING CORNERS ARE APPROXIMATE. THE SITE AREA BEYOND THE 1998 SURVEY WAS MAPPED BY URS CORPORATION IN AUGUST 2006. THIS MAPPING USED THE SAME VERTICAL AND HORIZONTAL REFERENCE DATA AS THE PREVIOUS SURVEY. THE MAPPING WAS MERGED WITH THE 1998 DATA TO PRODUCE A COMPOSITE SITE BASE MAP. THE LIMITS OF THE COMPOSITE SURVEY MAP ARE SHOWN ON THE DRAWING. SEE MAP REFERENCE 3.

2. VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (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.

3. AREAS OUTSIDE OF CLOUD LINE: PROPERTY LINES AND MAPPING ADJACENT TO BIGELOW AVENUE, NORTH & SOUTH OF HOPKINS AVENUE & EAST OF BIGELOW AVENUE, AND SOUTH OF BLACKSTONE AVENUE WERE TAKEN FROM A VARIETY OF SOURCES INCLUDING SEPIA MYLAR SITE MAP (SEE REFERENCE 1), USGS 7.5 MINUTE TOPOGRAPHIC MAP – JAMESTOWN, NY, CITY OF JAMESTOWN TAX MAP RECORDS, AND URS FIELD RECONAISSANCE. LOCATIONS AND DIMENSIONS IN THESE AREAS ARE APPROXIMATE.

URS

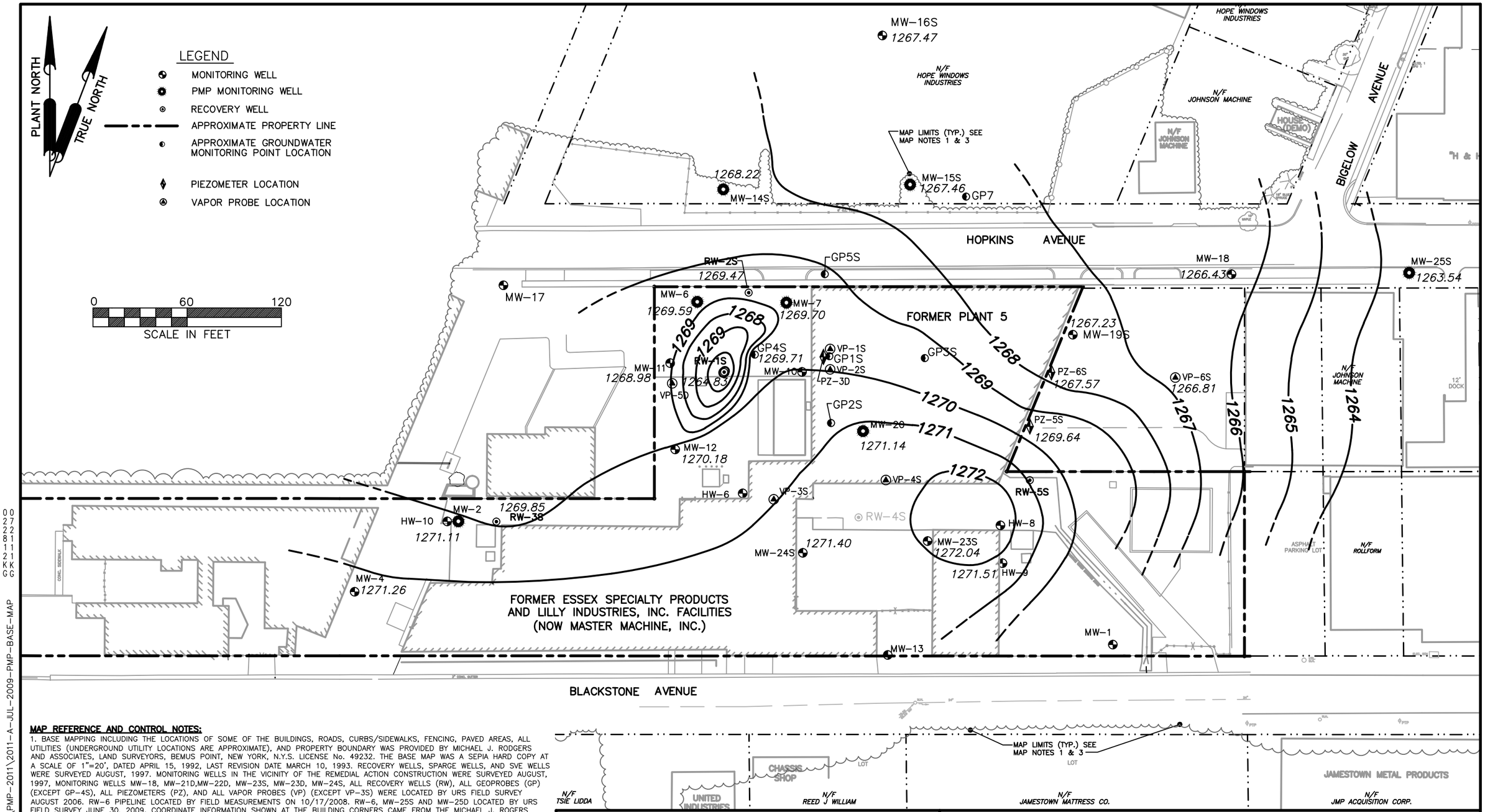
PITTSBURGH, PENNSYLVANIA

2011 ANNUAL PERFORMANCE MONITORING REPORT
DEEP GROUNDWATER POTENTIOMETRIC SURFACE – MARCH 30, 2011

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41569181	
SCALE: AS SHOWN	FIGURE NUMBER 4		REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2011\2011-A-JUL-2009-PMP-BASE-MAP
00 27 22 82 11 21 KK GG



MAP REFERENCE AND CONTROL NOTES:

1. BASE MAPPING INCLUDING THE LOCATIONS OF SOME OF THE BUILDINGS, ROADS, CURBS/SIDEWALKS, FENCING, PAVED AREAS, ALL UTILITIES (UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE), AND PROPERTY BOUNDARY WAS PROVIDED BY MICHAEL J. RODGERS AND ASSOCIATES, LAND SURVEYORS, BEMUS POINT, NEW YORK, N.Y.S. LICENSE No. 49232. THE BASE MAP WAS A SEPIA HARD COPY AT A SCALE OF 1"=20', DATED APRIL 15, 1992, LAST REVISION DATE MARCH 10, 1993. RECOVERY WELLS, SPARGE WELLS, AND SVE WELLS WERE SURVEYED AUGUST, 1997. MONITORING WELLS IN THE VICINITY OF THE REMEDIAL ACTION CONSTRUCTION WERE SURVEYED AUGUST, 1997, MONITORING WELLS MW-18, MW-21D,MW-22D, MW-23S, MW-23D, MW-24S, ALL RECOVERY WELLS (RW), ALL GEOPROBES (GP) (EXCEPT GP-4S), ALL PIEZOMETERS (PZ), AND ALL VAPOR PROBES (VP) (EXCEPT VP-3S) WERE LOCATED BY URS FIELD SURVEY AUGUST 2006. RW-6 PIPELINE LOCATED BY FIELD MEASUREMENTS ON 10/17/2008. RW-6, MW-25S AND MW-25D LOCATED BY URS FIELD SURVEY JUNE 30, 2009. COORDINATE INFORMATION SHOWN AT THE BUILDING CORNERS CAME FROM THE MICHAEL J. ROGERS SURVEY DONE ON JANUARY 9, 1998. ALL OTHER BUILDING CORNERS ARE APPROXIMATE. THE SITE AREA BEYOND THE 1998 SURVEY WAS MAPPED BY URS CORPORATION IN AUGUST 2006. THIS MAPPING USED THE SAME VERTICAL AND HORIZONTAL REFERENCE DATA AS THE PREVIOUS SURVEY. THE MAPPING WAS MERGED WITH THE 1998 DATA TO PRODUCE A COMPOSITE SITE BASE MAP. THE LIMITS OF THE COMPOSITE SURVEY MAP ARE SHOWN ON THE DRAWING. SEE MAP REFERENCE 3.

2. VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (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.

3. AREAS OUTSIDE OF CLOUD LINE: PROPERTY LINES AND MAPPING ADJACENT TO BIGELOW AVENUE, NORTH & SOUTH OF HOPKINS AVENUE & EAST OF BIGELOW AVENUE, AND SOUTH OF BLACKSTONE AVENUE WERE TAKEN FROM A VARIETY OF SOURCES INCLUDING SEPIA MYLAR SITE MAP (SEE REFERENCE 1), USGS 7.5 MINUTE TOPOGRAPHIC MAP – JAMESTOWN, NY, CITY OF JAMESTOWN TAX MAP RECORDS, AND URS FIELD RECONAISSANCE. LOCATIONS AND DIMENSIONS IN THESE AREAS ARE APPROXIMATE.

URS

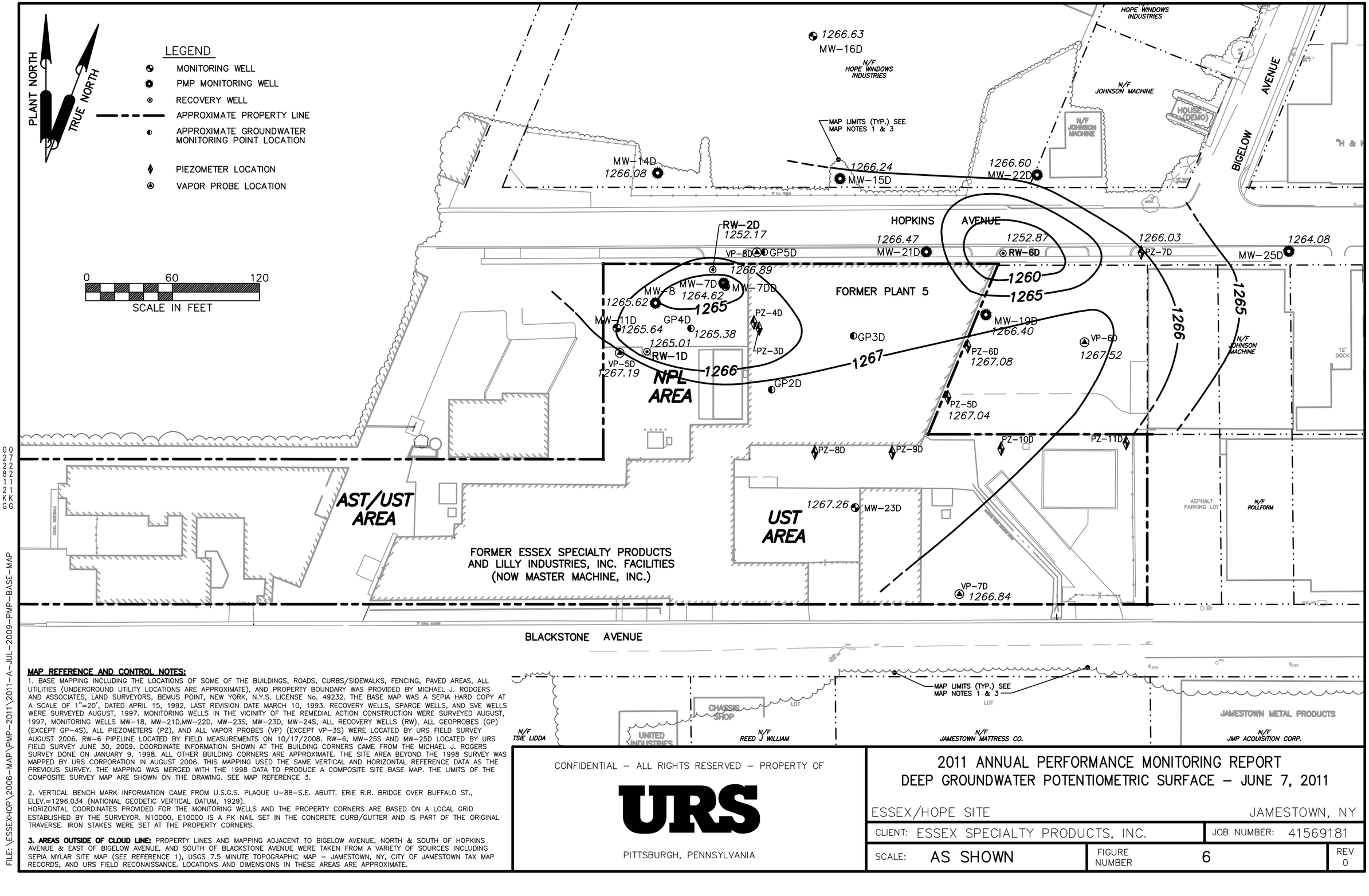
PITTSBURGH, PENNSYLVANIA

2011 ANNUAL PERFORMANCE MONITORING REPORT
SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE – JUNE 7, 2011

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41569181	
SCALE: AS SHOWN	FIGURE NUMBER 5		REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2011\2011-A-JUL-2009-PMP-BASE-MAP 00272281121KKGG



MAP REFERENCE AND CONTROL NOTES:

1. BASE MAPPING INCLUDING THE LOCATIONS OF SOME OF THE BUILDINGS, ROADS, CURBS/SIDEWALKS, FENCING, PAVED AREAS, ALL UTILITIES (UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE), AND PROPERTY BOUNDARY WAS PROVIDED BY MICHAEL J. RODGERS AND ASSOCIATES, LAND SURVEYORS, BEMUS POINT, NEW YORK, N.Y.S. LICENSE No. 49232. THE BASE MAP WAS A SEPIA HARD COPY AT A SCALE OF 1"=20', DATED APRIL 15, 1992, LAST REVISION DATE MARCH 10, 1993. RECOVERY WELLS, SPARGE WELLS, AND SVE WELLS WERE SURVEYED AUGUST, 1997. MONITORING WELLS IN THE VICINITY OF THE REMEDIAL ACTION CONSTRUCTION WERE SURVEYED AUGUST, 1997, MONITORING WELLS MW-18, MW-21D,MW-22D, MW-23S, MW-23D, MW-24S, ALL RECOVERY WELLS (RW), ALL GEOPROBES (GP) (EXCEPT GP-4S), ALL PIEZOMETERS (PZ), AND ALL VAPOR PROBES (VP) (EXCEPT VP-3S) WERE LOCATED BY URS FIELD SURVEY AUGUST 2006. RW-6 PIPELINE LOCATED BY FIELD MEASUREMENTS ON 10/17/2008. RW-6, MW-25S AND MW-25D LOCATED BY URS FIELD SURVEY JUNE 30, 2009. COORDINATE INFORMATION SHOWN AT THE BUILDING CORNERS CAME FROM THE MICHAEL J. ROGERS SURVEY DONE ON JANUARY 9, 1998. ALL OTHER BUILDING CORNERS ARE APPROXIMATE. THE SITE AREA BEYOND THE 1998 SURVEY WAS MAPPED BY URS CORPORATION IN AUGUST 2006. THIS MAPPING USED THE SAME VERTICAL AND HORIZONTAL REFERENCE DATA AS THE PREVIOUS SURVEY. THE MAPPING WAS MERGED WITH THE 1998 DATA TO PRODUCE A COMPOSITE SITE BASE MAP. THE LIMITS OF THE COMPOSITE SURVEY MAP ARE SHOWN ON THE DRAWING. SEE MAP REFERENCE 3.

2. VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (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.

3. AREAS OUTSIDE OF CLOUD LINE: PROPERTY LINES AND MAPPING ADJACENT TO BIGELOW AVENUE, NORTH & SOUTH OF HOPKINS AVENUE & EAST OF BIGELOW AVENUE, AND SOUTH OF BLACKSTONE AVENUE WERE TAKEN FROM A VARIETY OF SOURCES INCLUDING SEPIA MYLAR SITE MAP (SEE REFERENCE 1), USGS 7.5 MINUTE TOPOGRAPHIC MAP – JAMESTOWN, NY, CITY OF JAMESTOWN TAX MAP RECORDS, AND URS FIELD RECONAISSANCE. LOCATIONS AND DIMENSIONS IN THESE AREAS ARE APPROXIMATE.

URS

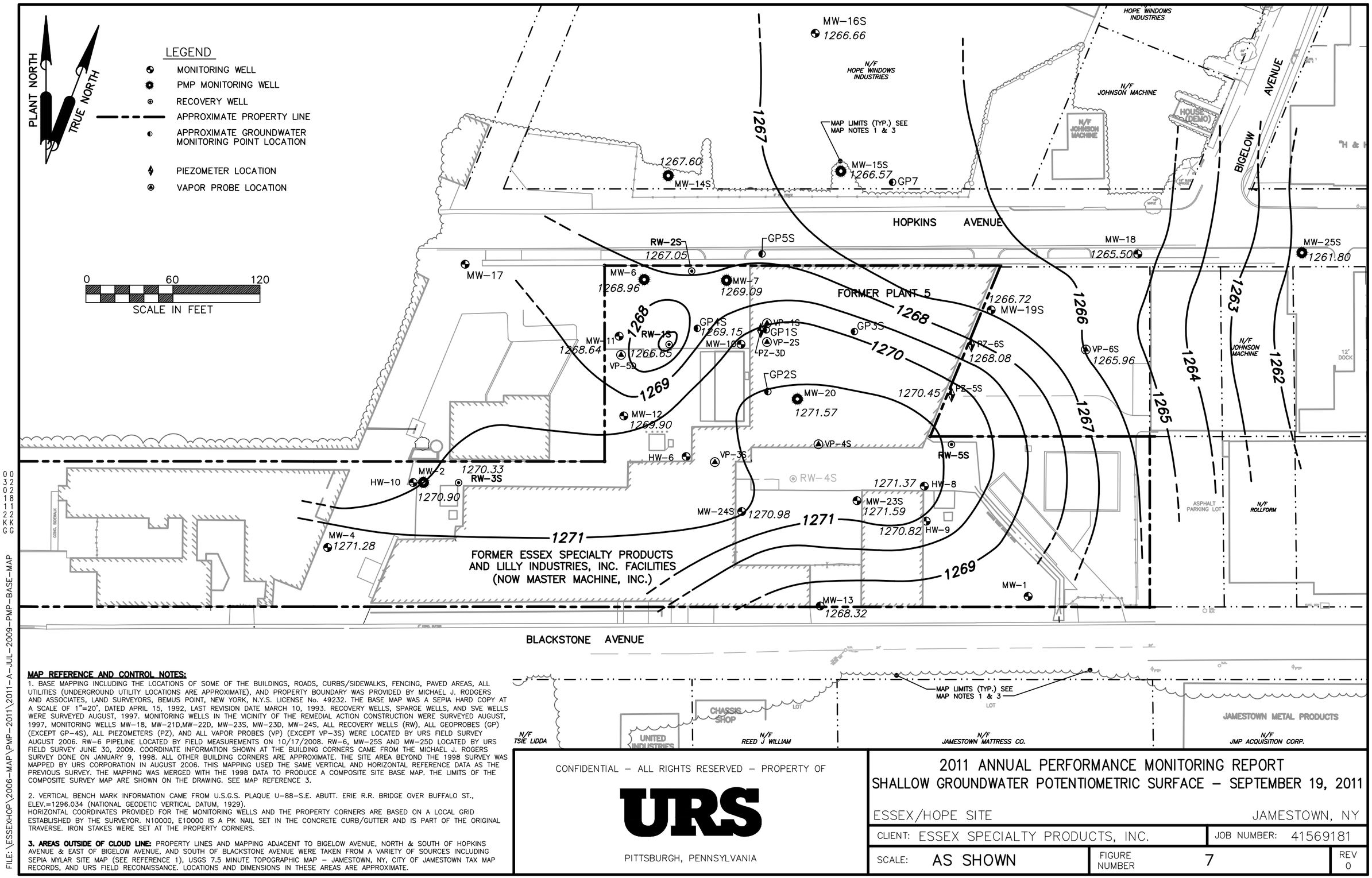
PITTSBURGH, PENNSYLVANIA

2011 ANNUAL PERFORMANCE MONITORING REPORT
DEEP GROUNDWATER POTENTIOMETRIC SURFACE – JUNE 7, 2011

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41569181	
SCALE: AS SHOWN	FIGURE NUMBER 6		REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2011\2011-A-JUL-2009-PMP-BASE-MAP
0027228211KKGG



MAP REFERENCE AND CONTROL NOTES:

1. BASE MAPPING INCLUDING THE LOCATIONS OF SOME OF THE BUILDINGS, ROADS, CURBS/SIDEWALKS, FENCING, PAVED AREAS, ALL UTILITIES (UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE), AND PROPERTY BOUNDARY WAS PROVIDED BY MICHAEL J. RODGERS AND ASSOCIATES, LAND SURVEYORS, BEMUS POINT, NEW YORK, N.Y.S. LICENSE No. 49232. THE BASE MAP WAS A SEPIA HARD COPY AT A SCALE OF 1"=20', DATED APRIL 15, 1992, LAST REVISION DATE MARCH 10, 1993. RECOVERY WELLS, SPARGE WELLS, AND SVE WELLS WERE SURVEYED AUGUST, 1997. MONITORING WELLS IN THE VICINITY OF THE REMEDIAL ACTION CONSTRUCTION WERE SURVEYED AUGUST, 1997, MONITORING WELLS MW-18, MW-21D,MW-22D, MW-23S, MW-23D, MW-24S, ALL RECOVERY WELLS (RW), ALL GEOPROBES (GP) (EXCEPT GP-4S), ALL PIEZOMETERS (PZ), AND ALL VAPOR PROBES (VP) (EXCEPT VP-3S) WERE LOCATED BY URS FIELD SURVEY AUGUST 2006. RW-6 PIPELINE LOCATED BY FIELD MEASUREMENTS ON 10/17/2008. RW-6, MW-25S AND MW-25D LOCATED BY URS FIELD SURVEY JUNE 30, 2009. COORDINATE INFORMATION SHOWN AT THE BUILDING CORNERS CAME FROM THE MICHAEL J. ROGERS SURVEY DONE ON JANUARY 9, 1998. ALL OTHER BUILDING CORNERS ARE APPROXIMATE. THE SITE AREA BEYOND THE 1998 SURVEY WAS MAPPED BY URS CORPORATION IN AUGUST 2006. THIS MAPPING USED THE SAME VERTICAL AND HORIZONTAL REFERENCE DATA AS THE PREVIOUS SURVEY. THE MAPPING WAS MERGED WITH THE 1998 DATA TO PRODUCE A COMPOSITE SITE BASE MAP. THE LIMITS OF THE COMPOSITE SURVEY MAP ARE SHOWN ON THE DRAWING. SEE MAP REFERENCE 3.

2. VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (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.

3. AREAS OUTSIDE OF CLOUD LINE: PROPERTY LINES AND MAPPING ADJACENT TO BIGELOW AVENUE, NORTH & SOUTH OF HOPKINS AVENUE & EAST OF BIGELOW AVENUE, AND SOUTH OF BLACKSTONE AVENUE WERE TAKEN FROM A VARIETY OF SOURCES INCLUDING SEPIA MYLAR SITE MAP (SEE REFERENCE 1), USGS 7.5 MINUTE TOPOGRAPHIC MAP – JAMESTOWN, NY, CITY OF JAMESTOWN TAX MAP RECORDS, AND URS FIELD RECONAISSANCE. LOCATIONS AND DIMENSIONS IN THESE AREAS ARE APPROXIMATE.

URS

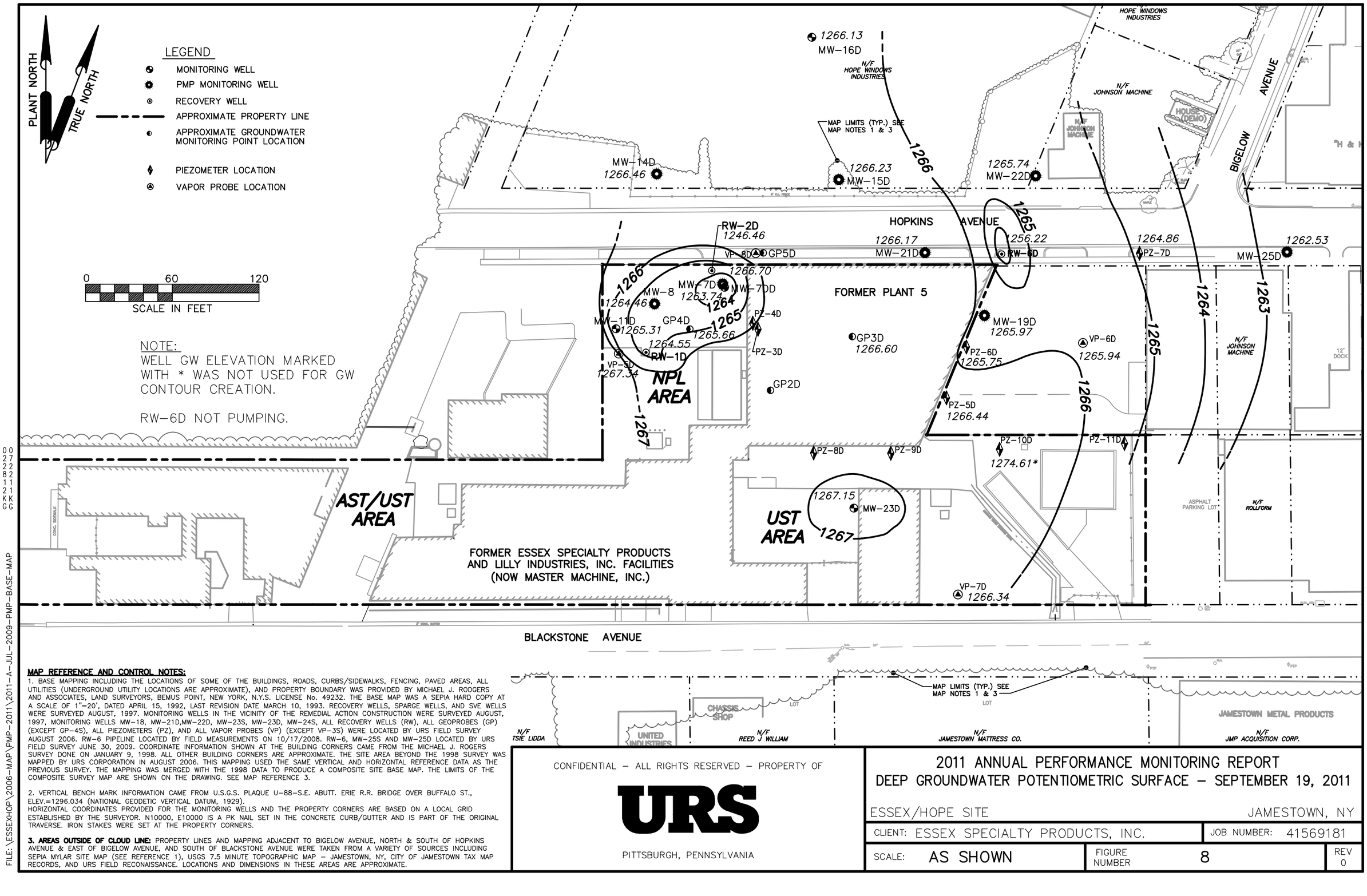
PITTSBURGH, PENNSYLVANIA

2011 ANNUAL PERFORMANCE MONITORING REPORT
SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE – SEPTEMBER 19, 2011

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41569181	
SCALE: AS SHOWN	FIGURE NUMBER 7		REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2011\2011-A-JUL-2009-PMP-BASE-MAP 00320218122KKGG



MAP REFERENCE AND CONTROL NOTES:

1. BASE MAPPING INCLUDING THE LOCATIONS OF SOME OF THE BUILDINGS, ROADS, CURBS/SIDEWALKS, FENCING, PAVED AREAS, ALL UTILITIES (UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE), AND PROPERTY BOUNDARY WAS PROVIDED BY MICHAEL J. RODGERS AND ASSOCIATES, LAND SURVEYORS, BEMUS POINT, NEW YORK, N.Y.S. LICENSE No. 49232. THE BASE MAP WAS A SEPIA HARD COPY AT A SCALE OF 1"=20', DATED APRIL 15, 1992, LAST REVISION DATE MARCH 10, 1993. RECOVERY WELLS, SPARGE WELLS, AND SVE WELLS WERE SURVEYED AUGUST, 1997. MONITORING WELLS IN THE VICINITY OF THE REMEDIAL ACTION CONSTRUCTION WERE SURVEYED AUGUST, 1997, MONITORING WELLS MW-18, MW-21D,MW-22D, MW-23S, MW-23D, MW-24S, ALL RECOVERY WELLS (RW), ALL GEOPROBES (GP) (EXCEPT GP-4S), ALL PIEZOMETERS (PZ), AND ALL VAPOR PROBES (VP) (EXCEPT VP-3S) WERE LOCATED BY URS FIELD SURVEY AUGUST 2006. RW-6 PIPELINE LOCATED BY FIELD MEASUREMENTS ON 10/17/2008. RW-6, MW-25S AND MW-25D LOCATED BY URS FIELD SURVEY JUNE 30, 2009. COORDINATE INFORMATION SHOWN AT THE BUILDING CORNERS CAME FROM THE MICHAEL J. ROGERS SURVEY DONE ON JANUARY 9, 1998. ALL OTHER BUILDING CORNERS ARE APPROXIMATE. THE SITE AREA BEYOND THE 1998 SURVEY WAS MAPPED BY URS CORPORATION IN AUGUST 2006. THIS MAPPING USED THE SAME VERTICAL AND HORIZONTAL REFERENCE DATA AS THE PREVIOUS SURVEY. THE MAPPING WAS MERGED WITH THE 1998 DATA TO PRODUCE A COMPOSITE SITE BASE MAP. THE LIMITS OF THE COMPOSITE SURVEY MAP ARE SHOWN ON THE DRAWING. SEE MAP REFERENCE 3.

2. VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (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.

3. AREAS OUTSIDE OF CLOUD LINE: PROPERTY LINES AND MAPPING ADJACENT TO BIGELOW AVENUE, NORTH & SOUTH OF HOPKINS AVENUE & EAST OF BIGELOW AVENUE, AND SOUTH OF BLACKSTONE AVENUE WERE TAKEN FROM A VARIETY OF SOURCES INCLUDING SEPIA MYLAR SITE MAP (SEE REFERENCE 1), USGS 7.5 MINUTE TOPOGRAPHIC MAP – JAMESTOWN, NY, CITY OF JAMESTOWN TAX MAP RECORDS, AND URS FIELD RECONAISSANCE. LOCATIONS AND DIMENSIONS IN THESE AREAS ARE APPROXIMATE.

URS

PITTSBURGH, PENNSYLVANIA

2011 ANNUAL PERFORMANCE MONITORING REPORT
DEEP GROUNDWATER POTENTIOMETRIC SURFACE – SEPTEMBER 19, 2011

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41569181	
SCALE: AS SHOWN	FIGURE NUMBER 8		REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2011\2011-A-JUL-2009-PMP-BASE-MAP
00 27 22 82 11 21 KK GG

PLANT NORTH
TRUE NORTH

LEGEND
- MONITORING WELL
- PMP MONITORING WELL
- RECOVERY WELL
- APPROXIMATE PROPERTY LINE
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- PIEZOMETER LOCATION
- VAPOR PROBE LOCATION

0 60 120
SCALE IN FEET

MW-16S 1267.62
N/F HOPE WINDOWS INDUSTRIES
HOPE WINDOWS INDUSTRIES
N/F JOHNSON MACHINE
HOUSE (DEMO)
BIGELOW AVENUE
MAP LIMITS (TYP.) SEE MAP NOTES 1 & 3
MW-15S 1267.48
GP7
1267.93
MW-14S
HOPKINS AVENUE
RW-2S 1267.23
GP5S
MW-17
MW-6 1269.29
MW-7 1269.49
MW-18 1266.39
MW-25S 1263.40
FORMER PLANT 5
MW-19S 1267.79
1268.39
MW-11
RW-1S
GP4S 1269.61
MW-10
VP-1S
GP1S
VP-2S
PZ-3D
VP-5D
GP3S
PZ-6S 1268.36
VP-6S 1267.20
GP2S
MW-20 1272.53
1271.25
PZ-5S
MW-12 1270.58
HW-6
VP-4S
VP-3S
RW-5S
1273
RW-4S
1273.36
HW-8
MW-23S
MW-24S 1272.52
1273.12
1272.71
HW-9
HW-10 1271.61
MW-2
1268.99
RW-3S
MW-4 1271.69
FORMER ESSEX SPECIALTY PRODUCTS AND LILLY INDUSTRIES, INC. FACILITIES (NOW MASTER MACHINE, INC.)
MW-13 1267.50
MW-1
ASPHALT PARKING LOT
N/F ROLLFORM
BLACKSTONE AVENUE
CHASSIS SHOP
UNITED INDUSTRIES
N/F TSIE LIDDA
N/F REED J WILLIAM
N/F JAMESTOWN MATTRESS CO.
JAMESTOWN METAL PRODUCTS
N/F JMP ACQUISITION CORP.
MAP LIMITS (TYP.) SEE MAP NOTES 1 & 3

1267 1268 1269 1270 1271 1272 1273 1265 1264 1266

MAP REFERENCE AND CONTROL NOTES:

1. BASE MAPPING INCLUDING THE LOCATIONS OF SOME OF THE BUILDINGS, ROADS, CURBS/SIDEWALKS, FENCING, PAVED AREAS, ALL UTILITIES (UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE), AND PROPERTY BOUNDARY WAS PROVIDED BY MICHAEL J. RODGERS AND ASSOCIATES, LAND SURVEYORS, BEMUS POINT, NEW YORK, N.Y.S. LICENSE No. 49232. THE BASE MAP WAS A SEPIA HARD COPY AT A SCALE OF 1"=20', DATED APRIL 15, 1992, LAST REVISION DATE MARCH 10, 1993. RECOVERY WELLS, SPARGE WELLS, AND SVE WELLS WERE SURVEYED AUGUST, 1997. MONITORING WELLS IN THE VICINITY OF THE REMEDIAL ACTION CONSTRUCTION WERE SURVEYED AUGUST, 1997, MONITORING WELLS MW-18, MW-21D,MW-22D, MW-23S, MW-23D, MW-24S, ALL RECOVERY WELLS (RW), ALL GEOPROBES (GP) (EXCEPT GP-4S), ALL PIEZOMETERS (PZ), AND ALL VAPOR PROBES (VP) (EXCEPT VP-3S) WERE LOCATED BY URS FIELD SURVEY AUGUST 2006. RW-6 PIPELINE LOCATED BY FIELD MEASUREMENTS ON 10/17/2008. RW-6, MW-25S AND MW-25D LOCATED BY URS FIELD SURVEY JUNE 30, 2009. COORDINATE INFORMATION SHOWN AT THE BUILDING CORNERS CAME FROM THE MICHAEL J. ROGERS SURVEY DONE ON JANUARY 9, 1998. ALL OTHER BUILDING CORNERS ARE APPROXIMATE. THE SITE AREA BEYOND THE 1998 SURVEY WAS MAPPED BY URS CORPORATION IN AUGUST 2006. THIS MAPPING USED THE SAME VERTICAL AND HORIZONTAL REFERENCE DATA AS THE PREVIOUS SURVEY. THE MAPPING WAS MERGED WITH THE 1998 DATA TO PRODUCE A COMPOSITE SITE BASE MAP. THE LIMITS OF THE COMPOSITE SURVEY MAP ARE SHOWN ON THE DRAWING. SEE MAP REFERENCE 3.

2. VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (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.

3. AREAS OUTSIDE OF CLOUD LINE: PROPERTY LINES AND MAPPING ADJACENT TO BIGELOW AVENUE, NORTH & SOUTH OF HOPKINS AVENUE & EAST OF BIGELOW AVENUE, AND SOUTH OF BLACKSTONE AVENUE WERE TAKEN FROM A VARIETY OF SOURCES INCLUDING SEPIA MYLAR SITE MAP (SEE REFERENCE 1), USGS 7.5 MINUTE TOPOGRAPHIC MAP – JAMESTOWN, NY, CITY OF JAMESTOWN TAX MAP RECORDS, AND URS FIELD RECONAISSANCE. LOCATIONS AND DIMENSIONS IN THESE AREAS ARE APPROXIMATE.

FILE: \ESSEXHOP\2006-MAP\PMP-2011\2011-A-JUL-2009-PMP-BASE-MAP 00320218122KKGG

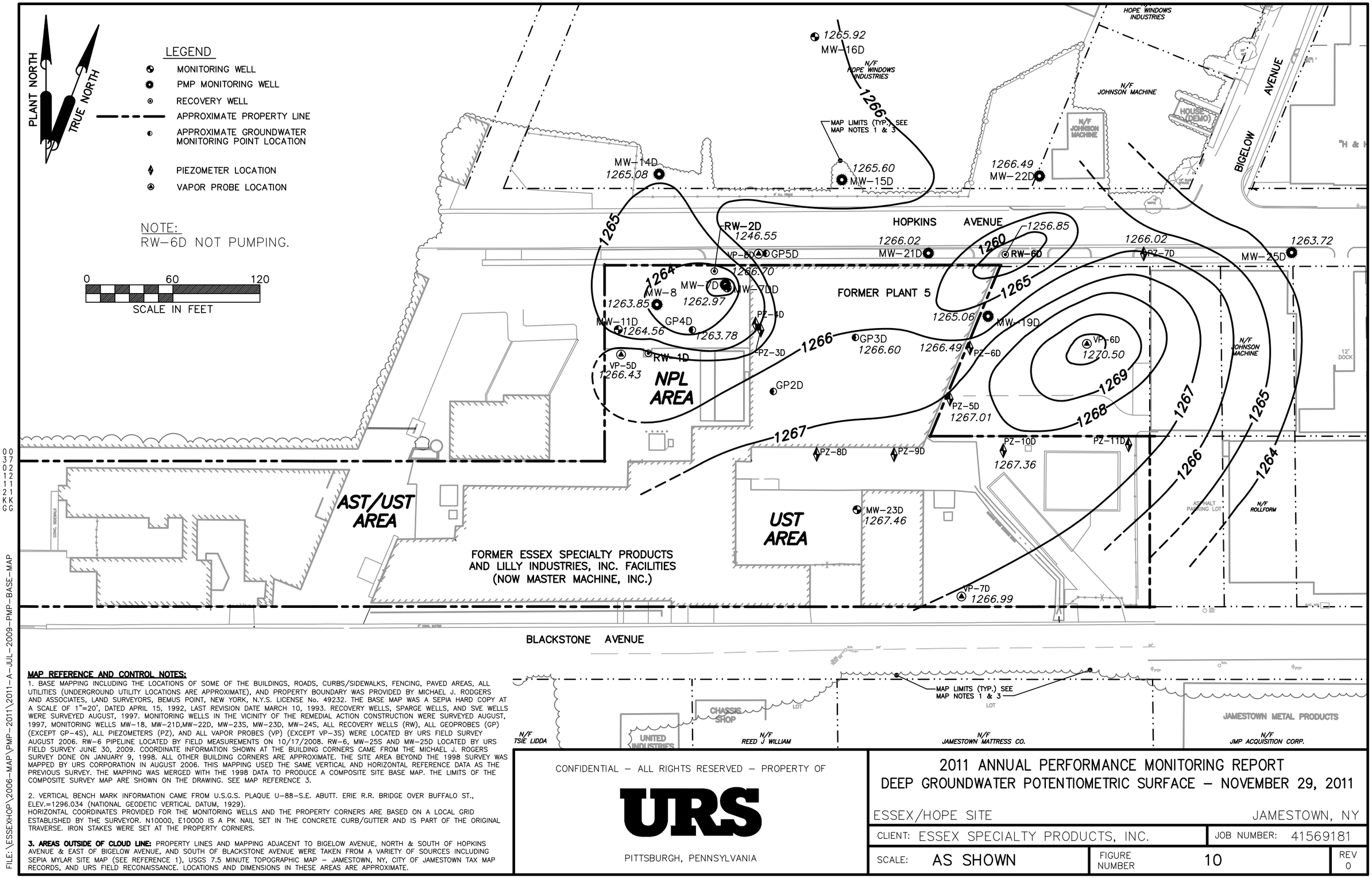
URS

PITTSBURGH, PENNSYLVANIA

2011 ANNUAL PERFORMANCE MONITORING REPORT
SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE – NOVEMBER 29, 2011

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41569181	
SCALE: AS SHOWN	FIGURE NUMBER 9		REV 0



MAP REFERENCE AND CONTROL NOTES:

1. BASE MAPPING INCLUDING THE LOCATIONS OF SOME OF THE BUILDINGS, ROADS, CURBS/SIDEWALKS, FENCING, PAVED AREAS, ALL UTILITIES (UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE), AND PROPERTY BOUNDARY WAS PROVIDED BY MICHAEL J. RODGERS AND ASSOCIATES, LAND SURVEYORS, BEMUS POINT, NEW YORK, N.Y.S. LICENSE No. 49232. THE BASE MAP WAS A SEPIA HARD COPY AT A SCALE OF 1"=20', DATED APRIL 15, 1992, LAST REVISION DATE MARCH 10, 1993. RECOVERY WELLS, SPARGE WELLS, AND SVE WELLS WERE SURVEYED AUGUST, 1997. MONITORING WELLS IN THE VICINITY OF THE REMEDIAL ACTION CONSTRUCTION WERE SURVEYED AUGUST, 1997, MONITORING WELLS MW-18, MW-21D,MW-22D, MW-23S, MW-23D, MW-24S, ALL RECOVERY WELLS (RW), ALL GEOPROBES (GP) (EXCEPT GP-4S), ALL PIEZOMETERS (PZ), AND ALL VAPOR PROBES (VP) (EXCEPT VP-3S) WERE LOCATED BY URS FIELD SURVEY AUGUST 2006. RW-6 PIPELINE LOCATED BY FIELD MEASUREMENTS ON 10/17/2008. RW-6, MW-25S AND MW-25D LOCATED BY URS FIELD SURVEY JUNE 30, 2009. COORDINATE INFORMATION SHOWN AT THE BUILDING CORNERS CAME FROM THE MICHAEL J. ROGERS SURVEY DONE ON JANUARY 9, 1998. ALL OTHER BUILDING CORNERS ARE APPROXIMATE. THE SITE AREA BEYOND THE 1998 SURVEY WAS MAPPED BY URS CORPORATION IN AUGUST 2006. THIS MAPPING USED THE SAME VERTICAL AND HORIZONTAL REFERENCE DATA AS THE PREVIOUS SURVEY. THE MAPPING WAS MERGED WITH THE 1998 DATA TO PRODUCE A COMPOSITE SITE BASE MAP. THE LIMITS OF THE COMPOSITE SURVEY MAP ARE SHOWN ON THE DRAWING. SEE MAP REFERENCE 3.

2. VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (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.

3. AREAS OUTSIDE OF CLOUD LINE: PROPERTY LINES AND MAPPING ADJACENT TO BIGELOW AVENUE, NORTH & SOUTH OF HOPKINS AVENUE & EAST OF BIGELOW AVENUE, AND SOUTH OF BLACKSTONE AVENUE WERE TAKEN FROM A VARIETY OF SOURCES INCLUDING SEPIA MYLAR SITE MAP (SEE REFERENCE 1), USGS 7.5 MINUTE TOPOGRAPHIC MAP – JAMESTOWN, NY, CITY OF JAMESTOWN TAX MAP RECORDS, AND URS FIELD RECONAISSANCE. LOCATIONS AND DIMENSIONS IN THESE AREAS ARE APPROXIMATE.

URS

PITTSBURGH, PENNSYLVANIA

2011 ANNUAL PERFORMANCE MONITORING REPORT
DEEP GROUNDWATER POTENTIOMETRIC SURFACE – NOVEMBER 29, 2011

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41569181	
SCALE: AS SHOWN	FIGURE NUMBER 10		REV 0

00 37 02 12 11 21 KK GG

FILE: \ESSEXHOP\2006-MAP\PMP-2011\2011-A-JUL-2009-PMP-BASE-MAP

APPENDIX A

GROUNDWATER EXTRACTION MONITORING DATA

APPENDIX A-1

WATER LEVEL DATA

APPENDIX A-1

2011 Water Level Data
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	March 30, 2011			June 7, 2011		
							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	NA	NA	NA	NA	NA	NA
MW-2	9837.1531	9959.6857	1279.87		16.0	Shallow	8.52	NA	1271.35	8.76	NA	1271.11
MW-4	9792.3277	9900.7631	1281.02	13.0	18.0	Shallow	9.29	NA	1271.73	9.76	NA	1271.26
MW-5	9789.6222	9631.761	1280.82	9.5	20.0	Shallow	NA	NA	NA	NA	NA	NA
MW-6	9977.1197	10118.8762	1277.98			Shallow	8.54	NA	1269.44	8.39	NA	1269.59
MW-7	9976.6467	10175.6797	1277.73	10.0	20.0	Shallow	7.99	NA	1269.74	8.03	NA	1269.70
MW-7D	9973.2593	10174.8524	1277.8	35.0	45.0	Deep	12.86	NA	1264.94	13.18	NA	1264.62
MW-7DD	9970.8547	10176.2698	1277.74	90.0	100.0	Glacial Till	NA	NA	NA	NA	NA	NA
MW-8	9959.6089	10127.6898	1277.97	39.6	49.6	Deep	12.39	NA	1265.58	12.95	NA	1265.02
MW-10	9932.4702	10185.7078	1277.94	8.5	18.5	Shallow	NA	NA	NA	NA	NA	NA
MW-11	9937.9912	10101.7016	1277.75	5.0	15.0	Shallow	8.55	NA	1269.20	8.77	NA	1268.98
MW-11D	9942.3792	10101.1482	1277.85	35.0	45.0	Deep	11.65	NA	1266.20	12.21	NA	1265.64
MW-12	9883.0874	10104.9278	1278.18	4.0	14.0	Shallow	7.64	NA	1270.54	8.00	NA	1270.18
MW-13	9752.0619	10240.2934	1278.12	8.0	18.0	Shallow	NA	NA	NA	NA	NA	NA
MW-14S	10048.7753	10135.5198	1280.25	10.0	20.0	Shallow	11.82	NA	1268.43	12.03	NA	1268.22
MW-14D	10049.5051	10129.1897	1280.01	40.0	50.0	Deep	13.37	NA	1266.64	13.93	NA	1266.08
MW-15S	10051.8272	10254.4862	1279.55	10.0	20.0	Shallow	11.65	NA	1267.90	12.09	NA	1267.46
MW-15D	10045.5611	10255.205	1279.46	34.0	44.0	Deep	12.64	NA	1266.82	13.22	NA	1266.24
MW-16S	10146.7788	10236.8582	1279.32	7.0	17.0	Shallow	11.27	NA	1268.05	11.85	NA	1267.47
MW-16D	10143.9497	10236.6005	1279.05	36.0	46.0	Deep	11.89	NA	1267.16	12.42	NA	1266.63
MW-17	9987.6315	9995.5207	1278.7			Deep	NA	NA	NA	NA	NA	NA
MW-18	9994.6655	10459.2207	1275.49		20.0	Shallow	8.39	NA	1267.10	9.06	NA	1266.43
MW-19S	9956.1454	10358.207	1276.82	9.0	19.0	Shallow	9.03	NA	1267.79	9.59	NA	1267.23
MW-19D	9951.569	10355.9748	1276.21	34.0	44.0	Deep	9.20	NA	1267.01	9.81	NA	1266.40
MW-20	9894.7336	10224.5128	1278.56	6.5	11.5	Shallow	6.78	NA	1271.78	7.42	NA	1271.14
MW-21D	9995.0094	10314.801	1276.12	31.5	41.0	Deep	9.04	NA	1267.08	9.65	NA	1266.47
MW-22D	10048.1687	10391.3548	1276.04	32.5	42.0	Deep	8.91	NA	1267.13	9.44	NA	1266.60
MW-23S	9824.696	10265.6365	1277.85	5.0	14.5	Shallow	5.41	NA	1272.44	5.81	NA	1272.04
MW-23D	9818.3152	10265.6675	1277.89	28.0	37.5	Deep	9.72	NA	1268.17	10.63	NA	1267.26

APPENDIX A-1

2011 Water Level Data
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	March 30, 2011			June 7, 2011		
							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-24S	9817.1277	10186.2119	1278.77	5.0	14.5	Shallow	NA	NA	NA	7.37	NA	1271.40
MW-25S	9995.6	10572.35	1272.76			Shallow	8.76	NA	1264.00	9.22	NA	1263.54
MW-25D	9995.46	10565.28	1273.41			Deep	8.83	NA	1264.58	9.33	NA	1264.08
MW-26S						Shallow						
MW-27S						Shallow						
MW-28S						Shallow						
MW-29S						Shallow						
HW-8	9834.664	10312.0885	1277.81	6.0	16.0	Shallow	NA	NA	NA	4.86	NA	1272.95
HW-9	9810.5264	10313.3873	1280.78	6.0	16.0	Shallow	8.88	NA	1271.90	9.27	NA	1271.51
HW-10	9837.2976	9966.7406	1279.55	7.0	17.0	Shallow	NA	NA	NA	NA	NA	NA
RW-1S	9932.3606	10136.0515	1275.81	10.5	16.0	Shallow	11.00	11.50	1264.81	10.98	11.50	1264.83
RW-1D	9925.9898	10121.7689	1276.34	32.0	57.0	Deep	10.77	NA	1265.57	11.33	NA	1265.01
RW-2S	9982.9501	10151.7112	1276.33	10.0	15.5	Shallow	10.59	12.70	1265.74	6.86	12.70	1269.47
RW-2D	9982.6088	10169.3122	1276.35	27.0	42.0	Deep	24.20	36.90	1252.15	24.18	36.90	1252.17
RW-3S	9837.0894	9990.9663	1278.14	9.0	13.5	Shallow	7.60	8.80	1270.54	8.29	8.80	1269.85
RW-5S	9863.4298	10330.7462	1277.29	7.0	10.0	Shallow	NA	NA	NA	NA	NA	NA
RW-6D	9994.04	10367.91	1265.91			Deep	10.59	NA	1255.32	13.04	NA	1252.87
GP-1S	9942.4384	10203.1085	1278.83	8.0	12.8	Shallow	NA	NA	NA	NA	NA	NA
GP-2S	9899.8775	10204.1632	1278.46	2.6	12.6	Shallow	NA	NA	NA	NA	NA	NA
GP-2D	9899.7358	10207.9807	1278.56	30.0	34.8	Deep	NA	NA	NA	NA	NA	NA
GP-3S	9941.2543	10263.8898	1278.59	4.0	14.0	Shallow	NA	NA	NA	NA	NA	NA
GP-3D	9936.9027	10264.588	1278.62	34.0	38.8	Deep	NA	NA	NA	NA	NA	NA
GP-4S	9940.86*	10154.97*	1278.06	10.8	15.8	Shallow	8.39	NA	1269.67	8.35	NA	1269.71
GP-4D	9942.1743	10152.2232	1277.95	39.0	43.8	Deep	12.30	NA	1265.65	12.57	NA	1265.38
GP-5S	9994.7299	10200.2055	1277.44	7.0	11.8	Shallow	NA	NA	NA	NA	NA	NA
GP-5D	9994.8642	10202.9906	1276.81	36.0	40.8	Deep	NA	NA	NA	NA	NA	NA
PZ-1S	9981.8469	10169.3122	1277.77			Shallow	NA	NA	NA	NA	NA	NA
PZ-1D	9980.4294	10171.2636	1277.64			Deep	NA	NA	NA	NA	NA	NA
PZ-2D	9979.5627	10172.4761	1277.55			Deep	NA	NA	NA	NA	NA	NA

APPENDIX A-1

2011 Water Level Data
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	March 30, 2011			June 7, 2011		
							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-3D	9942.0414	10199.2937	1278.8	20.0	40.0	Deep	NA	NA	NA	NA	NA	NA
PZ-4D	9946.2326	10195.679	1278.71			Deep	NA	NA	NA	NA	NA	NA
PZ-5S	9897.7381	10330.7876	1276.42	5.5	12.0	Shallow	5.67	NA	1270.75	6.78	NA	1269.64
PZ-5D	9894.5731	10329.7148	1276.4	21.0	42.0	Deep	8.33	NA	1268.07	9.36	NA	1267.04
PZ-6S	9932.2079	10344.4895	1276.61	8.5	13.5	Shallow	8.10	NA	1268.51	9.04	NA	1267.57
PZ-6D	9929.8004	10343.4742	1276.62	25.5	45.5	Deep	9.32	NA	1267.30	9.54	NA	1267.08
PZ-7D	9994.5452	10463.2465	1275.68	22.0	42.0	Deep	9.18	NA	1266.50	9.65	NA	1266.03
PZ-8D	9856.4908	10237.8118	1278.12	21.0	41.0	Deep	NA	NA	NA	NA	NA	NA
PZ-9D	9856.2398	10291.1658	1277.3	19.0	39.0	Deep	NA	NA	NA	NA	NA	NA
PZ-10D	9858.9821	10366.4236	1277.52	26.5	46.5	Deep	NA	NA	NA	NA	NA	NA
PZ-11D	9863.0677	10452.8989	1276.63	21.3	41.3	Deep	NA	NA	NA	NA	NA	NA
VP-5D	9925.1052	10103.0141	1277.88	12.5	34.3	Deep	10.24	NA	1267.64	10.69	NA	1267.19
VP-6S	9928.8123	10423.4628	1276.48	18.3	24.0	Deep upper gravel	9.26	NA	1267.22	9.67	NA	1266.81
VP-6D	9932.5744	10424.1378	1276.6	29.5	39.5	Deep	9.44	NA	1267.16	9.08	NA	1267.52
VP-7D	9758.4881	10337.7133	1278.64	20.4	39.3	Deep	10.85	NA	1267.79	11.80	NA	1266.84
VP-8D	9994.6178	10197.8133	1277.15	20.0	39.0	Deep	9.59	NA	1267.56	10.16	NA	1266.99

Notes:

NM = Not Measure
NA = Not Applicable

RW-4S, RW-5S taken offline in October 2002 for UST Removal.
Wells RW-4S, TW-01, and HW-7 destroyed during UST removal operations.

APPENDIX A-1

2011 Water Level Data
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	September 19, 2011			November 29, 2011		
							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	NA	NA	NA	NA	NA	NA
MW-2	9837.1531	9959.6857	1279.87		16.0	Shallow	8.97	NA	1270.90	8.26	NA	1271.61
MW-4	9792.3277	9900.7631	1281.02	13.0	18.0	Shallow	9.74	NA	1271.28	9.33	NA	1271.69
MW-5	9789.6222	9631.761	1280.82	9.5	20.0	Shallow	NA	NA	NA	NA	NA	NA
MW-6	9977.1197	10118.8762	1277.98			Shallow	9.02	NA	1268.96	8.69	NA	1269.29
MW-7	9976.6467	10175.6797	1277.73	10.0	20.0	Shallow	8.64	NA	1269.09	8.24	NA	1269.49
MW-7D	9973.2593	10174.8524	1277.8	35.0	45.0	Deep	14.06	NA	1263.74	14.83	NA	1262.97
MW-7DD	9970.8547	10176.2698	1277.74	90.0	100.0	Glacial Till	NA	NA	NA	NA	NA	NA
MW-8	9959.6089	10127.6898	1277.97	39.6	49.6	Deep	13.51	NA	1264.46	14.12	NA	1263.85
MW-10	9932.4702	10185.7078	1277.94	8.5	18.5	Shallow	NA	NA	NA	NA	NA	NA
MW-11	9937.9912	10101.7016	1277.75	5.0	15.0	Shallow	9.11	NA	1268.64	9.36	NA	1268.39
MW-11D	9942.3792	10101.1482	1277.85	35.0	45.0	Deep	12.54	NA	1265.31	13.29	NA	1264.56
MW-12	9883.0874	10104.9278	1278.18	4.0	14.0	Shallow	8.28	NA	1269.90	7.60	NA	1270.58
MW-13	9752.0619	10240.2934	1278.12	8.0	18.0	Shallow	9.80	NA	1268.32	10.62	NA	1267.50
MW-14S	10048.7753	10135.5198	1280.25	10.0	20.0	Shallow	12.65	NA	1267.60	12.32	NA	1267.93
MW-14D	10049.5051	10129.1897	1280.01	40.0	50.0	Deep	13.55	NA	1266.46	14.93	NA	1265.08
MW-15S	10051.8272	10254.4862	1279.55	10.0	20.0	Shallow	12.98	NA	1266.57	12.07	NA	1267.48
MW-15D	10045.5611	10255.205	1279.46	34.0	44.0	Deep	13.23	NA	1266.23	13.86	NA	1265.60
MW-16S	10146.7788	10236.8582	1279.32	7.0	17.0	Shallow	12.66	NA	1266.66	11.70	NA	1267.62
MW-16D	10143.9497	10236.6005	1279.05	36.0	46.0	Deep	12.92	NA	1266.13	13.13	NA	1265.92
MW-17	9987.6315	9995.5207	1278.7			Deep	NA	NA	NA	NA	NA	NA
MW-18	9994.6655	10459.2207	1275.49		20.0	Shallow	9.99	NA	1265.50	9.10	NA	1266.39
MW-19S	9956.1454	10358.207	1276.82	9.0	19.0	Shallow	10.10	NA	1266.72	9.03	NA	1267.79
MW-19D	9951.569	10355.9748	1276.21	34.0	44.0	Deep	10.24	NA	1265.97	11.15	NA	1265.06
MW-20	9894.7336	10224.5128	1278.56	6.5	11.5	Shallow	6.99	NA	1271.57	6.03	NA	1272.53
MW-21D	9995.0094	10314.801	1276.12	31.5	41.0	Deep	9.95	NA	1266.17	10.10	NA	1266.02
MW-22D	10048.1687	10391.3548	1276.04	32.5	42.0	Deep	10.30	NA	1265.74	9.55	NA	1266.49
MW-23S	9824.696	10265.6365	1277.85	5.0	14.5	Shallow	6.26	NA	1271.59	4.73	NA	1273.12
MW-23D	9818.3152	10265.6675	1277.89	28.0	37.5	Deep	10.74	NA	1267.15	10.43	NA	1267.46

APPENDIX A-1

2011 Water Level Data
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	September 19, 2011			November 29, 2011		
							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-24S	9817.1277	10186.2119	1278.77	5.0	14.5	Shallow	7.79	NA	1270.98	6.25	NA	1272.52
MW-25S	9995.6	10572.35	1272.76			Shallow	10.96	NA	1261.80	9.36	NA	1263.40
MW-25D	9995.46	10565.28	1273.41			Deep	10.88	NA	1262.53	9.69	NA	1263.72
MW-26S						Shallow				6.30	NA	
MW-27S						Shallow				8.49	NA	
MW-28S						Shallow				8.70	NA	
MW-29S						Shallow				6.90	NA	
HW-8	9834.664	10312.0885	1277.81	6.0	16.0	Shallow	6.44	NA	1271.37	4.45	NA	1273.36
HW-9	9810.5264	10313.3873	1280.78	6.0	16.0	Shallow	9.96	NA	1270.82	8.07	NA	1272.71
HW-10	9837.2976	9966.7406	1279.55	7.0	17.0	Shallow	NA	NA	NA	NA	NA	NA
RW-1S	9932.3606	10136.0515	1275.81	10.5	16.0	Shallow	9.16	11.50	1266.65	9.53	11.50	1266.28
RW-1D	9925.9898	10121.7689	1276.34	32.0	57.0	Deep	11.79	NA	1264.55	NA	NA	NA
RW-2S	9982.9501	10151.7112	1276.33	10.0	15.5	Shallow	9.28	12.70	1267.05	9.10	12.70	1267.23
RW-2D	9982.6088	10169.3122	1276.35	27.0	42.0	Deep	29.89	36.90	1246.46	29.80	36.90	1246.55
RW-3S	9837.0894	9990.9663	1278.14	9.0	13.5	Shallow	7.81	8.80	1270.33	9.15	8.80	1268.99
RW-5S	9863.4298	10330.7462	1277.29	7.0	10.0	Shallow	NA	NA	NA	NA	NA	NA
RW-6D	9994.04	10367.91	1265.91			Deep	9.69	NA	1256.22	9.06	NA	1256.85
GP-1S	9942.4384	10203.1085	1278.83	8.0	12.8	Shallow	NA	NA	NA	NA	NA	NA
GP-2S	9899.8775	10204.1632	1278.46	2.6	12.6	Shallow	NA	NA	NA	NA	NA	NA
GP-2D	9899.7358	10207.9807	1278.56	30.0	34.8	Deep	NA	NA	NA	NA	NA	NA
GP-3S	9941.2543	10263.8898	1278.59	4.0	14.0	Shallow	NA	NA	NA	NA	NA	NA
GP-3D	9936.9027	10264.588	1278.62	34.0	38.8	Deep	12.02	NA	1266.60	12.02	NA	1266.60
GP-4S	9940.86*	10154.97*	1278.06	10.8	15.8	Shallow	8.91	NA	1269.15	8.45	NA	1269.61
GP-4D	9942.1743	10152.2232	1277.95	39.0	43.8	Deep	12.29	NA	1265.66	14.17	NA	1263.78
GP-5S	9994.7299	10200.2055	1277.44	7.0	11.8	Shallow	NA	NA	NA	NA	NA	NA
GP-5D	9994.8642	10202.9906	1276.81	36.0	40.8	Deep	NA	NA	NA	NA	NA	NA
PZ-1S	9981.8469	10169.3122	1277.77			Shallow	NA	NA	NA	NA	NA	NA
PZ-1D	9980.4294	10171.2636	1277.64			Deep	NA	NA	NA	NA	NA	NA
PZ-2D	9979.5627	10172.4761	1277.55			Deep	NA	NA	NA	NA	NA	NA

APPENDIX A-1

2011 Water Level Data
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	September 19, 2011			November 29, 2011		
							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-3D	9942.0414	10199.2937	1278.8	20.0	40.0	Deep	NA	NA	NA	NA	NA	NA
PZ-4D	9946.2326	10195.679	1278.71			Deep	NA	NA	NA	NA	NA	NA
PZ-5S	9897.7381	10330.7876	1276.42	5.5	12.0	Shallow	5.97	NA	1270.45	5.17	NA	1271.25
PZ-5D	9894.5731	10329.7148	1276.4	21.0	42.0	Deep	9.96	NA	1266.44	9.39	NA	1267.01
PZ-6S	9932.2079	10344.4895	1276.61	8.5	13.5	Shallow	8.53	NA	1268.08	8.25	NA	1268.36
PZ-6D	9929.8004	10343.4742	1276.62	25.5	45.5	Deep	10.87	NA	1265.75	10.13	NA	1266.49
PZ-7D	9994.5452	10463.2465	1275.68	22.0	42.0	Deep	10.82	NA	1264.86	9.66	NA	1266.02
PZ-8D	9856.4908	10237.8118	1278.12	21.0	41.0	Deep	NA	NA	NA	NA	NA	NA
PZ-9D	9856.2398	10291.1658	1277.3	19.0	39.0	Deep	NA	NA	NA	NA	NA	NA
PZ-10D	9858.9821	10366.4236	1277.52	26.5	46.5	Deep	2.91	NA	1274.61	10.16	NA	1267.36
PZ-11D	9863.0677	10452.8989	1276.63	21.3	41.3	Deep	NA	NA	NA	NA	NA	NA
VP-5D	9925.1052	10103.0141	1277.88	12.5	34.3	Deep	10.54	NA	1267.34	11.45	NA	1266.43
VP-6S	9928.8123	10423.4628	1276.48	18.3	24.0	Deep upper gravel	10.52	NA	1265.96	9.28	NA	1267.20
VP-6D	9932.5744	10424.1378	1276.6	29.5	39.5	Deep	10.66	NA	1265.94	6.10	NA	1270.50
VP-7D	9758.4881	10337.7133	1278.64	20.4	39.3	Deep	12.30	NA	1266.34	11.65	NA	1266.99
VP-8D	9994.6178	10197.8133	1277.15	20.0	39.0	Deep	10.45	NA	1266.70	10.45	NA	1266.70

Notes:

NM = Not Measure
NA = Not Applicable

RW-4S, RW-5S taken offline in October 2002 for UST Removal.
Wells RW-4S, TW-01, and HW-7 destroyed during UST removal operations.

APPENDIX A-2

Groundwater Extraction System Monitoring Data

APPENDIX A-2

2011 Groundwater Extraction System Monitoring Data
Essex/Hope Site
Jamestown, NY

Date	NPL Area - Shallow WBZ			L.F. Sand WBZ			AST/UST Area - Shallow	Comments
	RW-1S	RW-2S	Total	RW-2D	RW-6D	Total	RW-3S	
	Avg. GPM	Avg. GPM	GPM	Avg. GPM	Avg. GPM	GPM	Avg. GPM	
01/06/11	0.197	1.62	1.817	2.12	0.232	2.352	0.00009	
01/19/11	0.070	0.851	0.921	1.72	0.173	1.893	0.0002	RWs down on arrival due to potential power outage. Reset at 0810 hrs.
01/27/11	0.074	0.725	0.799	1.99	0.133	2.123	0.00003	
02/03/11	0.048	0.280	0.328	1.99	0.123	2.113	0.00007	
02/17/11	0.054	0.436	0.490	1.98	0.097	2.077	0.00007	
02/28/11	0.211	1.86	2.071	2.04	0.107	2.147	0	
03/17/11	0.328	1.30	1.628	2.07	0.102	2.172	0	RWs offline at 1116 for subsequent pipe repair; leak in post-carb pipe.
03/31/11	0.432	1.73	2.162	0.572	0.085	0.657	0	RWs online on 3/22/11 at 1455 hrs following pipe repair. RW-2D local on 3/29/11.
04/14/11	0.116	0.691	0.807	1.92	0.00006	1.92006	0	RW-6D frequency set at 48 Hz at 1155 hrs.
04/29/11	0.391	1.74	2.131	0.384	0.143	0.527	0	RW-2D VFD reset. RW-6D VFD reset at 1113 hrs (1-min overload).
05/11/11	0.316	1.66	1.976	1.88	0.063	1.943	0	
05/18/11	0.213	1.49	1.703	1.82	0.844	2.664	0	RW-6D down on arrival (VFD under voltage). Reset at 40 Hz.
06/03/11	0.349	1.47	1.819	0.319	0.025	0.344	0	RW-2D VFD reset at 1010 hrs.
06/07/11	0.263	0.001	0.264	1.86	0.006	1.866	0	RW-6D offline from 1155 hrs to 1233 hrs for meter cleaning. RWs offline at 1500 hrs for carbon changeout activities. RWs online 6/8/11 at 0845.
06/17/11	0.120	0.712	0.832	1.80	0.036	1.836	0.0006	RW-6D down on arrival; remain offline for VFD readjustments.
06/22/11	0.098	0	0.098	1.75	offline	1.75	0.0004	RW-2S reset at 1320 hrs.
06/27/11	0.161	0.589	0.750	1.74	offline	1.74	0.00006	RWs offline at 1345 hrs for RW-2D acid treatment activities; online on 6/30/11 at 0955 hrs. Approx. 2,752 gallons removed by RW-2D during acid treatment activities.

APPENDIX A-2

2011 Groundwater Extraction System Monitoring Data
Essex/Hope Site
Jamestown, NY

Date	NPL Area - Shallow WBZ			L.F. Sand WBZ			AST/UST Area - Shallow	Comments
	RW-1S Avg. GPM	RW-2S Avg. GPM	Total GPM	RW-2D Avg. GPM	RW-6D Avg. GPM	Total GPM	RW-3S Avg. GPM	
07/05/11	0.090	0.824	0.914	2.67	offline	2.67	0.00005	RWs offline at 1150 hrs for RW-6D acid treatment activities and motor replacement; online on 7/7/11 at 1345 hrs. Approx. 2,160 gallons removed by RW-6D during acid treatment activities. RW-2D local at 45 Hz.
07/08/11	0.063	0.430	0.493	2.50	1.55	4.05	0	
07/22/11	0.028	0.060	0.088	2.42	1.44	3.86	0	
07/27/11	0.015	0.011	0.026	2.31	1.29	3.60	0	RWs offline at 1345 hrs for carbon changeout activities; online on 7/29/11 at 0910 hrs.
08/08/11	0.019	0.015	0.034	1.97	0.737	2.71	0.00003	RW-2D reset at 1135 hrs (VFD down on arrival, undervoltage). BPU meter malfunction, temporarily replace with URS meter. RW-3S offline from 1230 hrs to 1450 hrs for devlopment activities.
08/09/11	0.020	0.038	0.058	2.45	0.726	3.18	0.0008	RWs offline from 0902 hrs to 0940 hrs for check/clearing of blockage in RW-3S piperack line. RW-2D offline from 0950 hrs to 1230 hrs for development activities. RW-2S offline from 1230 hrs to 1425 hrs for development activites.
08/10/11	0.040	0.283	0.323	2.60	0.760	3.36	0.007	RWs offline from 0825 hrs to 1137 hrs for RW-1S development activities and BPU meter replacement. RWs offline at 1420 hrs due to acetone breakthrough in carbon vessels. On 8/11/11, attempt to place spare carbon online and experience underdrain failure, carbon in line. System and RWs remain offline to assess acetone issues.
08/31/11	0.089	1.17	1.259	2.49	offline	2.49	0.022	RWs online on 8/18/11 at 1420 hrs, RW-2D at 1433 hrs. RW-6D remain offline due to elevated levels of acetone. Treatment options to be determined.
09/16/11	0.001	0.013	0.014	2.44	offline	2.44	0.0001	Shutdown RW-2D at 0800 hrs; other RWs down on arrival due HHH tank level; system pump electrical switch malfunction. Switch repaired and RWs online at 1035 hrs.
09/19/11	0.213	2.43	2.643	0.687	offline	0.69	0.017	
09/22/11	0.120	1.57	1.690	2.59	offline	2.59	0.025	
10/03/11	0.094	1.14	1.234	2.53	offline	2.53	0.018	

APPENDIX A-2

2011 Groundwater Extraction System Monitoring Data
Essex/Hope Site
Jamestown, NY

Date	NPL Area - Shallow WBZ			L.F. Sand WBZ			AST/UST Area - Shallow	Comments
	RW-1S Avg. GPM	RW-2S Avg. GPM	Total GPM	RW-2D Avg. GPM	RW-6D Avg. GPM	Total GPM	RW-3S Avg. GPM	
10/17/11	0.127	1.11	1.237	2.49	offline	2.49	0.035	RWs offline at 1540 hrs for subsequent cleaning of EQ tank. RWs online on 10/18/11 at 1556 hrs.
10/21/11	0.239	2.53	2.769	2.51	offline	2.51	0.049	
11/03/11	0.105	1.99	2.095	2.46	offline	2.46	0.041	RW-6D online on 11/2/11 from 1715 hrs to 1800 hrs for purge/sample.
11/16/11	0.073	0.975	1.048	2.45	offline	2.45	0.015	
11/29/11	0.111	1.85	1.961	2.42	offline	2.42	0.046	
12/06/11	0.111	1.82	1.931	2.41	offline	2.41	0.046	RW-6D online on 12/1/11 from 1417 hrs to 1517 hrs for purge/sample (Post-ISCO sampling).
12/20/11	0.102	1.61	1.712	2.42	offline	2.42	0.036	

Notes:

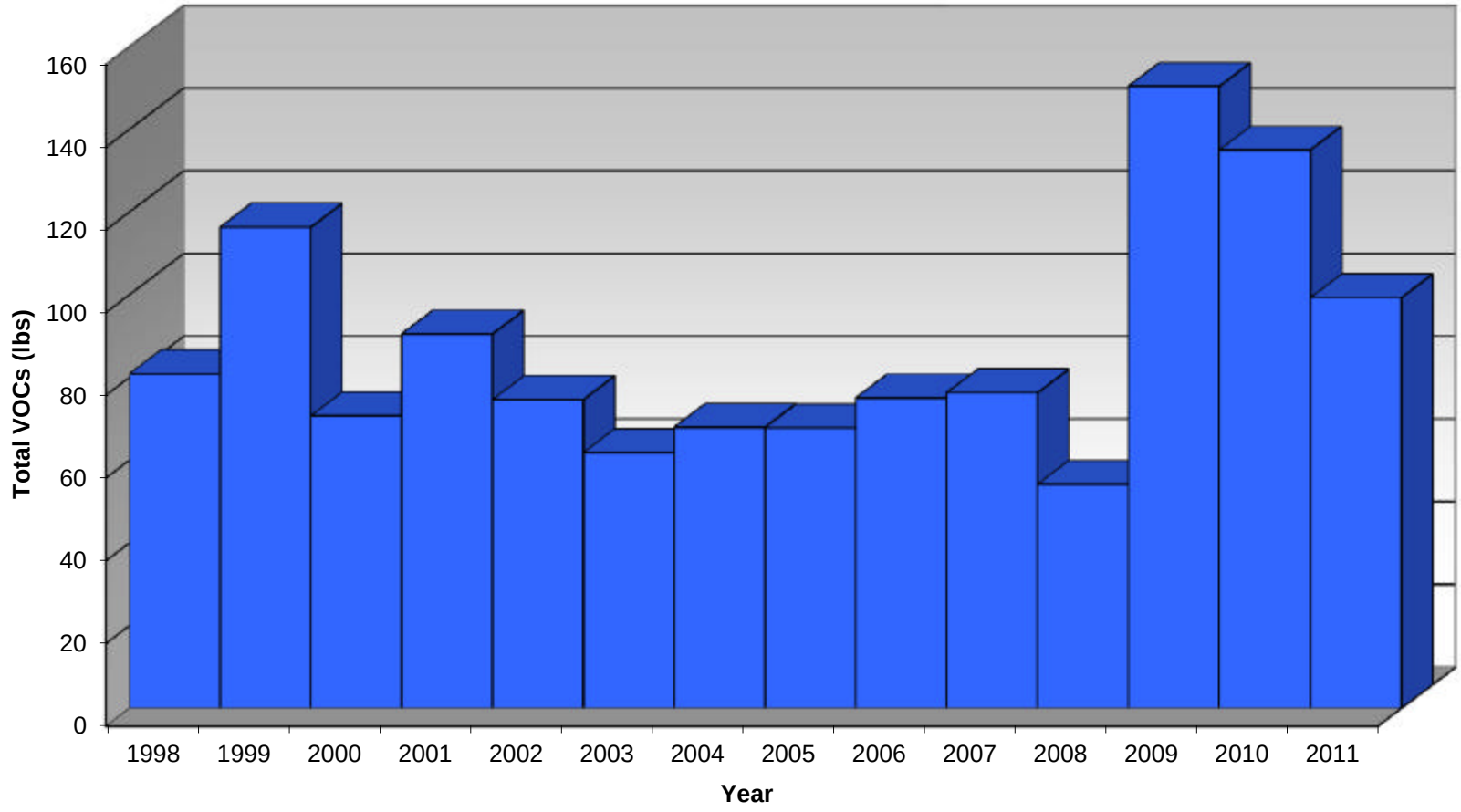
RW-3S low volume in first half due to a block/obstruction in piperack line; cleared during development activities.
RW-6D offline due to elevated acetone levels in plume. Area treated during November 2011 ISCO; RW-6D expected to return online during 2nd quarter 2012.

APPENDIX A-3

Recovery Well Performance Data

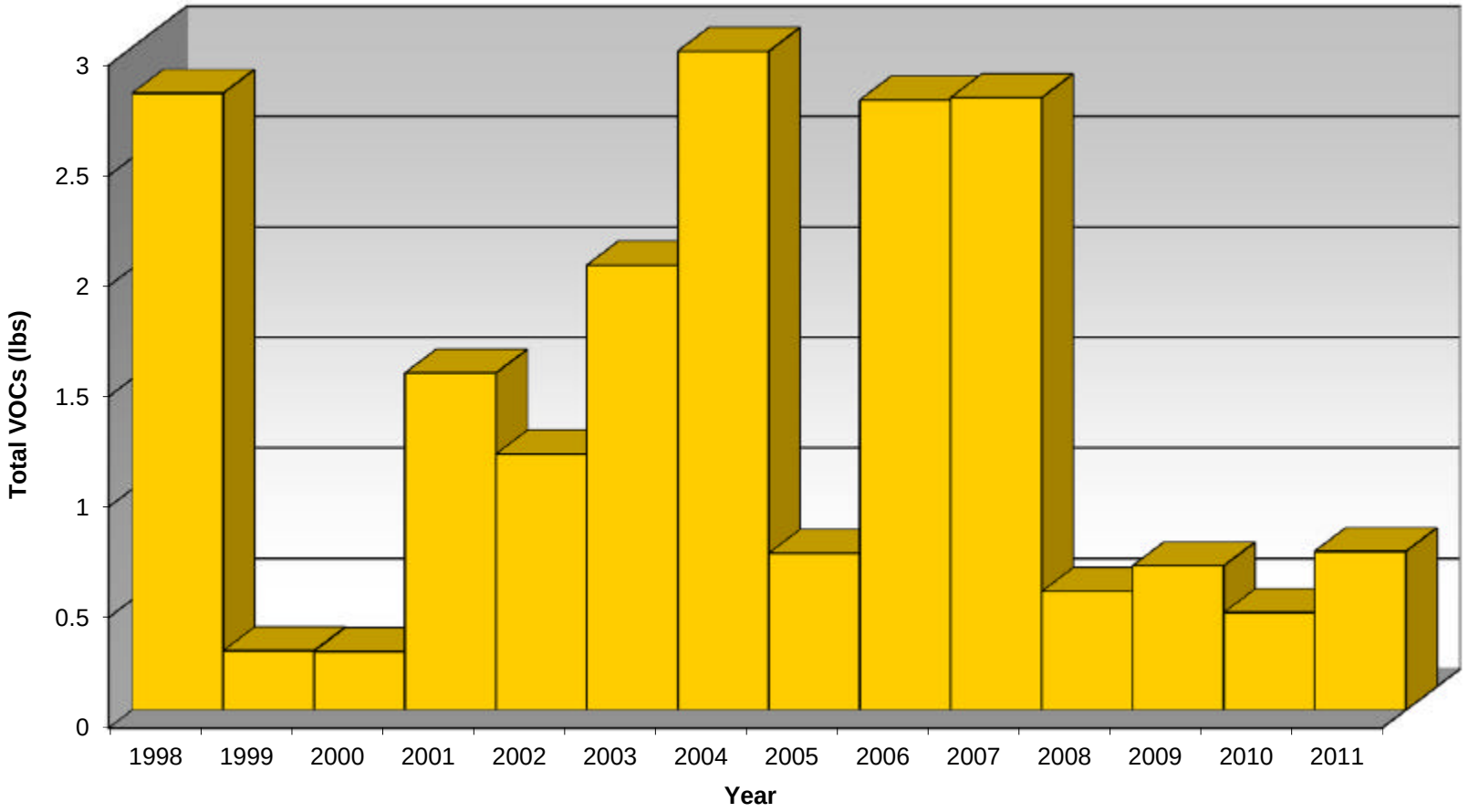
APPENDIX A-3 - Recovery Well Performance Data

TOTAL SITE VOCs MASS REMOVED
Essex/Hope Site
Jamestown, NY



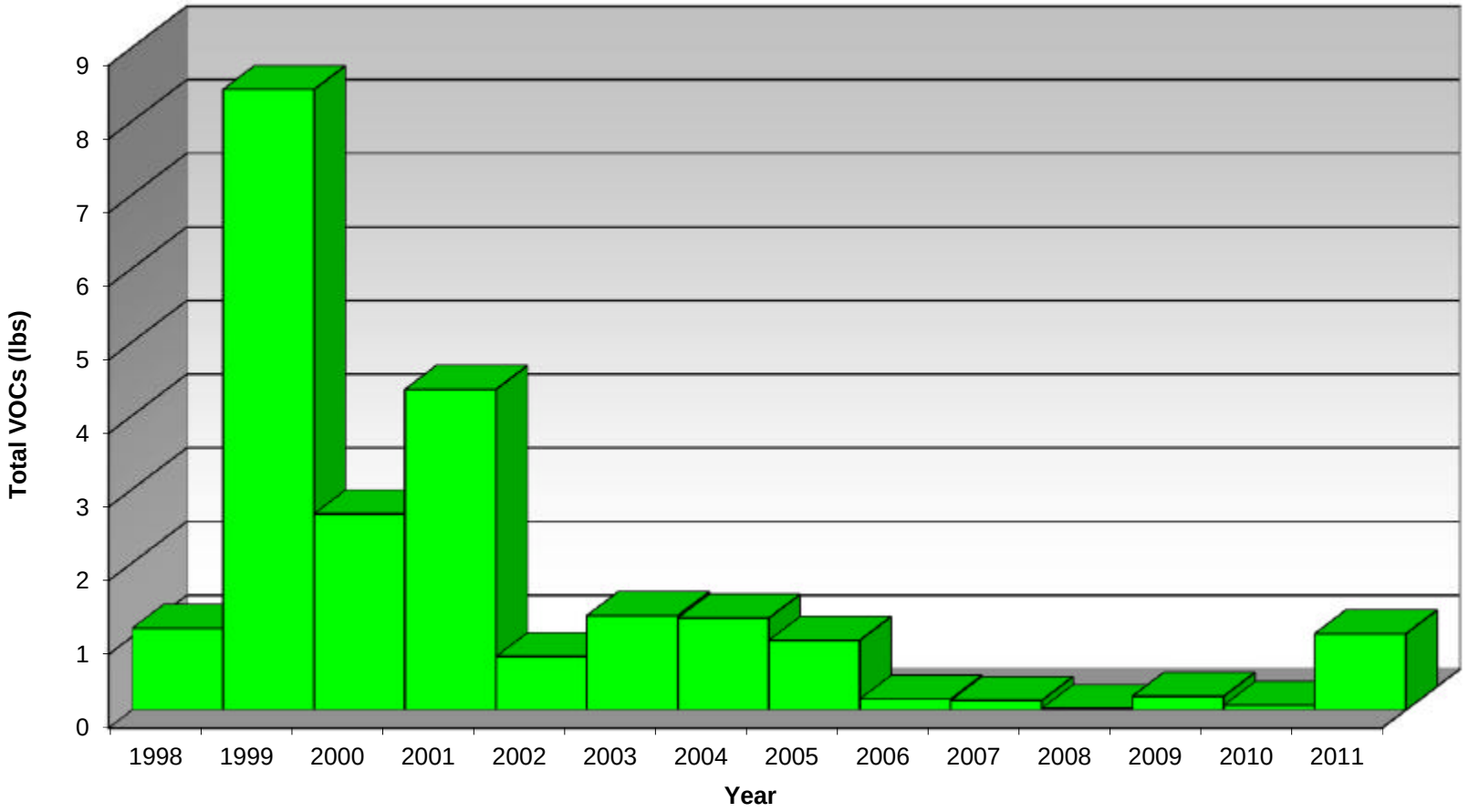
APPENDIX A-3 - Recovery Well Performance Data

RW-1S - Total VOCs Mass Removed
Essex/Hope Site
Jamestown, NY



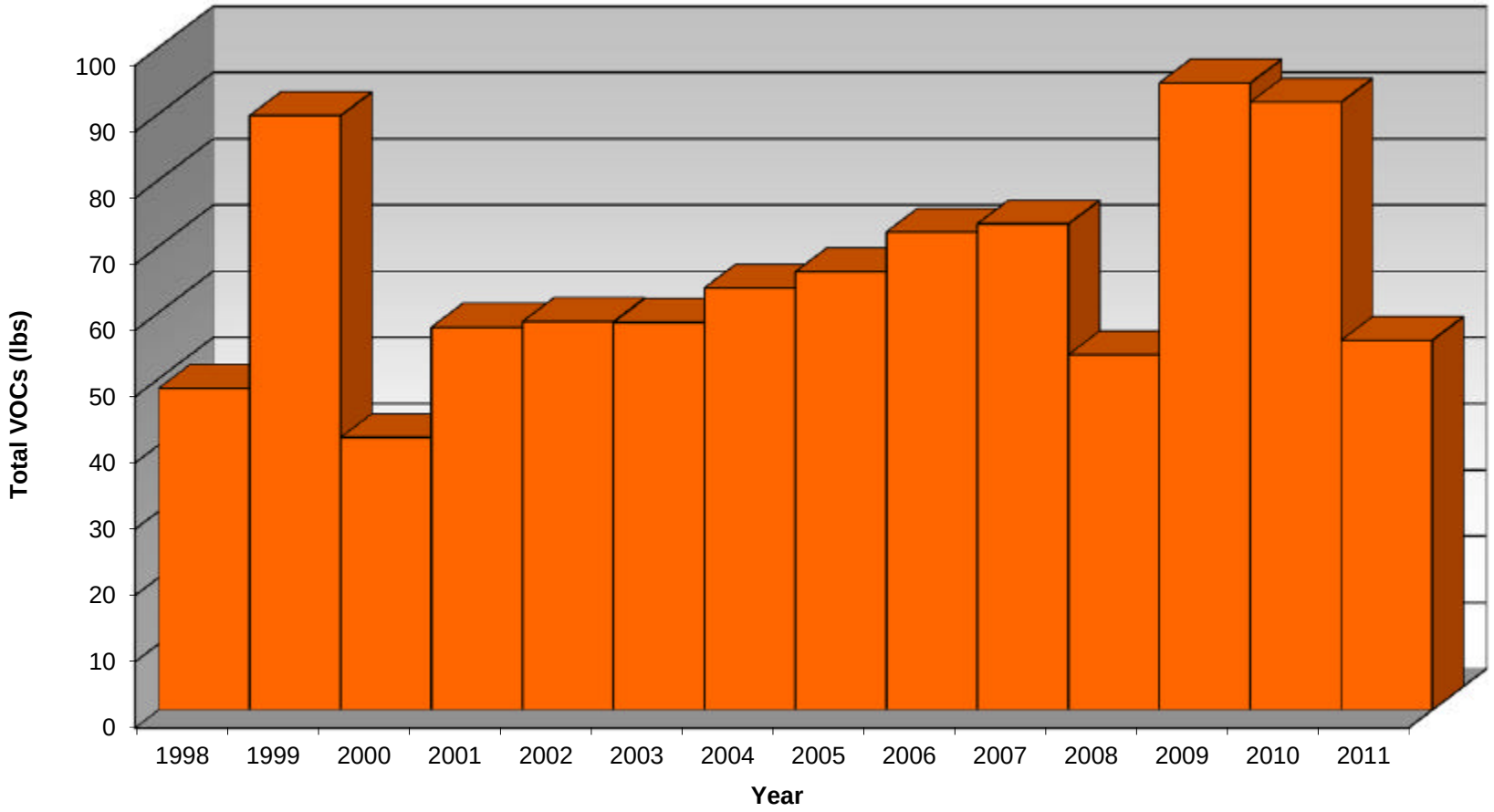
APPENDIX A-3 - Recovery Well Performance Data

RW-2S - Total VOCs Mass Removed
Essex/Hope Site
Jamestown, NY



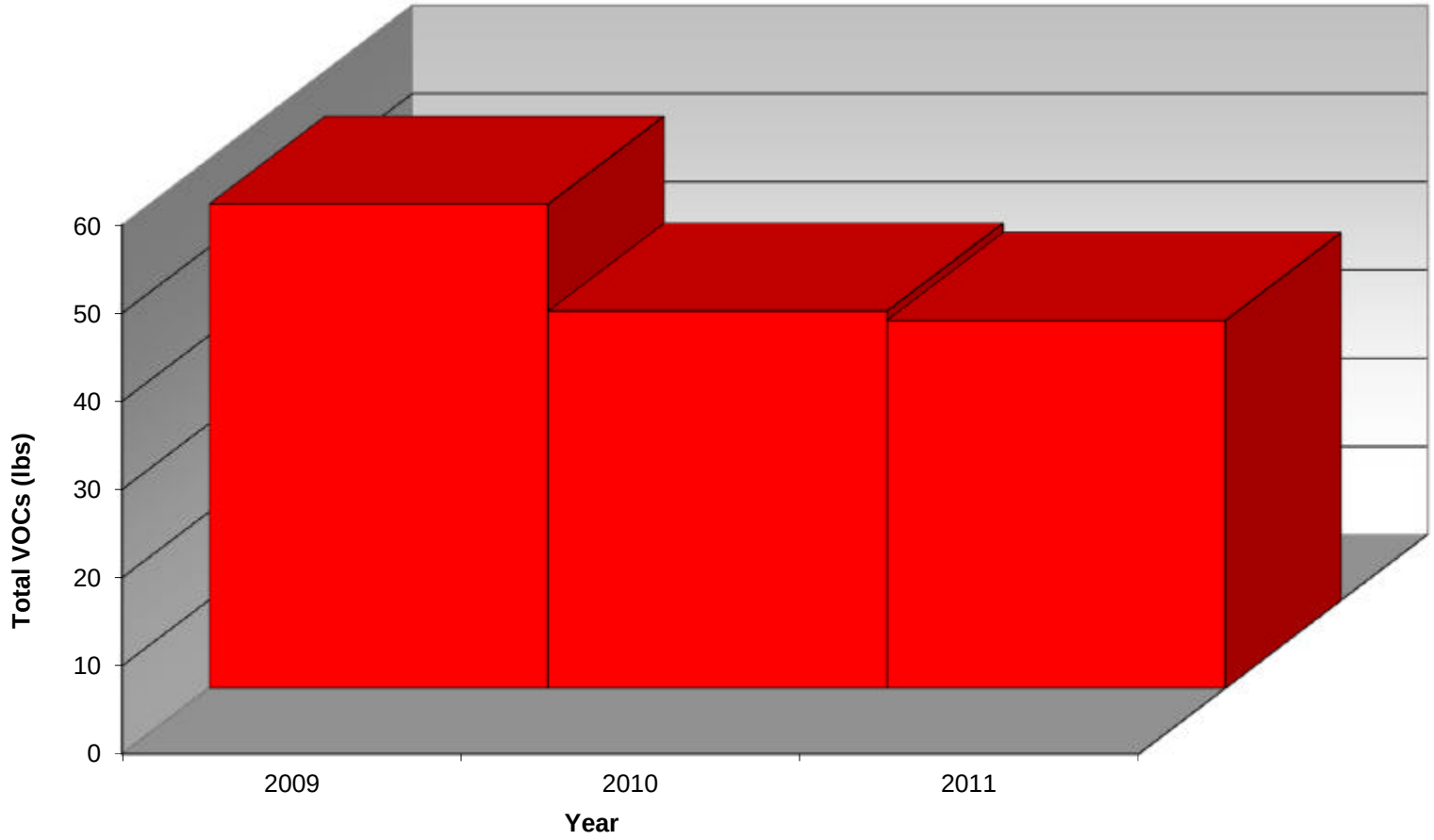
APPENDIX A-3 - Recovery Well Performance Data

RW-2D - Total VOCs Mass Removed
Essex/Hope Site
Jamestown, NY



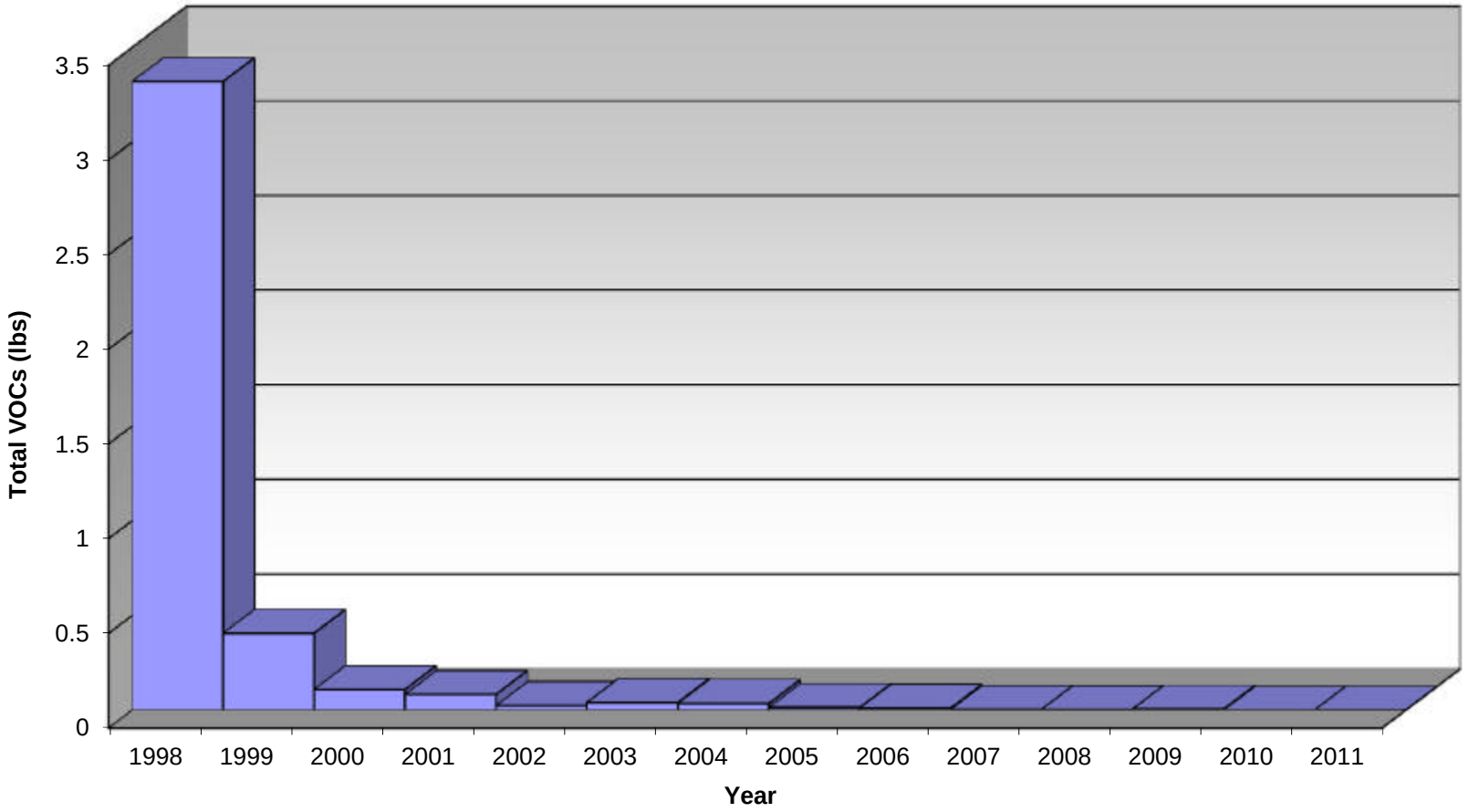
APPENDIX A-3 - Recovery Well Performance Data

RW-6D - Total VOCs Mass Removed
Essex/Hope Site
Jamestown, NY



APPENDIX A-3 - Recovery Well Performance Data

RW-3S - Total VOCs Mass Removed
Essex/Hope Site
Jamestown, NY



APPENDIX B

LABORATORY ANALYTICAL DATA

APPENDIX B-1

2011 SEMI-ANNUAL RECOVERY WELL DATA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 01, 2011

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

RE: Project: Essex-Hope
Pace Project No.: 3044043

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

This report was reissued on August 1, 2011 to include Cumene results.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope
Pace Project No.: 3044043

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Essex-Hope
Pace Project No.: 3044043

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3044043001	**RW-1S**	EPA 8260	JAS	43	PASI-PA
3044043002	**RW-2S**	EPA 8260	JAS	43	PASI-PA
3044043003	**RW-2D**	EPA 8260	JAS	43	PASI-PA
3044043004	**RW-3S**	EPA 8260	JAS	43	PASI-PA
3044043005	**RW-6D**	EPA 8260	JAS	43	PASI-PA
3044043006	**TB-01**	EPA 8260	JAS	43	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3044043

Sample: RW-1S **Lab ID: 3044043001** Collected: 03/29/11 13:50 Received: 03/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/08/11 13:29	67-64-1	
Benzene	ND	ug/L	1.0	1		04/08/11 13:29	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/11 13:29	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/11 13:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/11 13:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/08/11 13:29	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/11 13:29	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/11 13:29	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/11 13:29	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/11 13:29	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/11 13:29	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/11 13:29	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/11 13:29	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 13:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 13:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 13:29	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/11 13:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/11 13:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/08/11 13:29	75-35-4	
cis-1,2-Dichloroethene	**666**	ug/L	100	20		04/08/11 13:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/11 13:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/11 13:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 13:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 13:29	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/11 13:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/11 13:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/08/11 13:29	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/08/11 13:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/11 13:29	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/11 13:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/11 13:29	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/11 13:29	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/11 13:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/11 13:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/11 13:29	79-00-5	
Trichloroethene	**614**	ug/L	100	20		04/08/11 13:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/11 13:29	75-69-4	
Vinyl chloride	**35.8**	ug/L	1.0	1		04/08/11 13:29	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/11 13:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/08/11 13:29	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130	1		04/08/11 13:29	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		04/08/11 13:29	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		04/08/11 13:29	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3044043

Sample: RW-2S **Lab ID: 3044043002** Collected: 03/29/11 13:55 Received: 03/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/08/11 14:21	67-64-1	
Benzene	ND	ug/L	1.0	1		04/08/11 14:21	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/11 14:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/11 14:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/11 14:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/08/11 14:21	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/11 14:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/11 14:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/11 14:21	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/11 14:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/11 14:21	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/11 14:21	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/11 14:21	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 14:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 14:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 14:21	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/11 14:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/11 14:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/08/11 14:21	75-35-4	
cis-1,2-Dichloroethene	**64.4**	ug/L	5.0	1		04/08/11 14:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/11 14:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/11 14:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 14:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 14:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/11 14:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/11 14:21	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/08/11 14:21	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/08/11 14:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/11 14:21	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/11 14:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/11 14:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/11 14:21	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/11 14:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/11 14:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/11 14:21	79-00-5	
Trichloroethene	**17.2**	ug/L	5.0	1		04/08/11 14:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/11 14:21	75-69-4	
Vinyl chloride	**2.6**	ug/L	1.0	1		04/08/11 14:21	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/11 14:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/08/11 14:21	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		04/08/11 14:21	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		04/08/11 14:21	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		04/08/11 14:21	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3044043

Sample: RW-2D **Lab ID: 3044043003** Collected: 03/29/11 14:00 Received: 03/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/08/11 14:48	67-64-1	
Benzene	**7.3**	ug/L	1.0	1		04/08/11 14:48	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/11 14:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/11 14:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/11 14:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/08/11 14:48	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/11 14:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/11 14:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/11 14:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/11 14:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/11 14:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/11 14:48	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/11 14:48	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 14:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 14:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 14:48	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/11 14:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/11 14:48	107-06-2	
1,1-Dichloroethene	**18.7**	ug/L	5.0	1		04/08/11 14:48	75-35-4	
cis-1,2-Dichloroethene	**3770**	ug/L	250	50		04/08/11 15:14	156-59-2	
trans-1,2-Dichloroethene	**86.8**	ug/L	5.0	1		04/08/11 14:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/11 14:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 14:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 14:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/11 14:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/11 14:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/08/11 14:48	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/08/11 14:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/11 14:48	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/11 14:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/11 14:48	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/11 14:48	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/11 14:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/11 14:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/11 14:48	79-00-5	
Trichloroethene	**1770**	ug/L	250	50		04/08/11 15:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/11 14:48	75-69-4	
Vinyl chloride	**802**	ug/L	50.0	50		04/08/11 15:14	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/11 14:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/08/11 14:48	95-47-6	
4-Bromofluorobenzene (S)	92	%	70-130	1		04/08/11 14:48	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		04/08/11 14:48	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		04/08/11 14:48	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3044043

Sample: RW-3S **Lab ID: 3044043004** Collected: 03/29/11 14:10 Received: 03/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/08/11 15:40	67-64-1	
Benzene	**7.1**	ug/L	1.0	1		04/08/11 15:40	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/11 15:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/11 15:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/11 15:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/08/11 15:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/11 15:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/11 15:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/11 15:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/11 15:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/11 15:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/11 15:40	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/11 15:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 15:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 15:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 15:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/11 15:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/11 15:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/08/11 15:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/11 15:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/11 15:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/11 15:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 15:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 15:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/11 15:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/11 15:40	591-78-6	
Isopropylbenzene (Cumene)	**4.5**	ug/L	1.0	1		04/08/11 15:40	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/08/11 15:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/11 15:40	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/11 15:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/11 15:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/11 15:40	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/11 15:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/11 15:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/11 15:40	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/08/11 15:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/11 15:40	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		04/08/11 15:40	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/11 15:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/08/11 15:40	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130	1		04/08/11 15:40	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		04/08/11 15:40	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		04/08/11 15:40	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3044043

Sample: RW-6D **Lab ID: 3044043005** Collected: 03/29/11 14:15 Received: 03/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**31000**	ug/L	1000	100		04/08/11 16:33	67-64-1	
Benzene	**88.4**	ug/L	1.0	1		04/08/11 16:06	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/11 16:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/11 16:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/11 16:06	74-83-9	
2-Butanone (MEK)	**207**	ug/L	10.0	1		04/08/11 16:06	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/11 16:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/11 16:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/11 16:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/11 16:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/11 16:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/11 16:06	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/11 16:06	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 16:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 16:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 16:06	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/11 16:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/11 16:06	107-06-2	
1,1-Dichloroethene	**57.4**	ug/L	5.0	1		04/08/11 16:06	75-35-4	
cis-1,2-Dichloroethene	**24500**	ug/L	500	100		04/08/11 16:33	156-59-2	
trans-1,2-Dichloroethene	**308**	ug/L	5.0	1		04/08/11 16:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/11 16:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 16:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 16:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/11 16:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/11 16:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/08/11 16:06	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/08/11 16:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/11 16:06	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/11 16:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/11 16:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/11 16:06	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/11 16:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/11 16:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/11 16:06	79-00-5	
Trichloroethene	**127**	ug/L	5.0	1		04/08/11 16:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/11 16:06	75-69-4	
Vinyl chloride	**2070**	ug/L	100	100		04/08/11 16:33	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/11 16:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/08/11 16:06	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		04/08/11 16:06	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		04/08/11 16:06	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		04/08/11 16:06	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3044043

Sample: TB-01 **Lab ID: 3044043006** Collected: 03/29/11 00:01 Received: 03/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/08/11 16:59	67-64-1	
Benzene	ND	ug/L	1.0	1		04/08/11 16:59	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/11 16:59	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/11 16:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/11 16:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/08/11 16:59	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/11 16:59	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/11 16:59	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/11 16:59	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/11 16:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/11 16:59	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/11 16:59	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/11 16:59	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 16:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 16:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 16:59	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/11 16:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/11 16:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/08/11 16:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/11 16:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/11 16:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/11 16:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 16:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 16:59	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/11 16:59	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/11 16:59	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/08/11 16:59	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/08/11 16:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/11 16:59	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/11 16:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/11 16:59	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/11 16:59	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/11 16:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/11 16:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/11 16:59	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/08/11 16:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/11 16:59	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		04/08/11 16:59	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/11 16:59	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/08/11 16:59	95-47-6	
4-Bromofluorobenzene (S)	94	%	70-130	1		04/08/11 16:59	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		04/08/11 16:59	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		04/08/11 16:59	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3044043

QC Batch: MSV/8968 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3044043001, 3044043002, 3044043003, 3044043004, 3044043005, 3044043006

METHOD BLANK: 285805 Matrix: Water
Associated Lab Samples: 3044043001, 3044043002, 3044043003, 3044043004, 3044043005, 3044043006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/08/11 13:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/08/11 13:03	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/08/11 13:03	
1,1-Dichloroethane	ug/L	ND	5.0	04/08/11 13:03	
1,1-Dichloroethene	ug/L	ND	5.0	04/08/11 13:03	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/08/11 13:03	
1,2-Dichloroethane	ug/L	ND	5.0	04/08/11 13:03	
1,2-Dichloropropane	ug/L	ND	5.0	04/08/11 13:03	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/08/11 13:03	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/08/11 13:03	
2-Butanone (MEK)	ug/L	ND	10.0	04/08/11 13:03	
2-Hexanone	ug/L	ND	10.0	04/08/11 13:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/08/11 13:03	
Acetone	ug/L	ND	10.0	04/08/11 13:03	
Benzene	ug/L	ND	1.0	04/08/11 13:03	
Bromodichloromethane	ug/L	ND	5.0	04/08/11 13:03	
Bromoform	ug/L	ND	5.0	04/08/11 13:03	
Bromomethane	ug/L	ND	5.0	04/08/11 13:03	
Carbon disulfide	ug/L	ND	5.0	04/08/11 13:03	
Carbon tetrachloride	ug/L	ND	5.0	04/08/11 13:03	
Chlorobenzene	ug/L	ND	5.0	04/08/11 13:03	
Chloroethane	ug/L	ND	5.0	04/08/11 13:03	
Chloroform	ug/L	ND	5.0	04/08/11 13:03	
Chloromethane	ug/L	ND	5.0	04/08/11 13:03	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/08/11 13:03	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/08/11 13:03	
Dibromochloromethane	ug/L	ND	5.0	04/08/11 13:03	
Ethylbenzene	ug/L	ND	5.0	04/08/11 13:03	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	04/08/11 13:03	
m&p-Xylene	ug/L	ND	5.0	04/08/11 13:03	
Methylene Chloride	ug/L	ND	5.0	04/08/11 13:03	
o-Xylene	ug/L	ND	5.0	04/08/11 13:03	
Styrene	ug/L	ND	5.0	04/08/11 13:03	
Tetrachloroethene	ug/L	ND	5.0	04/08/11 13:03	
Toluene	ug/L	ND	5.0	04/08/11 13:03	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/08/11 13:03	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/08/11 13:03	
Trichloroethene	ug/L	ND	5.0	04/08/11 13:03	
Trichlorofluoromethane	ug/L	ND	5.0	04/08/11 13:03	
Vinyl chloride	ug/L	ND	1.0	04/08/11 13:03	
1,2-Dichloroethane-d4 (S)	%	105	70-130	04/08/11 13:03	
4-Bromofluorobenzene (S)	%	99	70-130	04/08/11 13:03	
Toluene-d8 (S)	%	95	70-130	04/08/11 13:03	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3044043

LABORATORY CONTROL SAMPLE: 285806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.8	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.4	97	70-130	
1,1,2-Trichloroethane	ug/L	20	21.3	107	70-130	
1,1-Dichloroethane	ug/L	20	19.6	98	70-130	
1,1-Dichloroethene	ug/L	20	18.6	93	70-130	
1,2-Dichlorobenzene	ug/L	20	20.3	101	70-130	
1,2-Dichloroethane	ug/L	20	21.8	109	70-130	
1,2-Dichloropropane	ug/L	20	20.1	101	70-130	
1,3-Dichlorobenzene	ug/L	20	20.6	103	70-130	
1,4-Dichlorobenzene	ug/L	20	20.5	103	70-130	
2-Butanone (MEK)	ug/L	20	21.5	107	70-130	
2-Hexanone	ug/L	20	21.3	106	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.4	97	70-130	
Acetone	ug/L	20	23.7	118	70-130	
Benzene	ug/L	20	20.3	102	70-130	
Bromodichloromethane	ug/L	20	18.6	93	70-130	
Bromoform	ug/L	20	17.9	90	70-130	
Bromomethane	ug/L	20	35.4	177	70-130	L3
Carbon disulfide	ug/L	20	21.3	107	70-130	
Carbon tetrachloride	ug/L	20	20.0	100	70-130	
Chlorobenzene	ug/L	20	20.8	104	70-130	
Chloroethane	ug/L	20	19.0	95	70-130	
Chloroform	ug/L	20	21.0	105	70-130	
Chloromethane	ug/L	20	17.5	88	70-130	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.5	98	70-130	
Dibromochloromethane	ug/L	20	19.7	98	70-130	
Ethylbenzene	ug/L	20	20.9	104	70-130	
Isopropylbenzene (Cumene)	ug/L	20	20.9	104	70-130	
m&p-Xylene	ug/L	40	43.8	110	70-130	
Methylene Chloride	ug/L	20	19.4	97	70-130	
o-Xylene	ug/L	20	21.0	105	70-130	
Styrene	ug/L	20	20.7	104	70-130	
Tetrachloroethene	ug/L	20	21.2	106	70-130	
Toluene	ug/L	20	20.7	103	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.5	97	70-130	
Trichloroethene	ug/L	20	19.9	99	70-130	
Trichlorofluoromethane	ug/L	20	23.4	117	70-130	
Vinyl chloride	ug/L	20	18.4	92	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			96	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3044043

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 285807 285808

Parameter	Units	3044057001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	18.5	15.5	92	78	70-130	17	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.5	16.7	92	83	70-130	10	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.5	16.7	93	83	70-130	10	
1,1-Dichloroethane	ug/L	ND	20	20	17.1	14.9	86	75	70-130	14	
1,1-Dichloroethene	ug/L	ND	20	20	15.5	13.2	78	66	70-130	16	M0
1,2-Dichlorobenzene	ug/L	ND	20	20	17.6	15.2	88	76	70-130	14	
1,2-Dichloroethane	ug/L	ND	20	20	18.1	16.2	91	81	70-130	12	
1,2-Dichloropropane	ug/L	ND	20	20	16.4	14.5	82	73	70-130	12	
1,3-Dichlorobenzene	ug/L	ND	20	20	16.9	14.5	84	73	70-130	15	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.6	15.1	88	75	70-130	15	
2-Butanone (MEK)	ug/L	ND	20	20	18.2	17.5	91	88	70-130	4	
2-Hexanone	ug/L	ND	20	20	16.1	16.6	80	83	70-130	3	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	15.2	14.6	76	73	70-130	4	
Acetone	ug/L	ND	20	20	17.9	20.7	89	103	70-130	15	
Benzene	ug/L	ND	20	20	16.7	14.3	83	72	70-130	15	
Bromodichloromethane	ug/L	ND	20	20	14.2	12.9	71	65	70-130	10	M0
Bromoform	ug/L	ND	20	20	13.7	12.9	69	65	70-130	6	M0
Bromomethane	ug/L	ND	20	20	21.0	25.3	105	127	70-130	19	
Carbon disulfide	ug/L	ND	20	20	18.4	15.9	92	80	70-130	15	
Carbon tetrachloride	ug/L	ND	20	20	15.0	13.0	75	65	70-130	14	M0
Chlorobenzene	ug/L	ND	20	20	16.7	14.7	83	74	70-130	12	
Chloroethane	ug/L	ND	20	20	21.3	21.4	106	107	70-130	.7	
Chloroform	ug/L	ND	20	20	18.4	15.9	92	80	70-130	14	
Chloromethane	ug/L	ND	20	20	17.9	17.9	90	90	70-130	.04	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.5	15.4	85	74	70-130	13	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.2	13.3	76	66	70-130	13	M0
Dibromochloromethane	ug/L	ND	20	20	15.4	14.6	77	73	70-130	6	
Ethylbenzene	ug/L	ND	20	20	16.6	14.2	83	71	70-130	16	
m&p-Xylene	ug/L	ND	40	40	35.2	28.9	88	72	70-130	20	
Methylene Chloride	ug/L	ND	20	20	16.8	15.4	84	77	70-130	9	
o-Xylene	ug/L	ND	20	20	16.6	14.9	83	74	70-130	11	
Styrene	ug/L	ND	20	20	16.2	13.8	81	69	70-130	16	M0
Tetrachloroethene	ug/L	ND	20	20	16.1	14.2	81	71	70-130	12	
Toluene	ug/L	ND	20	20	16.6	14.2	83	71	70-130	16	
trans-1,2-Dichloroethene	ug/L	ND	20	20	16.0	14.2	80	71	70-130	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	14.7	13.0	73	65	70-130	12	M0
Trichloroethene	ug/L	ND	20	20	15.9	13.4	80	67	70-130	17	M0
Trichlorofluoromethane	ug/L	ND	20	20	28.8	26.9	144	134	70-130	7	M0
Vinyl chloride	ug/L	ND	20	20	20.8	20.2	104	101	70-130	3	
1,2-Dichloroethane-d4 (S)	%						96	95	70-130		
4-Bromofluorobenzene (S)	%						94	94	70-130		
Toluene-d8 (S)	%						87	87	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope
Pace Project No.: 3044043

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope
Pace Project No.: 3044043

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3044043001	**RW-1S**	EPA 8260	MSV/8968		
3044043002	**RW-2S**	EPA 8260	MSV/8968		
3044043003	**RW-2D**	EPA 8260	MSV/8968		
3044043004	**RW-3S**	EPA 8260	MSV/8968		
3044043005	**RW-6D**	EPA 8260	MSV/8968		
3044043006	**TB-01**	EPA 8260	MSV/8968		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1440989

Section A Required Client Information:

Company: URS CORP
Address: 501 HOLIDAY DR. FOSTER PLAZA 4, STE. 300 PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41526904
Project Name: ESSEX/HOPE STATE TOWN
Project Number: 41526904, 10000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	RW-1S					3.29.11	1350		3				X					X	X		001
2	RW-2S						1355		3				X					X	X		002
3	RW-2D						1400		3				X					X	X		003
4	RW-3S						1410		3				X					X	X		004
5	RW-6D						1415		3				X					X	X		005
6	TB-01					3.29.11	—		2				X					X	X		006
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SEMI-ANNUAL	Valerie Sibeto/URS	3.29.11	~1450	[signature]	3.29.11	~1450				
RW SAMPLING				[signature]	3/30	1100	4.4	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3.29.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

SmB

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30440043

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 867255381028

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used (3) 5 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 4.4 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: LDL 3/30/11

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed LDL / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 3-31-11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 07, 2011

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

RE: Project: Essex-Hope Jamestown
Pace Project No.: 3054380

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on September 23, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope Jamestown
Pace Project No.: 3054380

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054380

Sample: RW-2D **Lab ID: 3054380001** Collected: 09/22/11 08:10 Received: 09/23/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/03/11 13:11	67-64-1	
Benzene	**9.4**	ug/L	1.0	1		10/03/11 13:11	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/03/11 13:11	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/03/11 13:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/03/11 13:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/03/11 13:11	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/03/11 13:11	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/03/11 13:11	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/03/11 13:11	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/03/11 13:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/03/11 13:11	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/03/11 13:11	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/03/11 13:11	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 13:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 13:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 13:11	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/03/11 13:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/03/11 13:11	107-06-2	
1,1-Dichloroethene	**24.5**	ug/L	5.0	1		10/03/11 13:11	75-35-4	
cis-1,2-Dichloroethene	**5030**	ug/L	250	50		10/03/11 13:37	156-59-2	
trans-1,2-Dichloroethene	**156**	ug/L	5.0	1		10/03/11 13:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/03/11 13:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/11 13:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/11 13:11	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/03/11 13:11	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/03/11 13:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/03/11 13:11	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		10/03/11 13:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/11 13:11	108-10-1	
Styrene	ND	ug/L	5.0	1		10/03/11 13:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/11 13:11	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/03/11 13:11	127-18-4	
Toluene	ND	ug/L	5.0	1		10/03/11 13:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/03/11 13:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/03/11 13:11	79-00-5	
Trichloroethene	**2220**	ug/L	250	50		10/03/11 13:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/03/11 13:11	75-69-4	
Vinyl chloride	**662**	ug/L	50.0	50		10/03/11 13:37	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/03/11 13:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/03/11 13:11	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		10/03/11 13:11	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		10/03/11 13:11	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		10/03/11 13:11	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054380

Sample: RW-2S **Lab ID: 3054380002** Collected: 09/22/11 08:15 Received: 09/23/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/03/11 14:03	67-64-1	
Benzene	ND	ug/L	1.0	1		10/03/11 14:03	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/03/11 14:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/03/11 14:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/03/11 14:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/03/11 14:03	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/03/11 14:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/03/11 14:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/03/11 14:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/03/11 14:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/03/11 14:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/03/11 14:03	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/03/11 14:03	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 14:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 14:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 14:03	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/03/11 14:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/03/11 14:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/03/11 14:03	75-35-4	
cis-1,2-Dichloroethene	**326**	ug/L	5.0	1		10/03/11 14:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/11 14:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/03/11 14:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/11 14:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/11 14:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/03/11 14:03	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/03/11 14:03	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/03/11 14:03	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		10/03/11 14:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/11 14:03	108-10-1	
Styrene	ND	ug/L	5.0	1		10/03/11 14:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/11 14:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/03/11 14:03	127-18-4	
Toluene	ND	ug/L	5.0	1		10/03/11 14:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/03/11 14:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/03/11 14:03	79-00-5	
Trichloroethene	**94.4**	ug/L	5.0	1		10/03/11 14:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/03/11 14:03	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/03/11 14:03	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/03/11 14:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/03/11 14:03	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		10/03/11 14:03	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		10/03/11 14:03	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		10/03/11 14:03	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054380

Sample: RW-1S **Lab ID: 3054380003** Collected: 09/22/11 08:25 Received: 09/23/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/03/11 14:30	67-64-1	
Benzene	ND	ug/L	1.0	1		10/03/11 14:30	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/03/11 14:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/03/11 14:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/03/11 14:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/03/11 14:30	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/03/11 14:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/03/11 14:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/03/11 14:30	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/03/11 14:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/03/11 14:30	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/03/11 14:30	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/03/11 14:30	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 14:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 14:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 14:30	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/03/11 14:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/03/11 14:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/03/11 14:30	75-35-4	
cis-1,2-Dichloroethene	**791**	ug/L	100	20		10/03/11 14:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/11 14:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/03/11 14:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/11 14:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/11 14:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/03/11 14:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/03/11 14:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/03/11 14:30	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		10/03/11 14:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/11 14:30	108-10-1	
Styrene	ND	ug/L	5.0	1		10/03/11 14:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/11 14:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/03/11 14:30	127-18-4	
Toluene	ND	ug/L	5.0	1		10/03/11 14:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/03/11 14:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/03/11 14:30	79-00-5	
Trichloroethene	**278**	ug/L	5.0	1		10/03/11 14:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/03/11 14:30	75-69-4	
Vinyl chloride	**3.2**	ug/L	1.0	1		10/03/11 14:30	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/03/11 14:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/03/11 14:30	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		10/03/11 14:30	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		10/03/11 14:30	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		10/03/11 14:30	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054380

Sample: RW-3S **Lab ID: 3054380004** Collected: 09/22/11 08:30 Received: 09/23/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/03/11 15:22	67-64-1	
Benzene	**5.8**	ug/L	1.0	1		10/03/11 15:22	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/03/11 15:22	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/03/11 15:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/03/11 15:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/03/11 15:22	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/03/11 15:22	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/03/11 15:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/03/11 15:22	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/03/11 15:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/03/11 15:22	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/03/11 15:22	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/03/11 15:22	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 15:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 15:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 15:22	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/03/11 15:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/03/11 15:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/03/11 15:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/11 15:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/11 15:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/03/11 15:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/11 15:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/11 15:22	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/03/11 15:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/03/11 15:22	591-78-6	
Isopropylbenzene (Cumene)	**6.6**	ug/L	1.0	1		10/03/11 15:22	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		10/03/11 15:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/11 15:22	108-10-1	
Styrene	ND	ug/L	5.0	1		10/03/11 15:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/11 15:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/03/11 15:22	127-18-4	
Toluene	ND	ug/L	5.0	1		10/03/11 15:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/03/11 15:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/03/11 15:22	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/03/11 15:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/03/11 15:22	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/03/11 15:22	75-01-4	
m&p-Xylene	**8.9**	ug/L	5.0	1		10/03/11 15:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/03/11 15:22	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		10/03/11 15:22	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		10/03/11 15:22	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		10/03/11 15:22	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054380

Sample: RW-6D **Lab ID: 3054380005** Collected: 09/22/11 08:50 Received: 09/23/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**36000**	ug/L	1000	100		10/03/11 16:14	67-64-1	
Benzene	**36.7**	ug/L	1.0	1		10/03/11 15:48	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/03/11 15:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/03/11 15:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/03/11 15:48	74-83-9	
2-Butanone (MEK)	**192**	ug/L	10.0	1		10/03/11 15:48	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/03/11 15:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/03/11 15:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/03/11 15:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/03/11 15:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/03/11 15:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/03/11 15:48	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/03/11 15:48	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 15:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 15:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 15:48	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/03/11 15:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/03/11 15:48	107-06-2	
1,1-Dichloroethene	**53.0**	ug/L	5.0	1		10/03/11 15:48	75-35-4	
cis-1,2-Dichloroethene	**24200**	ug/L	500	100		10/03/11 16:14	156-59-2	
trans-1,2-Dichloroethene	**297**	ug/L	5.0	1		10/03/11 15:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/03/11 15:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/11 15:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/11 15:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/03/11 15:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/03/11 15:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/03/11 15:48	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		10/03/11 15:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/11 15:48	108-10-1	
Styrene	ND	ug/L	5.0	1		10/03/11 15:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/11 15:48	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/03/11 15:48	127-18-4	
Toluene	ND	ug/L	5.0	1		10/03/11 15:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/03/11 15:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/03/11 15:48	79-00-5	
Trichloroethene	**3510**	ug/L	500	100		10/03/11 16:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/03/11 15:48	75-69-4	
Vinyl chloride	**2990**	ug/L	100	100		10/03/11 16:14	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/03/11 15:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/03/11 15:48	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		10/03/11 15:48	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/03/11 15:48	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		10/03/11 15:48	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054380

Sample: TB-01 **Lab ID: 3054380006** Collected: 09/22/11 00:01 Received: 09/23/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/03/11 16:40	67-64-1	
Benzene	ND	ug/L	1.0	1		10/03/11 16:40	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/03/11 16:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/03/11 16:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/03/11 16:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/03/11 16:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/03/11 16:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/03/11 16:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/03/11 16:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/03/11 16:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/03/11 16:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/03/11 16:40	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/03/11 16:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 16:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 16:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/03/11 16:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/03/11 16:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/03/11 16:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/03/11 16:40	75-35-4	
cis-1,2-Dichloroethene	**10.6**	ug/L	5.0	1		10/03/11 16:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/11 16:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/03/11 16:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/11 16:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/11 16:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/03/11 16:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/03/11 16:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/03/11 16:40	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		10/03/11 16:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/11 16:40	108-10-1	
Styrene	ND	ug/L	5.0	1		10/03/11 16:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/11 16:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/03/11 16:40	127-18-4	
Toluene	ND	ug/L	5.0	1		10/03/11 16:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/03/11 16:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/03/11 16:40	79-00-5	
Trichloroethene	**6.0**	ug/L	5.0	1		10/03/11 16:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/03/11 16:40	75-69-4	
Vinyl chloride	**1.3**	ug/L	1.0	1		10/03/11 16:40	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/03/11 16:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/03/11 16:40	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		10/03/11 16:40	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		10/03/11 16:40	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		10/03/11 16:40	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3054380

QC Batch: MSV/10643 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3054380001, 3054380002, 3054380003, 3054380004, 3054380005, 3054380006

METHOD BLANK: 350046 Matrix: Water
Associated Lab Samples: 3054380001, 3054380002, 3054380003, 3054380004, 3054380005, 3054380006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/03/11 12:18	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/03/11 12:18	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/03/11 12:18	
1,1-Dichloroethane	ug/L	ND	5.0	10/03/11 12:18	
1,1-Dichloroethene	ug/L	ND	5.0	10/03/11 12:18	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/03/11 12:18	
1,2-Dichloroethane	ug/L	ND	5.0	10/03/11 12:18	
1,2-Dichloropropane	ug/L	ND	5.0	10/03/11 12:18	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/03/11 12:18	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/03/11 12:18	
2-Butanone (MEK)	ug/L	ND	10.0	10/03/11 12:18	
2-Hexanone	ug/L	ND	10.0	10/03/11 12:18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/03/11 12:18	
Acetone	ug/L	ND	10.0	10/03/11 12:18	
Benzene	ug/L	ND	1.0	10/03/11 12:18	
Bromodichloromethane	ug/L	ND	5.0	10/03/11 12:18	
Bromoform	ug/L	ND	5.0	10/03/11 12:18	
Bromomethane	ug/L	ND	5.0	10/03/11 12:18	
Carbon disulfide	ug/L	ND	5.0	10/03/11 12:18	
Carbon tetrachloride	ug/L	ND	5.0	10/03/11 12:18	
Chlorobenzene	ug/L	ND	5.0	10/03/11 12:18	
Chloroethane	ug/L	ND	5.0	10/03/11 12:18	
Chloroform	ug/L	ND	5.0	10/03/11 12:18	
Chloromethane	ug/L	ND	5.0	10/03/11 12:18	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/03/11 12:18	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/03/11 12:18	
Dibromochloromethane	ug/L	ND	5.0	10/03/11 12:18	
Ethylbenzene	ug/L	ND	5.0	10/03/11 12:18	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/03/11 12:18	
m&p-Xylene	ug/L	ND	5.0	10/03/11 12:18	
Methylene Chloride	ug/L	ND	5.0	10/03/11 12:18	
o-Xylene	ug/L	ND	5.0	10/03/11 12:18	
Styrene	ug/L	ND	5.0	10/03/11 12:18	
Tetrachloroethene	ug/L	ND	5.0	10/03/11 12:18	
Toluene	ug/L	ND	5.0	10/03/11 12:18	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/03/11 12:18	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/03/11 12:18	
Trichloroethene	ug/L	ND	5.0	10/03/11 12:18	
Trichlorofluoromethane	ug/L	ND	5.0	10/03/11 12:18	
Vinyl chloride	ug/L	ND	1.0	10/03/11 12:18	
1,2-Dichloroethane-d4 (S)	%	96	70-130	10/03/11 12:18	
4-Bromofluorobenzene (S)	%	98	70-130	10/03/11 12:18	
Toluene-d8 (S)	%	97	70-130	10/03/11 12:18	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3054380

LABORATORY CONTROL SAMPLE: 350047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.4	92	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	19.9	100	64.6-121	
1,1,2-Trichloroethane	ug/L	20	18.5	92	75.6-120	
1,1-Dichloroethane	ug/L	20	17.6	88	68.5-122	
1,1-Dichloroethene	ug/L	20	16.2	81	57.1-120	
1,2-Dichlorobenzene	ug/L	20	19.6	98	69.6-120	
1,2-Dichloroethane	ug/L	20	17.4	87	60.5-133	
1,2-Dichloropropane	ug/L	20	17.9	89	71-120	
1,3-Dichlorobenzene	ug/L	20	19.3	96	68.4-121	
1,4-Dichlorobenzene	ug/L	20	20.8	104	68.5-123	
2-Butanone (MEK)	ug/L	20	19.3	97	55.7-138	
2-Hexanone	ug/L	20	19.9	100	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.8	99	64.5-121	
Acetone	ug/L	20	20.6	103	57.6-168	
Benzene	ug/L	20	18.6	93	69.8-120	
Bromodichloromethane	ug/L	20	16.5	83	66.5-120	
Bromoform	ug/L	20	17.6	88	61.1-120	
Bromomethane	ug/L	20	14.3	71	10.6-240	
Carbon disulfide	ug/L	20	20.9	105	60.2-122	
Carbon tetrachloride	ug/L	20	16.9	84	60.1-127	
Chlorobenzene	ug/L	20	18.6	93	72-120	
Chloroethane	ug/L	20	13.1	65	36.8-142	
Chloroform	ug/L	20	17.5	88	69-122	
Chloromethane	ug/L	20	13.8	69	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	17.9	90	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	18.4	92	74.3-120	
Dibromochloromethane	ug/L	20	17.8	89	66.1-120	
Ethylbenzene	ug/L	20	18.3	92	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	19.9	99	68.3-129	
m&p-Xylene	ug/L	40	38.7	97	70.4-130	
Methylene Chloride	ug/L	20	16.3	82	61.5-125	
o-Xylene	ug/L	20	18.6	93	70.6-127	
Styrene	ug/L	20	18.8	94	69.9-120	
Tetrachloroethene	ug/L	20	18.3	92	63.4-121	
Toluene	ug/L	20	19.0	95	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	17.0	85	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	18.2	91	71-120	
Trichloroethene	ug/L	20	17.6	88	65.9-120	
Trichlorofluoromethane	ug/L	20	16.4	82	44.8-137	
Vinyl chloride	ug/L	20	17.3	86	51-127	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3054380

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 350163 350164

Parameter	Units	3054393001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.7	20.8	98	104	70-130	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.8	19.6	94	98	70-130	4	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	19.8	94	99	70-130	6	
1,1-Dichloroethane	ug/L	ND	20	20	18.5	20.0	93	100	70-130	8	
1,1-Dichloroethene	ug/L	ND	20	20	18.3	19.6	91	98	70-130	7	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.2	20.8	96	104	70-130	8	
1,2-Dichloroethane	ug/L	ND	20	20	18.6	19.8	93	99	70-130	7	
1,2-Dichloropropane	ug/L	ND	20	20	19.1	19.7	95	98	70-130	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.2	21.1	96	105	70-130	9	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.0	21.3	100	107	70-130	6	
2-Butanone (MEK)	ug/L	ND	20	20	19.4	17.9	97	89	70-130	8	
2-Hexanone	ug/L	ND	20	20	20.4	18.6	102	93	70-130	9	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	21.2	18.7	106	94	70-130	12	
Acetone	ug/L	ND	20	20	23.1	20.0	91	75	70-130	15	
Benzene	ug/L	ND	20	20	19.4	20.9	97	104	70-130	7	
Bromodichloromethane	ug/L	ND	20	20	16.4	17.1	82	85	70-130	4	
Bromoform	ug/L	ND	20	20	15.7	16.1	79	81	70-130	2	
Bromomethane	ug/L	ND	20	20	16.3	15.0	81	75	70-130	8	
Carbon disulfide	ug/L	ND	20	20	16.7	15.5	83	77	70-130	7	
Carbon tetrachloride	ug/L	ND	20	20	17.5	18.5	88	92	70-130	5	
Chlorobenzene	ug/L	ND	20	20	19.6	20.9	98	105	70-130	7	
Chloroethane	ug/L	ND	20	20	14.4	13.9	72	70	70-130	3	
Chloroform	ug/L	ND	20	20	18.5	19.9	92	100	70-130	8	
Chloromethane	ug/L	ND	20	20	15.8	17.1	78	85	70-130	8	
cis-1,2-Dichloroethene	ug/L	1.3	20	20	19.1	20.7	89	97	70-130	8	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.8	19.3	94	97	70-130	3	
Dibromochloromethane	ug/L	ND	20	20	16.6	17.1	83	86	70-130	3	
Ethylbenzene	ug/L	ND	20	20	19.6	21.3	98	106	70-130	8	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.5	22.3	103	111	70-130	8	
m&p-Xylene	ug/L	ND	40	40	40.3	44.0	101	110	70-130	9	
Methylene Chloride	ug/L	ND	20	20	17.3	18.3	86	92	70-130	6	
o-Xylene	ug/L	ND	20	20	19.4	21.0	97	105	70-130	8	
Styrene	ug/L	ND	20	20	19.2	20.6	96	103	70-130	7	
Tetrachloroethene	ug/L	ND	20	20	20.1	21.0	101	105	70-130	4	
Toluene	ug/L	ND	20	20	19.8	21.7	99	109	70-130	9	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.3	20.0	91	100	70-130	9	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.1	18.8	91	94	70-130	4	
Trichloroethene	ug/L	ND	20	20	19.1	20.4	94	101	70-130	7	
Trichlorofluoromethane	ug/L	ND	20	20	22.4	21.8	112	109	70-130	3	
Vinyl chloride	ug/L	ND	20	20	20.0	20.5	100	103	70-130	3	
1,2-Dichloroethane-d4 (S)	%						103	101	70-130		
4-Bromofluorobenzene (S)	%						97	99	70-130		
Toluene-d8 (S)	%						98	97	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope Jamestown
Pace Project No.: 3054380

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope Jamestown
Pace Project No.: 3054380

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3054380001	**RW-2D**	EPA 8260	MSV/10643		
3054380002	**RW-2S**	EPA 8260	MSV/10643		
3054380003	**RW-1S**	EPA 8260	MSV/10643		
3054380004	**RW-3S**	EPA 8260	MSV/10643		
3054380005	**RW-6D**	EPA 8260	MSV/10643		
3054380006	**TB-01**	EPA 8260	MSV/10643		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1492354

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 7, 501 HOLIDAY DR., STE 300, PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568904
Project Name: ESSEX/HUDE JAMESTOWN
Project Number: 41568904, 40000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	RW-2D	WT	G			9.22.11	0810		3				X					X	X		001
2	RW-2S	WT	G				0815		3				X					X	X		002
3	RW-1S	WT	G				0825		3				X					X	X		003
4	RW-3S	WT	G				0830		3				X					X	X		004
5	RW-4D	WT	G				0850		3				X					X	X		005
6	TB-01	WT	G			9.22.11	—		2				X					X	X		006
7																					
8																					
9																					
10																					
11																					
12																					

30541380

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SEMI-ANNUAL RW SAMPLING	Valerie Sibeto/URS	9.22.11	0915	[illegible]	9.22.11	0915				
				[illegible]/Pace	9/23/11	1000	1.4	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9.22.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30643460

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 8072 5538 1153

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other _____

Thermometer Used 3 (5) Type of Ice: (Wet) Blue None [X] Samples on ice, cooling process has begun

Cooler Temperature 1.4 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: RES

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	[X]Yes [ ]No [ ]N/A	1.
Chain of Custody Filled Out:	[X]Yes [ ]No [ ]N/A	2.
Chain of Custody Relinquished:	[X]Yes [ ]No [ ]N/A	3.
Sampler Name & Signature on COC:	[X]Yes [ ]No [ ]N/A	4.
Samples Arrived within Hold Time:	[X]Yes [ ]No [ ]N/A	5.
Short Hold Time Analysis (<72hr):	[ ]Yes [X]No [ ]N/A	6.
Rush Turn Around Time Requested:	[ ]Yes [X]No [ ]N/A	7.
Sufficient Volume:	[X]Yes [ ]No [ ]N/A	8.
Correct Containers Used:	[X]Yes [ ]No [ ]N/A	9.
-Pace Containers Used:	[X]Yes [ ]No [ ]N/A	
Containers Intact:	[X]Yes [ ]No [ ]N/A	10.
Filtered volume received for Dissolved tests	[ ]Yes [ ]No [X]N/A	11.
Sample Labels match COC: 9/2/11 RES	[X]Yes [ ]No [ ]N/A	12. RW-2D and RW-2S are labeled MW-2D and MW-2S, times match
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	[ ]Yes [ ]No [X]N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ]Yes [ ]No [X]N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	[X]Yes [ ]No	Initial when completed RES / Lot # of added preservative
Samples checked for dechlorination:	[ ]Yes [ ]No [X]N/A	14.
Headspace in VOA Vials (>6mm):	[ ]Yes [X]No [ ]N/A	15.
Trip Blank Present:	[X]Yes [ ]No [ ]N/A	16.
Trip Blank Custody Seals Present	[X]Yes [ ]No [ ]N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rachel D Christian **Date:** 9/2/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

APPENDIX B-2

2011 ANNUAL PMP MONITORING WELL DATA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 05, 2011

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

RE: Project: Essex-Hope Jamestown
Pace Project No.: 3054208

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on September 21, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

Sample: MW-25S **Lab ID: 3054208001** Collected: 09/20/11 08:55 Received: 09/21/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/27/11 16:12	67-64-1	
Benzene	ND	ug/L	1.0	1		09/27/11 16:12	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/27/11 16:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/27/11 16:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/27/11 16:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/27/11 16:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/27/11 16:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/27/11 16:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/27/11 16:12	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/27/11 16:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/27/11 16:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/27/11 16:12	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/27/11 16:12	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 16:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 16:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 16:12	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/27/11 16:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/27/11 16:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/27/11 16:12	75-35-4	
cis-1,2-Dichloroethene	**22.9**	ug/L	5.0	1		09/27/11 16:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/27/11 16:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/27/11 16:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 16:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 16:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/27/11 16:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/27/11 16:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/27/11 16:12	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/27/11 16:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/27/11 16:12	108-10-1	
Styrene	ND	ug/L	5.0	1		09/27/11 16:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/27/11 16:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/27/11 16:12	127-18-4	
Toluene	ND	ug/L	5.0	1		09/27/11 16:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/27/11 16:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/27/11 16:12	79-00-5	
Trichloroethene	**169**	ug/L	5.0	1		09/27/11 16:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/27/11 16:12	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		09/27/11 16:12	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/27/11 16:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/27/11 16:12	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		09/27/11 16:12	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		09/27/11 16:12	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		09/27/11 16:12	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

Sample: MW-25D **Lab ID: 3054208002** Collected: 09/20/11 09:25 Received: 09/21/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/27/11 16:36	67-64-1	
Benzene	ND	ug/L	1.0	1		09/27/11 16:36	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/27/11 16:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/27/11 16:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/27/11 16:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/27/11 16:36	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/27/11 16:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/27/11 16:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/27/11 16:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/27/11 16:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/27/11 16:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/27/11 16:36	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/27/11 16:36	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 16:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 16:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 16:36	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/27/11 16:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/27/11 16:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/27/11 16:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/27/11 16:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/27/11 16:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/27/11 16:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 16:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 16:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/27/11 16:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/27/11 16:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/27/11 16:36	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/27/11 16:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/27/11 16:36	108-10-1	
Styrene	ND	ug/L	5.0	1		09/27/11 16:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/27/11 16:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/27/11 16:36	127-18-4	
Toluene	ND	ug/L	5.0	1		09/27/11 16:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/27/11 16:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/27/11 16:36	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/27/11 16:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/27/11 16:36	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		09/27/11 16:36	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/27/11 16:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/27/11 16:36	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		09/27/11 16:36	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		09/27/11 16:36	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		09/27/11 16:36	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

Sample: VP-6D **Lab ID: 3054208003** Collected: 09/20/11 10:10 Received: 09/21/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/27/11 17:01	67-64-1	
Benzene	ND	ug/L	1.0	1		09/27/11 17:01	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/27/11 17:01	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/27/11 17:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/27/11 17:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/27/11 17:01	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/27/11 17:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/27/11 17:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/27/11 17:01	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/27/11 17:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/27/11 17:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/27/11 17:01	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/27/11 17:01	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 17:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 17:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 17:01	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/27/11 17:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/27/11 17:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/27/11 17:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/27/11 17:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/27/11 17:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/27/11 17:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 17:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 17:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/27/11 17:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/27/11 17:01	591-78-6	
Isopropylbenzene (Cumene)	**4.7**	ug/L	1.0	1		09/27/11 17:01	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/27/11 17:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/27/11 17:01	108-10-1	
Styrene	ND	ug/L	5.0	1		09/27/11 17:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/27/11 17:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/27/11 17:01	127-18-4	
Toluene	ND	ug/L	5.0	1		09/27/11 17:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/27/11 17:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/27/11 17:01	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/27/11 17:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/27/11 17:01	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		09/27/11 17:01	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/27/11 17:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/27/11 17:01	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		09/27/11 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		09/27/11 17:01	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/27/11 17:01	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

Sample: MW-2 **Lab ID: 3054208004** Collected: 09/20/11 10:35 Received: 09/21/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/27/11 17:25	67-64-1	
Benzene	ND	ug/L	1.0	1		09/27/11 17:25	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/27/11 17:25	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/27/11 17:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/27/11 17:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/27/11 17:25	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/27/11 17:25	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/27/11 17:25	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/27/11 17:25	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/27/11 17:25	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/27/11 17:25	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/27/11 17:25	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/27/11 17:25	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 17:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 17:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 17:25	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/27/11 17:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/27/11 17:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/27/11 17:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/27/11 17:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/27/11 17:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/27/11 17:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 17:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 17:25	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/27/11 17:25	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/27/11 17:25	591-78-6	
Isopropylbenzene (Cumene)	**26.5**	ug/L	1.0	1		09/27/11 17:25	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/27/11 17:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/27/11 17:25	108-10-1	
Styrene	ND	ug/L	5.0	1		09/27/11 17:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/27/11 17:25	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/27/11 17:25	127-18-4	
Toluene	ND	ug/L	5.0	1		09/27/11 17:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/27/11 17:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/27/11 17:25	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/27/11 17:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/27/11 17:25	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		09/27/11 17:25	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/27/11 17:25	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/27/11 17:25	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		09/27/11 17:25	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		09/27/11 17:25	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		09/27/11 17:25	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

Sample: MW-14D **Lab ID: 3054208005** Collected: 09/20/11 11:35 Received: 09/21/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/27/11 17:50	67-64-1	
Benzene	ND	ug/L	1.0	1		09/27/11 17:50	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/27/11 17:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/27/11 17:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/27/11 17:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/27/11 17:50	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/27/11 17:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/27/11 17:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/27/11 17:50	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/27/11 17:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/27/11 17:50	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/27/11 17:50	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/27/11 17:50	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 17:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 17:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 17:50	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/27/11 17:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/27/11 17:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/27/11 17:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/27/11 17:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/27/11 17:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/27/11 17:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 17:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 17:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/27/11 17:50	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/27/11 17:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/27/11 17:50	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/27/11 17:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/27/11 17:50	108-10-1	
Styrene	ND	ug/L	5.0	1		09/27/11 17:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/27/11 17:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/27/11 17:50	127-18-4	
Toluene	ND	ug/L	5.0	1		09/27/11 17:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/27/11 17:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/27/11 17:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/27/11 17:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/27/11 17:50	75-69-4	
Vinyl chloride	**6.7**	ug/L	1.0	1		09/27/11 17:50	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/27/11 17:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/27/11 17:50	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		09/27/11 17:50	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		09/27/11 17:50	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		09/27/11 17:50	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

Sample: MW-14S **Lab ID: 3054208006** Collected: 09/20/11 12:00 Received: 09/21/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/27/11 18:14	67-64-1	
Benzene	ND	ug/L	1.0	1		09/27/11 18:14	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/27/11 18:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/27/11 18:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/27/11 18:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/27/11 18:14	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/27/11 18:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/27/11 18:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/27/11 18:14	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/27/11 18:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/27/11 18:14	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/27/11 18:14	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/27/11 18:14	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 18:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 18:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 18:14	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/27/11 18:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/27/11 18:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/27/11 18:14	75-35-4	
cis-1,2-Dichloroethene	**54.5**	ug/L	5.0	1		09/27/11 18:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/27/11 18:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/27/11 18:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 18:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 18:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/27/11 18:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/27/11 18:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/27/11 18:14	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/27/11 18:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/27/11 18:14	108-10-1	
Styrene	ND	ug/L	5.0	1		09/27/11 18:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/27/11 18:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/27/11 18:14	127-18-4	
Toluene	ND	ug/L	5.0	1		09/27/11 18:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/27/11 18:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/27/11 18:14	79-00-5	
Trichloroethene	**48.7**	ug/L	5.0	1		09/27/11 18:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/27/11 18:14	75-69-4	
Vinyl chloride	**2.2**	ug/L	1.0	1		09/27/11 18:14	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/27/11 18:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/27/11 18:14	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		09/27/11 18:14	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		09/27/11 18:14	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		09/27/11 18:14	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

Sample: MW-15D **Lab ID: 3054208007** Collected: 09/20/11 12:55 Received: 09/21/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/27/11 19:03	67-64-1	
Benzene	**2.3**	ug/L	1.0	1		09/27/11 19:03	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/27/11 19:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/27/11 19:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/27/11 19:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/27/11 19:03	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/27/11 19:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/27/11 19:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/27/11 19:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/27/11 19:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/27/11 19:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/27/11 19:03	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/27/11 19:03	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 19:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 19:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 19:03	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/27/11 19:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/27/11 19:03	107-06-2	
1,1-Dichloroethene	**151**	ug/L	5.0	1		09/27/11 19:03	75-35-4	
cis-1,2-Dichloroethene	**22800**	ug/L	1000	200		09/27/11 19:27	156-59-2	
trans-1,2-Dichloroethene	**239**	ug/L	5.0	1		09/27/11 19:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/27/11 19:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 19:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 19:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/27/11 19:03	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/27/11 19:03	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/27/11 19:03	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/27/11 19:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/27/11 19:03	108-10-1	
Styrene	ND	ug/L	5.0	1		09/27/11 19:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/27/11 19:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/27/11 19:03	127-18-4	
Toluene	ND	ug/L	5.0	1		09/27/11 19:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/27/11 19:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/27/11 19:03	79-00-5	
Trichloroethene	**12800**	ug/L	1000	200		09/27/11 19:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/27/11 19:03	75-69-4	
Vinyl chloride	**938**	ug/L	200	200		09/27/11 19:27	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/27/11 19:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/27/11 19:03	95-47-6	
4-Bromofluorobenzene (S)	105	%	70-130	1		09/27/11 19:03	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		09/27/11 19:03	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		09/27/11 19:03	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

Sample: MW-15S **Lab ID: 3054208008** Collected: 09/20/11 13:10 Received: 09/21/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/27/11 19:52	67-64-1	
Benzene	ND	ug/L	1.0	1		09/27/11 19:52	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/27/11 19:52	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/27/11 19:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/27/11 19:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/27/11 19:52	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/27/11 19:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/27/11 19:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/27/11 19:52	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/27/11 19:52	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/27/11 19:52	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/27/11 19:52	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/27/11 19:52	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 19:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 19:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 19:52	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/27/11 19:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/27/11 19:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/27/11 19:52	75-35-4	
cis-1,2-Dichloroethene	**209**	ug/L	5.0	1		09/27/11 19:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/27/11 19:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/27/11 19:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 19:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 19:52	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/27/11 19:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/27/11 19:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/27/11 19:52	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/27/11 19:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/27/11 19:52	108-10-1	
Styrene	ND	ug/L	5.0	1		09/27/11 19:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/27/11 19:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/27/11 19:52	127-18-4	
Toluene	ND	ug/L	5.0	1		09/27/11 19:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/27/11 19:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/27/11 19:52	79-00-5	
Trichloroethene	**54.9**	ug/L	5.0	1		09/27/11 19:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/27/11 19:52	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		09/27/11 19:52	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/27/11 19:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/27/11 19:52	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		09/27/11 19:52	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		09/27/11 19:52	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		09/27/11 19:52	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

Sample: TB-01 **Lab ID: 3054208009** Collected: 09/20/11 00:01 Received: 09/21/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/27/11 15:48	67-64-1	
Benzene	ND	ug/L	1.0	1		09/27/11 15:48	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/27/11 15:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/27/11 15:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/27/11 15:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/27/11 15:48	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/27/11 15:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/27/11 15:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/27/11 15:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/27/11 15:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/27/11 15:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/27/11 15:48	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/27/11 15:48	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 15:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 15:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/27/11 15:48	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/27/11 15:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/27/11 15:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/27/11 15:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/27/11 15:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/27/11 15:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/27/11 15:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 15:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/27/11 15:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/27/11 15:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/27/11 15:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/27/11 15:48	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/27/11 15:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/27/11 15:48	108-10-1	
Styrene	ND	ug/L	5.0	1		09/27/11 15:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/27/11 15:48	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/27/11 15:48	127-18-4	
Toluene	ND	ug/L	5.0	1		09/27/11 15:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/27/11 15:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/27/11 15:48	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/27/11 15:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/27/11 15:48	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		09/27/11 15:48	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/27/11 15:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/27/11 15:48	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		09/27/11 15:48	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		09/27/11 15:48	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		09/27/11 15:48	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

QC Batch: MSV/10576 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3054208001, 3054208002, 3054208003, 3054208004, 3054208005, 3054208006, 3054208007, 3054208008, 3054208009

METHOD BLANK: 347745 Matrix: Water
Associated Lab Samples: 3054208001, 3054208002, 3054208003, 3054208004, 3054208005, 3054208006, 3054208007, 3054208008, 3054208009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	09/27/11 15:23	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/27/11 15:23	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/27/11 15:23	
1,1-Dichloroethane	ug/L	ND	5.0	09/27/11 15:23	
1,1-Dichloroethene	ug/L	ND	5.0	09/27/11 15:23	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/27/11 15:23	
1,2-Dichloroethane	ug/L	ND	5.0	09/27/11 15:23	
1,2-Dichloropropane	ug/L	ND	5.0	09/27/11 15:23	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/27/11 15:23	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/27/11 15:23	
2-Butanone (MEK)	ug/L	ND	10.0	09/27/11 15:23	
2-Hexanone	ug/L	ND	10.0	09/27/11 15:23	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	09/27/11 15:23	
Acetone	ug/L	ND	10.0	09/27/11 15:23	
Benzene	ug/L	ND	1.0	09/27/11 15:23	
Bromodichloromethane	ug/L	ND	5.0	09/27/11 15:23	
Bromoform	ug/L	ND	5.0	09/27/11 15:23	
Bromomethane	ug/L	ND	5.0	09/27/11 15:23	
Carbon disulfide	ug/L	ND	5.0	09/27/11 15:23	
Carbon tetrachloride	ug/L	ND	5.0	09/27/11 15:23	
Chlorobenzene	ug/L	ND	5.0	09/27/11 15:23	
Chloroethane	ug/L	ND	5.0	09/27/11 15:23	
Chloroform	ug/L	ND	5.0	09/27/11 15:23	
Chloromethane	ug/L	ND	5.0	09/27/11 15:23	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/27/11 15:23	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/27/11 15:23	
Dibromochloromethane	ug/L	ND	5.0	09/27/11 15:23	
Ethylbenzene	ug/L	ND	5.0	09/27/11 15:23	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/27/11 15:23	
m&p-Xylene	ug/L	ND	5.0	09/27/11 15:23	
Methylene Chloride	ug/L	ND	5.0	09/27/11 15:23	
o-Xylene	ug/L	ND	5.0	09/27/11 15:23	
Styrene	ug/L	ND	5.0	09/27/11 15:23	
Tetrachloroethene	ug/L	ND	5.0	09/27/11 15:23	
Toluene	ug/L	ND	5.0	09/27/11 15:23	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/27/11 15:23	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/27/11 15:23	
Trichloroethene	ug/L	ND	5.0	09/27/11 15:23	
Trichlorofluoromethane	ug/L	ND	5.0	09/27/11 15:23	
Vinyl chloride	ug/L	ND	1.0	09/27/11 15:23	
1,2-Dichloroethane-d4 (S)	%	104	70-130	09/27/11 15:23	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

METHOD BLANK: 347745 Matrix: Water

Associated Lab Samples: 3054208001, 3054208002, 3054208003, 3054208004, 3054208005, 3054208006, 3054208007, 3054208008, 3054208009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	97	70-130	09/27/11 15:23	
Toluene-d8 (S)	%	94	70-130	09/27/11 15:23	

LABORATORY CONTROL SAMPLE: 347746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.5	108	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	16.5	82	64.6-121	
1,1,2-Trichloroethane	ug/L	20	18.1	90	75.6-120	
1,1-Dichloroethane	ug/L	20	19.4	97	68.5-122	
1,1-Dichloroethene	ug/L	20	17.5	87	57.1-120	
1,2-Dichlorobenzene	ug/L	20	21.3	106	69.6-120	
1,2-Dichloroethane	ug/L	20	20.3	101	60.5-133	
1,2-Dichloropropane	ug/L	20	17.1	85	71-120	
1,3-Dichlorobenzene	ug/L	20	20.9	105	68.4-121	
1,4-Dichlorobenzene	ug/L	20	20.5	103	68.5-123	
2-Butanone (MEK)	ug/L	20	15.9	80	55.7-138	
2-Hexanone	ug/L	20	17.5	87	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.1	81	64.5-121	
Acetone	ug/L	20	17.8	89	57.6-168	
Benzene	ug/L	20	18.6	93	69.8-120	
Bromodichloromethane	ug/L	20	17.5	87	66.5-120	
Bromoform	ug/L	20	16.8	84	61.1-120	
Bromomethane	ug/L	20	32.4	162	10.6-240	
Carbon disulfide	ug/L	20	20.6	103	60.2-122	
Carbon tetrachloride	ug/L	20	18.3	91	60.1-127	
Chlorobenzene	ug/L	20	19.4	97	72-120	
Chloroethane	ug/L	20	20.0	100	36.8-142	
Chloroform	ug/L	20	20.8	104	69-122	
Chloromethane	ug/L	20	19.7	98	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	21.1	105	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	17.1	86	74.3-120	
Dibromochloromethane	ug/L	20	18.3	92	66.1-120	
Ethylbenzene	ug/L	20	20.1	100	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	21.0	105	68.3-129	
m&p-Xylene	ug/L	40	41.7	104	70.4-130	
Methylene Chloride	ug/L	20	17.6	88	61.5-125	
o-Xylene	ug/L	20	20.1	101	70.6-127	
Styrene	ug/L	20	20.4	102	69.9-120	
Tetrachloroethene	ug/L	20	18.7	94	63.4-121	
Toluene	ug/L	20	19.4	97	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	18.3	91	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	15.4	77	71-120	
Trichloroethene	ug/L	20	18.5	93	65.9-120	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

LABORATORY CONTROL SAMPLE: 347746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichlorofluoromethane	ug/L	20	21.1	105	44.8-137	
Vinyl chloride	ug/L	20	21.0	105	51-127	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 347747 347748

Parameter	Units	3054208003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	17.1	21.8	85	109	70-130	24	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	12.0	16.0	60	80	70-130	29	M0
1,1,2-Trichloroethane	ug/L	ND	20	20	13.6	18.4	68	92	70-130	30	M0
1,1-Dichloroethane	ug/L	ND	20	20	14.6	18.3	73	91	70-130	22	
1,1-Dichloroethene	ug/L	ND	20	20	13.4	17.3	67	87	70-130	25	M0
1,2-Dichlorobenzene	ug/L	ND	20	20	14.8	19.1	74	95	70-130	25	
1,2-Dichloroethane	ug/L	ND	20	20	15.5	20.4	77	102	70-130	27	
1,2-Dichloropropane	ug/L	ND	20	20	12.6	15.7	63	79	70-130	22	M0
1,3-Dichlorobenzene	ug/L	ND	20	20	14.7	17.8	73	89	70-130	19	
1,4-Dichlorobenzene	ug/L	ND	20	20	14.3	18.1	72	90	70-130	23	
2-Butanone (MEK)	ug/L	ND	20	20	16.3	19.2	81	96	70-130	17	
2-Hexanone	ug/L	ND	20	20	16.2	20.4	81	102	70-130	23	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	14.6	18.1	73	91	70-130	22	
Acetone	ug/L	ND	20	20	16.7	18.5	73	82	70-130	10	
Benzene	ug/L	ND	20	20	14.1	17.5	71	88	70-130	21	
Bromodichloromethane	ug/L	ND	20	20	13.6	16.9	68	84	70-130	22	M0
Bromoform	ug/L	ND	20	20	12.8	17.4	64	87	70-130	30	M0
Bromomethane	ug/L	ND	20	20	27.5	28.5	138	142	70-130	3	M0
Carbon disulfide	ug/L	ND	20	20	17.7	18.1	87	89	70-130	2	
Carbon tetrachloride	ug/L	ND	20	20	15.4	19.2	77	96	70-130	22	
Chlorobenzene	ug/L	ND	20	20	14.4	17.8	72	89	70-130	21	
Chloroethane	ug/L	ND	20	20	17.0	18.9	85	94	70-130	11	
Chloroform	ug/L	ND	20	20	16.2	20.1	81	101	70-130	21	
Chloromethane	ug/L	ND	20	20	16.6	17.9	83	89	70-130	8	
cis-1,2-Dichloroethene	ug/L	ND	20	20	15.4	19.6	77	98	70-130	24	
cis-1,3-Dichloropropene	ug/L	ND	20	20	13.7	17.4	69	87	70-130	24	M0
Dibromochloromethane	ug/L	ND	20	20	14.0	18.2	70	91	70-130	26	
Ethylbenzene	ug/L	ND	20	20	14.6	18.1	73	91	70-130	22	
Isopropylbenzene (Cumene)	ug/L	4.7	20	20	20.3	23.6	78	94	70-130	15	
m&p-Xylene	ug/L	ND	40	40	30.6	38.5	77	96	70-130	23	
Methylene Chloride	ug/L	ND	20	20	13.1	16.2	65	80	70-130	21	M0
o-Xylene	ug/L	ND	20	20	15.0	18.8	75	94	70-130	23	
Styrene	ug/L	ND	20	20	14.6	18.8	73	94	70-130	25	
Tetrachloroethene	ug/L	ND	20	20	14.7	17.3	74	86	70-130	16	
Toluene	ug/L	ND	20	20	14.4	18.1	72	90	70-130	22	
trans-1,2-Dichloroethene	ug/L	ND	20	20	14.2	16.9	71	85	70-130	17	
trans-1,3-Dichloropropene	ug/L	ND	20	20	12.8	16.7	64	84	70-130	27	M0

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 347747 347748

Parameter	Units	3054208003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Trichloroethene	ug/L	ND	20	20	13.5	17.2	68	86	70-130	24	M0
Trichlorofluoromethane	ug/L	ND	20	20	24.3	26.1	122	130	70-130	7	
Vinyl chloride	ug/L	ND	20	20	20.5	21.4	103	107	70-130	4	
1,2-Dichloroethane-d4 (S)	%						100	111	70-130		
4-Bromofluorobenzene (S)	%						104	98	70-130		
Toluene-d8 (S)	%						101	99	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope Jamestown
Pace Project No.: 3054208

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3054208001	**MW-25S**	EPA 8260	MSV/10576		
3054208002	**MW-25D**	EPA 8260	MSV/10576		
3054208003	**VP-6D**	EPA 8260	MSV/10576		
3054208004	**MW-2**	EPA 8260	MSV/10576		
3054208005	**MW-14D**	EPA 8260	MSV/10576		
3054208006	**MW-14S**	EPA 8260	MSV/10576		
3054208007	**MW-15D**	EPA 8260	MSV/10576		
3054208008	**MW-15S**	EPA 8260	MSV/10576		
3054208009	**TB-01**	EPA 8260	MSV/10576		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1492348

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 4, STE 300 501 HOLIDAY DR. PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568904
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41568904, 40000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-25S	WTG				9/20/11	0855						X						X		001
2	MW-25D						0925						X						X		002
3	VP-6D						1010						X						X		003
4	MW-2D						1035						X						X		004
5	MW-14D						1135						X						X		005
6	MW-14S						1200						X						X		006
7	MW-15D						1255						X						X		007
8	MW-15S	WW					1310						X						X		008
9	TB-01	WTG				9-20-11	—						X						X		009
10																					
11																					
12																					

3054208

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
ANNUAL PMP SAMPLING	Valerie Sibeto / URS	9.20.11	1530	Fed Ex and Pace	9/20	1530	0.9	Y	N	Y
					21	1030				

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9.20.11

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30542O8

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 867255381131

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 3 (5) Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.9 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 9/21

Temp should be above freezing to 6°C

Comments:

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes	☑No		Initial when completed: RL Lot # of added preservative:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☑No	☐N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Sample MW-2D was corrected to MW-2 per client's request.

Project Manager Review: Rachel D Christner Date: 9/22/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 06, 2011

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

RE: Project: Essex-Hope Jamestown
Pace Project No.: 3054316

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on September 22, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

Sample: MW-6 **Lab ID: 3054316001** Collected: 09/21/11 09:10 Received: 09/22/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/29/11 12:23	67-64-1	
Benzene	ND	ug/L	1.0	1		09/29/11 12:23	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/29/11 12:23	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/29/11 12:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/29/11 12:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/11 12:23	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 12:23	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/29/11 12:23	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/29/11 12:23	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/29/11 12:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/29/11 12:23	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/29/11 12:23	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/29/11 12:23	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 12:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 12:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 12:23	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/29/11 12:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/29/11 12:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/29/11 12:23	75-35-4	
cis-1,2-Dichloroethene	**27.3**	ug/L	5.0	1		09/29/11 12:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/29/11 12:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/29/11 12:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 12:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 12:23	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/29/11 12:23	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/29/11 12:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/11 12:23	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/29/11 12:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/11 12:23	108-10-1	
Styrene	ND	ug/L	5.0	1		09/29/11 12:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/29/11 12:23	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/29/11 12:23	127-18-4	
Toluene	ND	ug/L	5.0	1		09/29/11 12:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/29/11 12:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/29/11 12:23	79-00-5	
Trichloroethene	**8.3**	ug/L	5.0	1		09/29/11 12:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/29/11 12:23	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		09/29/11 12:23	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/29/11 12:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/29/11 12:23	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		09/29/11 12:23	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		09/29/11 12:23	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		09/29/11 12:23	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

Sample: MW-8 **Lab ID: 3054316002** Collected: 09/21/11 09:40 Received: 09/22/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/29/11 12:47	67-64-1	
Benzene	ND	ug/L	1.0	1		09/29/11 12:47	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/29/11 12:47	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/29/11 12:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/29/11 12:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/11 12:47	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 12:47	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/29/11 12:47	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/29/11 12:47	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/29/11 12:47	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/29/11 12:47	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/29/11 12:47	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/29/11 12:47	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 12:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 12:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 12:47	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/29/11 12:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/29/11 12:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/29/11 12:47	75-35-4	
cis-1,2-Dichloroethene	**100**	ug/L	5.0	1		09/29/11 12:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/29/11 12:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/29/11 12:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 12:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 12:47	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/29/11 12:47	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/29/11 12:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/11 12:47	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/29/11 12:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/11 12:47	108-10-1	
Styrene	ND	ug/L	5.0	1		09/29/11 12:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/29/11 12:47	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/29/11 12:47	127-18-4	
Toluene	ND	ug/L	5.0	1		09/29/11 12:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/29/11 12:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/29/11 12:47	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/29/11 12:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/29/11 12:47	75-69-4	
Vinyl chloride	**12.1**	ug/L	1.0	1		09/29/11 12:47	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/29/11 12:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/29/11 12:47	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		09/29/11 12:47	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		09/29/11 12:47	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		09/29/11 12:47	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

Sample: MW-7S **Lab ID: 3054316003** Collected: 09/21/11 10:15 Received: 09/22/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/29/11 13:12	67-64-1	
Benzene	ND	ug/L	1.0	1		09/29/11 13:12	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/29/11 13:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/29/11 13:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/29/11 13:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/11 13:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 13:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/29/11 13:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/29/11 13:12	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/29/11 13:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/29/11 13:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/29/11 13:12	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/29/11 13:12	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 13:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 13:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 13:12	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/29/11 13:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/29/11 13:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/29/11 13:12	75-35-4	
cis-1,2-Dichloroethene	**586**	ug/L	50.0	10		10/03/11 15:12	156-59-2	
trans-1,2-Dichloroethene	**8.7**	ug/L	5.0	1		09/29/11 13:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/29/11 13:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 13:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 13:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/29/11 13:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/29/11 13:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/11 13:12	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/29/11 13:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/11 13:12	108-10-1	
Styrene	ND	ug/L	5.0	1		09/29/11 13:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/29/11 13:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/29/11 13:12	127-18-4	
Toluene	ND	ug/L	5.0	1		09/29/11 13:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/29/11 13:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/29/11 13:12	79-00-5	
Trichloroethene	**163**	ug/L	5.0	1		09/29/11 13:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/29/11 13:12	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		09/29/11 13:12	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/29/11 13:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/29/11 13:12	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1		09/29/11 13:12	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		09/29/11 13:12	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		09/29/11 13:12	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

Sample: MW-7D **Lab ID: 3054316004** Collected: 09/21/11 10:35 Received: 09/22/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/29/11 13:36	67-64-1	
Benzene	**12.8**	ug/L	1.0	1		09/29/11 13:36	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/29/11 13:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/29/11 13:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/29/11 13:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/11 13:36	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 13:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/29/11 13:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/29/11 13:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/29/11 13:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/29/11 13:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/29/11 13:36	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/29/11 13:36	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 13:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 13:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 13:36	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/29/11 13:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/29/11 13:36	107-06-2	
1,1-Dichloroethene	**18.5**	ug/L	5.0	1		09/29/11 13:36	75-35-4	
cis-1,2-Dichloroethene	**5270**	ug/L	500	100		10/03/11 16:00	156-59-2	
trans-1,2-Dichloroethene	**63.9**	ug/L	5.0	1		09/29/11 13:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/29/11 13:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 13:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 13:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/29/11 13:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/29/11 13:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/11 13:36	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/29/11 13:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/11 13:36	108-10-1	
Styrene	ND	ug/L	5.0	1		09/29/11 13:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/29/11 13:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/29/11 13:36	127-18-4	
Toluene	ND	ug/L	5.0	1		09/29/11 13:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/29/11 13:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/29/11 13:36	79-00-5	
Trichloroethene	**367**	ug/L	5.0	1		09/29/11 13:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/29/11 13:36	75-69-4	
Vinyl chloride	**754**	ug/L	100	100		10/03/11 16:00	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/29/11 13:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/29/11 13:36	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1		09/29/11 13:36	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		09/29/11 13:36	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		09/29/11 13:36	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

Sample: MW-20 **Lab ID: 3054316005** Collected: 09/21/11 11:10 Received: 09/22/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/29/11 14:00	67-64-1	
Benzene	ND	ug/L	1.0	1		09/29/11 14:00	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/29/11 14:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/29/11 14:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/29/11 14:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/11 14:00	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 14:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/29/11 14:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/29/11 14:00	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/29/11 14:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/29/11 14:00	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/29/11 14:00	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/29/11 14:00	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 14:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 14:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 14:00	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/29/11 14:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/29/11 14:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/29/11 14:00	75-35-4	
cis-1,2-Dichloroethene	**403**	ug/L	50.0	10		10/03/11 14:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/29/11 14:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/29/11 14:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 14:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 14:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/29/11 14:00	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/29/11 14:00	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/11 14:00	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/29/11 14:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/11 14:00	108-10-1	
Styrene	ND	ug/L	5.0	1		09/29/11 14:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/29/11 14:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/29/11 14:00	127-18-4	
Toluene	ND	ug/L	5.0	1		09/29/11 14:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/29/11 14:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/29/11 14:00	79-00-5	
Trichloroethene	**79.0**	ug/L	5.0	1		09/29/11 14:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/29/11 14:00	75-69-4	
Vinyl chloride	**5.1**	ug/L	1.0	1		09/29/11 14:00	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/29/11 14:00	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/29/11 14:00	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		09/29/11 14:00	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		09/29/11 14:00	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		09/29/11 14:00	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

Sample: MW-22D **Lab ID: 3054316006** Collected: 09/21/11 11:50 Received: 09/22/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/29/11 14:25	67-64-1	
Benzene	**2.2**	ug/L	1.0	1		09/29/11 14:25	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/29/11 14:25	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/29/11 14:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/29/11 14:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/11 14:25	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 14:25	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/29/11 14:25	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/29/11 14:25	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/29/11 14:25	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/29/11 14:25	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/29/11 14:25	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/29/11 14:25	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 14:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 14:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 14:25	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/29/11 14:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/29/11 14:25	107-06-2	
1,1-Dichloroethene	**9.0**	ug/L	5.0	1		09/29/11 14:25	75-35-4	
cis-1,2-Dichloroethene	**1010**	ug/L	500	100		10/03/11 15:36	156-59-2	
trans-1,2-Dichloroethene	**8.7**	ug/L	5.0	1		09/29/11 14:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/29/11 14:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 14:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 14:25	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/29/11 14:25	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/29/11 14:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/11 14:25	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/29/11 14:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/11 14:25	108-10-1	
Styrene	ND	ug/L	5.0	1		09/29/11 14:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/29/11 14:25	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/29/11 14:25	127-18-4	
Toluene	ND	ug/L	5.0	1		09/29/11 14:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/29/11 14:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/29/11 14:25	79-00-5	
Trichloroethene	**4890**	ug/L	500	100		10/03/11 15:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/29/11 14:25	75-69-4	
Vinyl chloride	**24.3**	ug/L	1.0	1		09/29/11 14:25	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/29/11 14:25	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/29/11 14:25	95-47-6	
4-Bromofluorobenzene (S)	105	%	70-130	1		09/29/11 14:25	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		09/29/11 14:25	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		09/29/11 14:25	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

Sample: MW-21D **Lab ID: 3054316007** Collected: 09/21/11 12:30 Received: 09/22/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**65100**	ug/L	20000	2000		10/03/11 16:49	67-64-1	
Benzene	**73.8**	ug/L	1.0	1		09/29/11 14:49	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/29/11 14:49	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/29/11 14:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/29/11 14:49	74-83-9	
2-Butanone (MEK)	**582**	ug/L	10.0	1		09/29/11 14:49	78-93-3	E
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 14:49	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/29/11 14:49	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/29/11 14:49	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/29/11 14:49	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/29/11 14:49	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/29/11 14:49	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/29/11 14:49	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 14:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 14:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 14:49	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/29/11 14:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/29/11 14:49	107-06-2	
1,1-Dichloroethene	**593**	ug/L	5.0	1		09/29/11 14:49	75-35-4	E
cis-1,2-Dichloroethene	**185000**	ug/L	10000	2000		10/03/11 16:49	156-59-2	
trans-1,2-Dichloroethene	**3600**	ug/L	500	100		10/03/11 16:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/29/11 14:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 14:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 14:49	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/29/11 14:49	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/29/11 14:49	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/11 14:49	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/29/11 14:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/11 14:49	108-10-1	
Styrene	ND	ug/L	5.0	1		09/29/11 14:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/29/11 14:49	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/29/11 14:49	127-18-4	
Toluene	**26.6**	ug/L	5.0	1		09/29/11 14:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/29/11 14:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/29/11 14:49	79-00-5	
Trichloroethene	**30000**	ug/L	500	100		10/03/11 16:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/29/11 14:49	75-69-4	
Vinyl chloride	**36200**	ug/L	100	100		10/03/11 16:25	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/29/11 14:49	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/29/11 14:49	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		09/29/11 14:49	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		09/29/11 14:49	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		09/29/11 14:49	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

Sample: TB-01 **Lab ID: 3054316008** Collected: 09/21/11 00:01 Received: 09/22/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/29/11 11:58	67-64-1	
Benzene	ND	ug/L	1.0	1		09/29/11 11:58	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/29/11 11:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/29/11 11:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/29/11 11:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/11 11:58	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 11:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/29/11 11:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/29/11 11:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/29/11 11:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/29/11 11:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/29/11 11:58	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/29/11 11:58	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 11:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 11:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/29/11 11:58	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/29/11 11:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/29/11 11:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/29/11 11:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/29/11 11:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/29/11 11:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/29/11 11:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 11:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/29/11 11:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/29/11 11:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/29/11 11:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/11 11:58	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/29/11 11:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/11 11:58	108-10-1	
Styrene	ND	ug/L	5.0	1		09/29/11 11:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/29/11 11:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/29/11 11:58	127-18-4	
Toluene	ND	ug/L	5.0	1		09/29/11 11:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/29/11 11:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/29/11 11:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/29/11 11:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/29/11 11:58	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		09/29/11 11:58	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/29/11 11:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/29/11 11:58	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		09/29/11 11:58	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		09/29/11 11:58	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		09/29/11 11:58	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

QC Batch: MSV/10606 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3054316001, 3054316002, 3054316003, 3054316004, 3054316005, 3054316006, 3054316007, 3054316008

METHOD BLANK: 348839 Matrix: Water
Associated Lab Samples: 3054316001, 3054316002, 3054316003, 3054316004, 3054316005, 3054316006, 3054316007, 3054316008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	09/29/11 11:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/29/11 11:34	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/29/11 11:34	
1,1-Dichloroethane	ug/L	ND	5.0	09/29/11 11:34	
1,1-Dichloroethene	ug/L	ND	5.0	09/29/11 11:34	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/29/11 11:34	
1,2-Dichloroethane	ug/L	ND	5.0	09/29/11 11:34	
1,2-Dichloropropane	ug/L	ND	5.0	09/29/11 11:34	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/29/11 11:34	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/29/11 11:34	
2-Butanone (MEK)	ug/L	ND	10.0	09/29/11 11:34	
2-Hexanone	ug/L	ND	10.0	09/29/11 11:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	09/29/11 11:34	
Acetone	ug/L	ND	10.0	09/29/11 11:34	
Benzene	ug/L	ND	1.0	09/29/11 11:34	
Bromodichloromethane	ug/L	ND	5.0	09/29/11 11:34	
Bromoform	ug/L	ND	5.0	09/29/11 11:34	
Bromomethane	ug/L	ND	5.0	09/29/11 11:34	
Carbon disulfide	ug/L	ND	5.0	09/29/11 11:34	
Carbon tetrachloride	ug/L	ND	5.0	09/29/11 11:34	
Chlorobenzene	ug/L	ND	5.0	09/29/11 11:34	
Chloroethane	ug/L	ND	5.0	09/29/11 11:34	
Chloroform	ug/L	ND	5.0	09/29/11 11:34	
Chloromethane	ug/L	ND	5.0	09/29/11 11:34	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/29/11 11:34	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/29/11 11:34	
Dibromochloromethane	ug/L	ND	5.0	09/29/11 11:34	
Ethylbenzene	ug/L	ND	5.0	09/29/11 11:34	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/29/11 11:34	
m&p-Xylene	ug/L	ND	5.0	09/29/11 11:34	
Methylene Chloride	ug/L	ND	5.0	09/29/11 11:34	
o-Xylene	ug/L	ND	5.0	09/29/11 11:34	
Styrene	ug/L	ND	5.0	09/29/11 11:34	
Tetrachloroethene	ug/L	ND	5.0	09/29/11 11:34	
Toluene	ug/L	ND	5.0	09/29/11 11:34	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/29/11 11:34	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/29/11 11:34	
Trichloroethene	ug/L	ND	5.0	09/29/11 11:34	
Trichlorofluoromethane	ug/L	ND	5.0	09/29/11 11:34	
Vinyl chloride	ug/L	ND	1.0	09/29/11 11:34	
1,2-Dichloroethane-d4 (S)	%	108	70-130	09/29/11 11:34	
4-Bromofluorobenzene (S)	%	100	70-130	09/29/11 11:34	
Toluene-d8 (S)	%	96	70-130	09/29/11 11:34	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

LABORATORY CONTROL SAMPLE: 348840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.3	86	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	15.5	77	64.6-121	
1,1,2-Trichloroethane	ug/L	20	15.8	79	75.6-120	
1,1-Dichloroethane	ug/L	20	17.0	85	68.5-122	
1,1-Dichloroethene	ug/L	20	15.8	79	57.1-120	
1,2-Dichlorobenzene	ug/L	20	17.9	89	69.6-120	
1,2-Dichloroethane	ug/L	20	17.9	89	60.5-133	
1,2-Dichloropropane	ug/L	20	15.4	77	71-120	
1,3-Dichlorobenzene	ug/L	20	17.8	89	68.4-121	
1,4-Dichlorobenzene	ug/L	20	17.7	89	68.5-123	
2-Butanone (MEK)	ug/L	20	18.0	90	55.7-138	
2-Hexanone	ug/L	20	18.1	91	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.1	80	64.5-121	
Acetone	ug/L	20	18.1	91	57.6-168	
Benzene	ug/L	20	16.0	80	69.8-120	
Bromodichloromethane	ug/L	20	15.6	78	66.5-120	
Bromoform	ug/L	20	14.1	70	61.1-120	
Bromomethane	ug/L	20	28.0	140	10.6-240	
Carbon disulfide	ug/L	20	16.2	81	60.2-122	
Carbon tetrachloride	ug/L	20	15.1	75	60.1-127	
Chlorobenzene	ug/L	20	16.3	82	72-120	
Chloroethane	ug/L	20	19.7	99	36.8-142	
Chloroform	ug/L	20	17.6	88	69-122	
Chloromethane	ug/L	20	19.7	99	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	16.7	84	74.3-120	
Dibromochloromethane	ug/L	20	15.3	76	66.1-120	
Ethylbenzene	ug/L	20	16.6	83	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	17.8	89	68.3-129	
m&p-Xylene	ug/L	40	35.6	89	70.4-130	
Methylene Chloride	ug/L	20	16.1	81	61.5-125	
o-Xylene	ug/L	20	17.5	88	70.6-127	
Styrene	ug/L	20	17.3	86	69.9-120	
Tetrachloroethene	ug/L	20	15.3	77	63.4-121	
Toluene	ug/L	20	16.5	82	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	16.2	81	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	14.8	74	71-120	
Trichloroethene	ug/L	20	15.0	75	65.9-120	
Trichlorofluoromethane	ug/L	20	20.9	104	44.8-137	
Vinyl chloride	ug/L	20	20.5	103	51-127	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			96	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 348841 348842

Parameter	Units	3054316001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	21.6	23.7	108	118	70-130	9	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	14.8	14.5	74	73	70-130	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	15.8	16.5	79	82	70-130	4	
1,1-Dichloroethane	ug/L	ND	20	20	21.3	20.8	107	104	70-130	3	
1,1-Dichloroethene	ug/L	ND	20	20	20.9	21.4	105	107	70-130	2	
1,2-Dichlorobenzene	ug/L	ND	20	20	16.6	17.3	83	87	70-130	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.7	21.7	103	108	70-130	5	
1,2-Dichloropropane	ug/L	ND	20	20	15.7	15.6	79	78	70-130	.4	
1,3-Dichlorobenzene	ug/L	ND	20	20	16.3	16.7	81	84	70-130	3	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.3	16.3	81	82	70-130	.3	
2-Butanone (MEK)	ug/L	ND	20	20	17.5	20.0	87	100	70-130	13	
2-Hexanone	ug/L	ND	20	20	18.8	16.4	94	82	70-130	14	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	16.9	15.1	85	76	70-130	11	
Acetone	ug/L	ND	20	20	23.5	27.3	77	96	70-130	15	
Benzene	ug/L	ND	20	20	17.7	17.0	88	85	70-130	4	
Bromodichloromethane	ug/L	ND	20	20	15.1	15.5	75	77	70-130	3	
Bromoform	ug/L	ND	20	20	13.0	15.2	65	76	70-130	16	M0
Bromomethane	ug/L	ND	20	20	27.8	27.8	139	139	70-130	.2	M0
Carbon disulfide	ug/L	ND	20	20	26.8	27.1	132	134	70-130	1	M0
Carbon tetrachloride	ug/L	ND	20	20	15.6	16.6	78	83	70-130	6	
Chlorobenzene	ug/L	ND	20	20	16.5	17.2	83	86	70-130	4	
Chloroethane	ug/L	ND	20	20	27.1	21.0	135	105	70-130	25	M0
Chloroform	ug/L	ND	20	20	21.1	22.6	105	113	70-130	7	
Chloromethane	ug/L	ND	20	20	25.6	21.3	128	106	70-130	18	
cis-1,2-Dichloroethene	ug/L	27.3	20	20	51.1	52.6	119	127	70-130	3	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.2	16.2	81	81	70-130	.08	
Dibromochloromethane	ug/L	ND	20	20	14.6	16.2	73	81	70-130	10	
Ethylbenzene	ug/L	ND	20	20	17.4	17.7	87	89	70-130	2	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	18.1	17.4	90	87	70-130	4	
m&p-Xylene	ug/L	ND	40	40	36.8	37.2	92	93	70-130	1	
Methylene Chloride	ug/L	ND	20	20	19.1	19.7	96	98	70-130	3	
o-Xylene	ug/L	ND	20	20	17.6	18.0	88	90	70-130	2	
Styrene	ug/L	ND	20	20	14.8	14.5	74	72	70-130	2	
Tetrachloroethene	ug/L	ND	20	20	16.0	16.5	80	82	70-130	3	
Toluene	ug/L	ND	20	20	17.6	17.5	88	87	70-130	.7	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.3	21.0	100	104	70-130	3	
trans-1,3-Dichloropropene	ug/L	ND	20	20	14.9	14.9	74	75	70-130	.2	
Trichloroethene	ug/L	8.3	20	20	23.6	23.7	77	77	70-130	.4	
Trichlorofluoromethane	ug/L	ND	20	20	31.6	26.9	158	135	70-130	16	M0
Vinyl chloride	ug/L	ND	20	20	29.9	23.8	148	118	70-130	23	M0
1,2-Dichloroethane-d4 (S)	%						99	102	70-130		
4-Bromofluorobenzene (S)	%						99	99	70-130		
Toluene-d8 (S)	%						91	87	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope Jamestown
Pace Project No.: 3054316

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3054316001	**MW-6**	EPA 8260	MSV/10606		
3054316002	**MW-8**	EPA 8260	MSV/10606		
3054316003	**MW-7S**	EPA 8260	MSV/10606		
3054316004	**MW-7D**	EPA 8260	MSV/10606		
3054316005	**MW-20**	EPA 8260	MSV/10606		
3054316006	**MW-22D**	EPA 8260	MSV/10606		
3054316007	**MW-21D**	EPA 8260	MSV/10606		
3054316008	**TB-01**	EPA 8260	MSV/10606		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1492349

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 4 ~~501 HOLIDAY DR STE 300~~ PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4791
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DAWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568904
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41568904, 48000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: NY

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (30524316)
1	MW-6	WT	G			9.21.11	0910		3				X					Y	X		001
2	MW-8						0940		3				X						X		002
3	MW-7S						1015		3				X						X		003
4	MW-7D						1035		3				X						X		004
5	MW-20						1110		3				X						X		005
6	MW-22D						1150		3				X						X		006
7	MW-21D						1230		3				X						X		007
8	TB-01	WT	G			9.21.11	—		1												008
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
ANNUAL PMP SAMPLING	[signature] URS	9.21.11	~1400	[signature] FedEx	9.21.11	~1400				
				[signature] Pace	9/22	1000	3.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9.21.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS

Project # 30543116

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8607255 381142

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 3 5 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.7 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: WK 9/22

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed: RMC / Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rachel B Christner Date: 9/23/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 12, 2011

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

RE: Project: Essex-Hope
Pace Project No.: 3054997

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope
Pace Project No.: 3054997

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3054997

Sample: MW-19D **Lab ID: 3054997001** Collected: 10/03/11 14:25 Received: 10/04/11 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**2870**	ug/L	200	20		10/06/11 12:15	67-64-1	
Benzene	ND	ug/L	1.0	1		10/05/11 20:27	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/05/11 20:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/05/11 20:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/05/11 20:27	74-83-9	
2-Butanone (MEK)	**17.5**	ug/L	10.0	1		10/05/11 20:27	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/05/11 20:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/05/11 20:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/05/11 20:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/05/11 20:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/05/11 20:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/05/11 20:27	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/05/11 20:27	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/05/11 20:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/05/11 20:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/05/11 20:27	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/05/11 20:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/11 20:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/05/11 20:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/05/11 20:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/05/11 20:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/05/11 20:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/05/11 20:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/05/11 20:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/05/11 20:27	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/05/11 20:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/05/11 20:27	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		10/05/11 20:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/05/11 20:27	108-10-1	
Styrene	ND	ug/L	5.0	1		10/05/11 20:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/05/11 20:27	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/05/11 20:27	127-18-4	
Toluene	ND	ug/L	5.0	1		10/05/11 20:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/05/11 20:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/05/11 20:27	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/05/11 20:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/05/11 20:27	75-69-4	
Vinyl chloride	**130**	ug/L	1.0	1		10/05/11 20:27	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/05/11 20:27	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/05/11 20:27	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		10/05/11 20:27	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/05/11 20:27	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		10/05/11 20:27	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3054997

QC Batch: MSV/10670 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3054997001

METHOD BLANK: 350919 Matrix: Water
Associated Lab Samples: 3054997001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/05/11 11:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/05/11 11:28	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/05/11 11:28	
1,1-Dichloroethane	ug/L	ND	5.0	10/05/11 11:28	
1,1-Dichloroethene	ug/L	ND	5.0	10/05/11 11:28	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/05/11 11:28	
1,2-Dichloroethane	ug/L	ND	5.0	10/05/11 11:28	
1,2-Dichloropropane	ug/L	ND	5.0	10/05/11 11:28	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/05/11 11:28	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/05/11 11:28	
2-Butanone (MEK)	ug/L	ND	10.0	10/05/11 11:28	
2-Hexanone	ug/L	ND	10.0	10/05/11 11:28	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/05/11 11:28	
Acetone	ug/L	ND	10.0	10/05/11 11:28	
Benzene	ug/L	ND	1.0	10/05/11 11:28	
Bromodichloromethane	ug/L	ND	5.0	10/05/11 11:28	
Bromoform	ug/L	ND	5.0	10/05/11 11:28	
Bromomethane	ug/L	ND	5.0	10/05/11 11:28	
Carbon disulfide	ug/L	ND	5.0	10/05/11 11:28	
Carbon tetrachloride	ug/L	ND	5.0	10/05/11 11:28	
Chlorobenzene	ug/L	ND	5.0	10/05/11 11:28	
Chloroethane	ug/L	ND	5.0	10/05/11 11:28	
Chloroform	ug/L	ND	5.0	10/05/11 11:28	
Chloromethane	ug/L	ND	5.0	10/05/11 11:28	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/05/11 11:28	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/05/11 11:28	
Dibromochloromethane	ug/L	ND	5.0	10/05/11 11:28	
Ethylbenzene	ug/L	ND	5.0	10/05/11 11:28	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/05/11 11:28	
m&p-Xylene	ug/L	ND	5.0	10/05/11 11:28	
Methylene Chloride	ug/L	ND	5.0	10/05/11 11:28	
o-Xylene	ug/L	ND	5.0	10/05/11 11:28	
Styrene	ug/L	ND	5.0	10/05/11 11:28	
Tetrachloroethene	ug/L	ND	5.0	10/05/11 11:28	
Toluene	ug/L	ND	5.0	10/05/11 11:28	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/05/11 11:28	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/05/11 11:28	
Trichloroethene	ug/L	ND	5.0	10/05/11 11:28	
Trichlorofluoromethane	ug/L	ND	5.0	10/05/11 11:28	
Vinyl chloride	ug/L	ND	1.0	10/05/11 11:28	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/05/11 11:28	
4-Bromofluorobenzene (S)	%	100	70-130	10/05/11 11:28	
Toluene-d8 (S)	%	97	70-130	10/05/11 11:28	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3054997

LABORATORY CONTROL SAMPLE: 350920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.5	108	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	20.0	100	64.6-121	
1,1,2-Trichloroethane	ug/L	20	18.9	94	75.6-120	
1,1-Dichloroethane	ug/L	20	19.6	98	68.5-122	
1,1-Dichloroethene	ug/L	20	18.8	94	57.1-120	
1,2-Dichlorobenzene	ug/L	20	20.5	102	69.6-120	
1,2-Dichloroethane	ug/L	20	19.9	99	60.5-133	
1,2-Dichloropropane	ug/L	20	18.9	95	71-120	
1,3-Dichlorobenzene	ug/L	20	20.3	102	68.4-121	
1,4-Dichlorobenzene	ug/L	20	21.4	107	68.5-123	
2-Butanone (MEK)	ug/L	20	19.8	99	55.7-138	
2-Hexanone	ug/L	20	19.2	96	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.8	94	64.5-121	
Acetone	ug/L	20	23.0	115	57.6-168	
Benzene	ug/L	20	20.2	101	69.8-120	
Bromodichloromethane	ug/L	20	18.8	94	66.5-120	
Bromoform	ug/L	20	18.2	91	61.1-120	
Bromomethane	ug/L	20	20.8	104	10.6-240	
Carbon disulfide	ug/L	20	23.8	119	60.2-122	
Carbon tetrachloride	ug/L	20	19.4	97	60.1-127	
Chlorobenzene	ug/L	20	19.6	98	72-120	
Chloroethane	ug/L	20	13.7	68	36.8-142	
Chloroform	ug/L	20	20.5	102	69-122	
Chloromethane	ug/L	20	16.4	82	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	20.3	102	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	74.3-120	
Dibromochloromethane	ug/L	20	18.7	93	66.1-120	
Ethylbenzene	ug/L	20	19.8	99	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	21.6	108	68.3-129	
m&p-Xylene	ug/L	40	40.7	102	70.4-130	
Methylene Chloride	ug/L	20	18.5	92	61.5-125	
o-Xylene	ug/L	20	19.7	99	70.6-127	
Styrene	ug/L	20	19.6	98	69.9-120	
Tetrachloroethene	ug/L	20	19.8	99	63.4-121	
Toluene	ug/L	20	20.1	100	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	19.7	98	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	18.8	94	71-120	
Trichloroethene	ug/L	20	19.5	98	65.9-120	
Trichlorofluoromethane	ug/L	20	19.7	99	44.8-137	
Vinyl chloride	ug/L	20	18.4	92	51-127	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			95	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3054997

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 350921 350922

Parameter	Units	3054903003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	20.4	22.2	102	111	70-130	9	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.9	20.3	104	101	70-130	3	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.9	20.2	99	101	70-130	2	
1,1-Dichloroethane	ug/L	ND	20	20	19.3	20.8	97	104	70-130	7	
1,1-Dichloroethene	ug/L	ND	20	20	18.7	19.7	94	99	70-130	5	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.9	20.8	104	104	70-130	.4	
1,2-Dichloroethane	ug/L	ND	20	20	19.6	20.6	98	103	70-130	5	
1,2-Dichloropropane	ug/L	ND	20	20	18.6	20.4	93	102	70-130	9	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.0	20.7	100	103	70-130	3	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.2	20.8	106	104	70-130	2	
2-Butanone (MEK)	ug/L	ND	20	20	20.3	17.7	102	88	70-130	14	
2-Hexanone	ug/L	ND	20	20	18.8	17.8	94	89	70-130	5	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	19.6	17.8	98	89	70-130	9	
Acetone	ug/L	ND	20	20	22.5	21.3	113	107	70-130	5	
Benzene	ug/L	ND	20	20	19.7	21.6	98	108	70-130	9	
Bromodichloromethane	ug/L	ND	20	20	17.8	19.5	89	98	70-130	9	
Bromoform	ug/L	ND	20	20	16.6	17.2	83	86	70-130	4	
Bromomethane	ug/L	ND	20	20	10.5	11.2	53	56	70-130	6	M0
Carbon disulfide	ug/L	ND	20	20	22.3	22.5	112	112	70-130	.6	
Carbon tetrachloride	ug/L	ND	20	20	18.3	20.3	92	102	70-130	10	
Chlorobenzene	ug/L	ND	20	20	19.3	21.0	97	105	70-130	8	
Chloroethane	ug/L	ND	20	20	13.8	13.5	69	68	70-130	2	M0
Chloroform	ug/L	ND	20	20	19.9	21.2	99	106	70-130	6	
Chloromethane	ug/L	ND	20	20	16.0	16.3	80	82	70-130	2	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.8	20.5	99	102	70-130	4	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.4	19.5	92	97	70-130	5	
Dibromochloromethane	ug/L	ND	20	20	17.3	18.1	87	90	70-130	4	
Ethylbenzene	ug/L	ND	20	20	19.4	20.8	97	104	70-130	7	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.3	22.2	107	111	70-130	4	
m&p-Xylene	ug/L	ND	40	40	40.0	43.9	100	110	70-130	9	
Methylene Chloride	ug/L	ND	20	20	17.8	18.8	89	94	70-130	5	
o-Xylene	ug/L	ND	20	20	19.5	20.8	97	104	70-130	6	
Styrene	ug/L	ND	20	20	18.6	20.6	93	103	70-130	10	
Tetrachloroethene	ug/L	ND	20	20	19.8	21.8	99	109	70-130	10	
Toluene	ug/L	ND	20	20	19.9	21.7	100	109	70-130	9	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.0	20.7	95	103	70-130	8	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.1	19.7	91	99	70-130	8	
Trichloroethene	ug/L	ND	20	20	19.0	20.0	95	100	70-130	5	
Trichlorofluoromethane	ug/L	ND	20	20	23.2	21.8	116	109	70-130	6	
Vinyl chloride	ug/L	ND	20	20	19.6	19.5	98	97	70-130	.8	
1,2-Dichloroethane-d4 (S)	%						104	102	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						96	98	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope
Pace Project No.: 3054997

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope
Pace Project No.: 3054997

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3054997001	**MW-19D**	EPA 8260	MSV/10670		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1492351

Section A
Required Client Information:

Company:	URS CORP.
Address:	FOSTER PLAZA 4, STE 300, 501 HOLIDAY DRIVE, PITTSBURGH, PA 15220
Email To:	
Phone: 412-503-4700	Fax: 412-503-4701
Requested Due Date/TAT:	STANDARD

Section B
Required Project Information:

Report To:	MARK DOWIAK
Copy To:	VALERIE SIDETO
Purchase Order No.:	41568904
Project Name:	ESSEX/HOPE JAMESTOWN
Project Number:	41568904.40000

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: NY

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 3054997

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				GRAB																
1	MW-19D	WT	G	10.3.11	1425	—	—		6				X					X		001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2011 ANNUAL PMP	Valerie Sideto / URS	10.3.11	~1630	Fed Ex Air	10.3.11	~1630	5.3			
SAMPLING				[illegible] Pace	10/4/11	1145	5.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIDETO

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10.3.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

JMS

Pace Analytical

Client Name: URS Corp Project # 30549997

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8672 5535 1186

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used (3) 5 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 5.3 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: NF 10/4/11

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15. 10/4/11
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 10/4/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

APPENDIX B-3

2011 MONTHLY POTW INFLUENT/EFFLUENT SAMPLE DATA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 01, 2011

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

RE: Project: Essex-Hope
Pace Project No.: 3040637

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on January 28, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

This report was reissued on August 1, 2011 to include Cumene results.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope
Pace Project No.: 3040637

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Essex-Hope
Pace Project No.: 3040637

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3040637001	**PRE-CARB**	EPA 8260	JAS	43	PASI-PA
3040637002	**PRIMARY-EFF**	EPA 8260	JAS	43	PASI-PA
3040637003	**POST-CARB**	EPA 8260	JAS	43	PASI-PA
3040637004	**TB-01**	EPA 8260	JAS	40	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3040637

Sample: PRE-CARB **Lab ID: 3040637001** Collected: 01/27/11 09:30 Received: 01/28/11 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**1960**	ug/L	400	40		02/03/11 15:26	67-64-1	
Benzene	**12.5**	ug/L	1.0	1		02/02/11 19:41	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/02/11 19:41	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/02/11 19:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/11 19:41	74-83-9	
2-Butanone (MEK)	**11.3**	ug/L	10.0	1		02/02/11 19:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		02/02/11 19:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/02/11 19:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/02/11 19:41	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/02/11 19:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/02/11 19:41	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/02/11 19:41	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/02/11 19:41	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 19:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 19:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 19:41	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/02/11 19:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/02/11 19:41	107-06-2	
1,1-Dichloroethene	**19.7**	ug/L	5.0	1		02/02/11 19:41	75-35-4	
cis-1,2-Dichloroethene	**6040**	ug/L	200	40		02/03/11 15:26	156-59-2	
trans-1,2-Dichloroethene	**98.9**	ug/L	5.0	1		02/02/11 19:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/02/11 19:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/11 19:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/11 19:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/02/11 19:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/02/11 19:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/02/11 19:41	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		02/02/11 19:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/02/11 19:41	108-10-1	
Styrene	ND	ug/L	5.0	1		02/02/11 19:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/02/11 19:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/02/11 19:41	127-18-4	
Toluene	ND	ug/L	5.0	1		02/02/11 19:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/02/11 19:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/02/11 19:41	79-00-5	
Trichloroethene	**1530**	ug/L	200	40		02/03/11 15:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/02/11 19:41	75-69-4	
Vinyl chloride	**700**	ug/L	40.0	40		02/03/11 15:26	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		02/02/11 19:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/02/11 19:41	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		02/02/11 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		02/02/11 19:41	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		02/02/11 19:41	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3040637

Sample: PRIMARY-EFF **Lab ID: 3040637002** Collected: 01/27/11 09:35 Received: 01/28/11 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**588**	ug/L	100	10		02/03/11 15:52	67-64-1	
Benzene	ND	ug/L	1.0	1		02/02/11 20:07	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/02/11 20:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/02/11 20:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/11 20:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/02/11 20:07	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		02/02/11 20:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/02/11 20:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/02/11 20:07	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/02/11 20:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/02/11 20:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/02/11 20:07	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/02/11 20:07	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 20:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 20:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 20:07	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/02/11 20:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/02/11 20:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/02/11 20:07	75-35-4	
cis-1,2-Dichloroethene	**382**	ug/L	5.0	1		02/02/11 20:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/02/11 20:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/02/11 20:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/11 20:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/11 20:07	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/02/11 20:07	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/02/11 20:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/02/11 20:07	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		02/02/11 20:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/02/11 20:07	108-10-1	
Styrene	ND	ug/L	5.0	1		02/02/11 20:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/02/11 20:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/02/11 20:07	127-18-4	
Toluene	ND	ug/L	5.0	1		02/02/11 20:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/02/11 20:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/02/11 20:07	79-00-5	
Trichloroethene	**30.0**	ug/L	5.0	1		02/02/11 20:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/02/11 20:07	75-69-4	
Vinyl chloride	**369**	ug/L	1.0	1		02/02/11 20:07	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		02/02/11 20:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/02/11 20:07	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		02/02/11 20:07	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		02/02/11 20:07	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		02/02/11 20:07	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3040637

Sample: POST-CARB **Lab ID: 3040637003** Collected: 01/27/11 11:10 Received: 01/28/11 11:45 Matrix: Water

Comments: • This sample was composited prior to 8260 VOA analysis.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/02/11 20:33	67-64-1	
Benzene	ND	ug/L	1.0	1		02/02/11 20:33	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/02/11 20:33	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/02/11 20:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/11 20:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/02/11 20:33	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		02/02/11 20:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/02/11 20:33	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/02/11 20:33	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/02/11 20:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/02/11 20:33	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/02/11 20:33	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/02/11 20:33	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 20:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 20:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 20:33	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/02/11 20:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/02/11 20:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/02/11 20:33	75-35-4	
cis-1,2-Dichloroethene	**22.6**	ug/L	5.0	1		02/02/11 20:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/02/11 20:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/02/11 20:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/11 20:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/11 20:33	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/02/11 20:33	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/02/11 20:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/02/11 20:33	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		02/02/11 20:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/02/11 20:33	108-10-1	
Styrene	ND	ug/L	5.0	1		02/02/11 20:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/02/11 20:33	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/02/11 20:33	127-18-4	
Toluene	ND	ug/L	5.0	1		02/02/11 20:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/02/11 20:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/02/11 20:33	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/02/11 20:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/02/11 20:33	75-69-4	
Vinyl chloride	**5.7**	ug/L	1.0	1		02/02/11 20:33	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		02/02/11 20:33	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/02/11 20:33	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		02/02/11 20:33	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		02/02/11 20:33	17060-07-0	
Toluene-d8 (S)	89	%	70-130	1		02/02/11 20:33	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3040637

Sample: TB-01 **Lab ID: 3040637004** Collected: 01/27/11 00:01 Received: 01/28/11 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/02/11 20:59	67-64-1	
Benzene	ND	ug/L	1.0	1		02/02/11 20:59	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/02/11 20:59	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/02/11 20:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/11 20:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/02/11 20:59	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		02/02/11 20:59	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/02/11 20:59	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/02/11 20:59	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/02/11 20:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/02/11 20:59	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/02/11 20:59	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/02/11 20:59	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 20:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 20:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 20:59	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/02/11 20:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/02/11 20:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/02/11 20:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/02/11 20:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/02/11 20:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/02/11 20:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/11 20:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/11 20:59	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/02/11 20:59	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/02/11 20:59	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/02/11 20:59	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		02/02/11 20:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/02/11 20:59	108-10-1	
Styrene	ND	ug/L	5.0	1		02/02/11 20:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/02/11 20:59	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/02/11 20:59	127-18-4	
Toluene	ND	ug/L	5.0	1		02/02/11 20:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/02/11 20:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/02/11 20:59	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/02/11 20:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/02/11 20:59	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/02/11 20:59	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		02/02/11 20:59	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/02/11 20:59	95-47-6	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3040637

QC Batch: MSV/8399 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3040637001, 3040637002, 3040637003, 3040637004

METHOD BLANK: 263569 Matrix: Water
Associated Lab Samples: 3040637001, 3040637002, 3040637003, 3040637004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/02/11 13:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/02/11 13:09	
1,1,2-Trichloroethane	ug/L	ND	5.0	02/02/11 13:09	
1,1-Dichloroethane	ug/L	ND	5.0	02/02/11 13:09	
1,1-Dichloroethene	ug/L	ND	5.0	02/02/11 13:09	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/02/11 13:09	
1,2-Dichloroethane	ug/L	ND	5.0	02/02/11 13:09	
1,2-Dichloropropane	ug/L	ND	5.0	02/02/11 13:09	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/02/11 13:09	
1,4-Dichlorobenzene	ug/L	ND	5.0	02/02/11 13:09	
2-Butanone (MEK)	ug/L	ND	10.0	02/02/11 13:09	
2-Hexanone	ug/L	ND	10.0	02/02/11 13:09	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/02/11 13:09	
Acetone	ug/L	ND	10.0	02/02/11 13:09	
Benzene	ug/L	ND	1.0	02/02/11 13:09	
Bromodichloromethane	ug/L	ND	5.0	02/02/11 13:09	
Bromoform	ug/L	ND	5.0	02/02/11 13:09	
Bromomethane	ug/L	ND	5.0	02/02/11 13:09	
Carbon disulfide	ug/L	ND	5.0	02/02/11 13:09	
Carbon tetrachloride	ug/L	ND	5.0	02/02/11 13:09	
Chlorobenzene	ug/L	ND	5.0	02/02/11 13:09	
Chloroethane	ug/L	ND	5.0	02/02/11 13:09	
Chloroform	ug/L	ND	5.0	02/02/11 13:09	
Chloromethane	ug/L	ND	5.0	02/02/11 13:09	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/02/11 13:09	
cis-1,3-Dichloropropene	ug/L	ND	5.0	02/02/11 13:09	
Dibromochloromethane	ug/L	ND	5.0	02/02/11 13:09	
Ethylbenzene	ug/L	ND	5.0	02/02/11 13:09	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/02/11 13:09	
m&p-Xylene	ug/L	ND	5.0	02/02/11 13:09	
Methylene Chloride	ug/L	ND	5.0	02/02/11 13:09	
o-Xylene	ug/L	ND	5.0	02/02/11 13:09	
Styrene	ug/L	ND	5.0	02/02/11 13:09	
Tetrachloroethene	ug/L	ND	5.0	02/02/11 13:09	
Toluene	ug/L	ND	5.0	02/02/11 13:09	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/02/11 13:09	
trans-1,3-Dichloropropene	ug/L	ND	5.0	02/02/11 13:09	
Trichloroethene	ug/L	ND	5.0	02/02/11 13:09	
Trichlorofluoromethane	ug/L	ND	5.0	02/02/11 13:09	
Vinyl chloride	ug/L	ND	1.0	02/02/11 13:09	
1,2-Dichloroethane-d4 (S)	%	101	70-130	02/02/11 13:09	
4-Bromofluorobenzene (S)	%	98	70-130	02/02/11 13:09	
Toluene-d8 (S)	%	93	70-130	02/02/11 13:09	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3040637

LABORATORY CONTROL SAMPLE: 263570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.0	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	98	70-130	
1,1,2-Trichloroethane	ug/L	20	18.8	94	70-130	
1,1-Dichloroethane	ug/L	20	18.9	95	70-130	
1,1-Dichloroethene	ug/L	20	17.4	87	70-130	
1,2-Dichlorobenzene	ug/L	20	21.1	105	70-130	
1,2-Dichloroethane	ug/L	20	20.0	100	70-130	
1,2-Dichloropropane	ug/L	20	17.8	89	70-130	
1,3-Dichlorobenzene	ug/L	20	20.7	104	70-130	
1,4-Dichlorobenzene	ug/L	20	21.7	108	70-130	
2-Butanone (MEK)	ug/L	20	16.3	81	70-130	
2-Hexanone	ug/L	20	17.4	87	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.0	80	70-130	
Acetone	ug/L	20	16.2	81	70-130	
Benzene	ug/L	20	18.7	93	70-130	
Bromodichloromethane	ug/L	20	16.8	84	70-130	
Bromoform	ug/L	20	14.6	73	70-130	
Bromomethane	ug/L	20	28.9	145	70-130	L1
Carbon disulfide	ug/L	20	14.2	71	70-130	
Carbon tetrachloride	ug/L	20	17.2	86	70-130	
Chlorobenzene	ug/L	20	20.0	100	70-130	
Chloroethane	ug/L	20	16.5	82	70-130	
Chloroform	ug/L	20	19.9	100	70-130	
Chloromethane	ug/L	20	14.6	73	70-130	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.5	92	70-130	
Dibromochloromethane	ug/L	20	15.6	78	70-130	
Ethylbenzene	ug/L	20	19.6	98	70-130	
Isopropylbenzene (Cumene)	ug/L	20	21.2	106	70-130	
m&p-Xylene	ug/L	40	41.1	103	70-130	
Methylene Chloride	ug/L	20	17.8	89	70-130	
o-Xylene	ug/L	20	19.3	96	70-130	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	20.1	100	70-130	
Toluene	ug/L	20	19.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.1	91	70-130	
Trichloroethene	ug/L	20	19.7	99	70-130	
Trichlorofluoromethane	ug/L	20	20.6	103	70-130	
Vinyl chloride	ug/L	20	15.4	77	70-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			93	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3040637

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 263598 263599

Parameter	Units	9286689011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.5	19.3	97	96	70-130	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.9	18.6	90	93	70-130	4	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.6	18.7	93	94	70-130	.7	
1,1-Dichloroethane	ug/L	ND	20	20	18.9	19.3	95	96	70-130	2	
1,1-Dichloroethene	ug/L	ND	20	20	17.6	17.5	88	88	70-130	.1	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.7	19.1	93	95	70-130	2	
1,2-Dichloroethane	ug/L	ND	20	20	19.4	18.7	97	93	70-130	4	
1,2-Dichloropropane	ug/L	ND	20	20	17.8	18.3	89	92	70-130	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.8	18.7	94	93	70-130	.7	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.1	19.8	95	99	70-130	4	
2-Butanone (MEK)	ug/L	ND	20	20	15.7	16.5	79	83	70-130	5	
2-Hexanone	ug/L	ND	20	20	17.1	17.5	85	87	70-130	2	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	16.2	16.0	81	80	70-130	2	
Acetone	ug/L	ND	20	20	17.9	17.2	90	86	70-130	4	
Benzene	ug/L	ND	20	20	18.7	18.5	93	92	70-130	.8	
Bromodichloromethane	ug/L	ND	20	20	15.7	15.9	79	79	70-130	1	
Bromoform	ug/L	ND	20	20	12.3	12.2	62	61	70-130	1	M0
Bromomethane	ug/L	ND	20	20	13.0	15.3	65	77	70-130	16	M0
Carbon disulfide	ug/L	ND	20	20	14.2	13.5	71	68	70-130	5	M0
Carbon tetrachloride	ug/L	ND	20	20	15.4	15.7	77	79	70-130	2	
Chlorobenzene	ug/L	ND	20	20	19.6	19.6	98	98	70-130	.2	
Chloroethane	ug/L	ND	20	20	16.9	17.8	84	89	70-130	6	
Chloroform	ug/L	ND	20	20	19.3	19.4	97	97	70-130	.3	
Chloromethane	ug/L	ND	20	20	14.3	14.8	72	74	70-130	3	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.0	19.2	95	96	70-130	.9	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.0	16.6	85	83	70-130	3	
Dibromochloromethane	ug/L	ND	20	20	13.7	14.1	69	71	70-130	3	M0
Ethylbenzene	ug/L	ND	20	20	19.0	19.0	95	95	70-130	.3	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.6	20.4	98	102	70-130	4	
m&p-Xylene	ug/L	ND	40	40	39.2	39.6	98	99	70-130	1	
Methylene Chloride	ug/L	ND	20	20	17.6	17.3	88	87	70-130	1	
o-Xylene	ug/L	ND	20	20	18.6	18.9	93	95	70-130	2	
Styrene	ug/L	ND	20	20	16.6	17.1	83	85	70-130	3	
Tetrachloroethene	ug/L	ND	20	20	20.0	20.2	100	101	70-130	1	
Toluene	ug/L	ND	20	20	18.9	19.1	94	95	70-130	1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.9	18.3	90	92	70-130	2	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.1	15.5	80	78	70-130	3	
Trichloroethene	ug/L	ND	20	20	19.5	19.4	97	97	70-130	.3	
Trichlorofluoromethane	ug/L	ND	20	20	22.5	23.2	112	116	70-130	3	
Vinyl chloride	ug/L	ND	20	20	16.8	16.7	84	83	70-130	.8	
1,2-Dichloroethane-d4 (S)	%						94	99	70-130		
4-Bromofluorobenzene (S)	%						99	100	70-130		
Toluene-d8 (S)	%						90	90	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope
Pace Project No.: 3040637

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope
Pace Project No.: 3040637

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3040637001	**PRE-CARB**	EPA 8260	MSV/8399		
3040637002	**PRIMARY-EFF**	EPA 8260	MSV/8399		
3040637003	**POST-CARB**	EPA 8260	MSV/8399		
3040637004	**TB-01**	EPA 8260	MSV/8399		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1348124

Section A
Required Client Information:

Company:	URS CORP
Address:	501 HOLIDAY DR, FOSTER PLAZA 4, STE 300 PGH, PA 15220
Email To:	
Phone:	412-503-4700
Fax:	412-503-4701
Requested Due Date/TAT:	STANDARD

Section B
Required Project Information:

Report To:	MARK DOWIAK
Copy To:	VALERIE SIBETO
Purchase Order No.:	41568904
Project Name:	ESSEX/HOPE JAMESTOWN
Project Number:	41568904.10000

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: NY

Section D
Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 3040637
1	PRE-CARB	WT	G			1/27/11	0930		3				X					X		001
2	PRIMARY-EFF						0935		3				X					X		002
3	POST-CARB						0940		3				X					X		003
4	POST-CARB						1010		3				X					X		
5	POST-CARB						1040		3				X					X		
6	POST-CARB						1110		3				X					X		
7	TB-01					1/27/11	—		2				X					X		004
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4) POST-CARB	Valerie/URS	1.27.11	~1145	Fed Ex	1.27.11	~1145				
SAMPLES IN LAB AND				K Sylvester / Pace	1/28/11	1145	4.8	Y	N	Y
REPORT AS POST-CARB										
COMPOSITE.										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 1/27/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

SMS

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30406037

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 8672 5538 1495

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other _____

Thermometer Used (3) 5 Type of Ice: (Wet) Blue None [X] Samples on ice, cooling process has begun

Cooler Temperature 4.8 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RES 1/28/11

Comments:

Chain of Custody Present:	[X] Yes [ ] No [ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes [ ] No [ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes [ ] No [ ] N/A	3.
Sampler Name & Signature on COC:	[X] Yes [ ] No [ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes [ ] No [ ] N/A	5.
Short Hold Time Analysis (<72hr):	[ ] Yes [X] No [ ] N/A	6.
Rush Turn Around Time Requested:	[ ] Yes [X] No [ ] N/A	7.
Sufficient Volume:	[X] Yes [ ] No [ ] N/A	8.
Correct Containers Used:	[X] Yes [ ] No [ ] N/A	9.
-Pace Containers Used:	[X] Yes [ ] No [ ] N/A	
Containers Intact:	[X] Yes [ ] No [ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes [ ] No [X] N/A	11.
Sample Labels match COC:	[X] Yes [ ] No [ ] N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	[ ] Yes [ ] No [X] N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ] Yes [ ] No [X] N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	[X] Yes [ ] No	Initial when completed: RES Lot # of added preservative:
Samples checked for dechlorination:	[ ] Yes [ ] No [X] N/A	14.
Headspace in VOA Vials (>6mm):	[X] Yes [ ] No [ ] N/A	15. Trip Blank
Trip Blank Present:	[X] Yes [ ] No [ ] N/A	16.
Trip Blank Custody Seals Present	[X] Yes [ ] No [ ] N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 1/28/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 01, 2011

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

RE: Project: Essex-Hope Jamestown
Pace Project No.: 3042302

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on March 01, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

This report was reissued on August 1, 2011 to include Cumene results.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel Christner for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope Jamestown
Pace Project No.: 3042302

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Essex-Hope Jamestown
Pace Project No.: 3042302

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3042302001	**PRE-CARB**	EPA 8260	JAS	43	PASI-PA
3042302002	**PRIMARY EFF**	EPA 8260	JAS	43	PASI-PA
3042302003	**POST CARB**	EPA 8260	JAS	43	PASI-PA
3042302004	**TB-01**	EPA 8260	JAS	43	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3042302

Sample: PRE-CARB **Lab ID: 3042302001** Collected: 02/28/11 10:00 Received: 03/01/11 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**824**	ug/L	400	40		03/02/11 21:14	67-64-1	
Benzene	**7.1**	ug/L	1.0	1		03/02/11 20:48	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/02/11 20:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/02/11 20:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/02/11 20:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/02/11 20:48	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/02/11 20:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/02/11 20:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/02/11 20:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/02/11 20:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/02/11 20:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/02/11 20:48	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/02/11 20:48	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 20:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 20:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 20:48	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/02/11 20:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/02/11 20:48	107-06-2	
1,1-Dichloroethene	**14.2**	ug/L	5.0	1		03/02/11 20:48	75-35-4	
cis-1,2-Dichloroethene	**3850**	ug/L	200	40		03/02/11 21:14	156-59-2	
trans-1,2-Dichloroethene	**48.4**	ug/L	5.0	1		03/02/11 20:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/02/11 20:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/11 20:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/11 20:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/02/11 20:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/02/11 20:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/02/11 20:48	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		03/02/11 20:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/02/11 20:48	108-10-1	
Styrene	ND	ug/L	5.0	1		03/02/11 20:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/02/11 20:48	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/02/11 20:48	127-18-4	
Toluene	ND	ug/L	5.0	1		03/02/11 20:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/02/11 20:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/02/11 20:48	79-00-5	
Trichloroethene	**956**	ug/L	200	40		03/02/11 21:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/02/11 20:48	75-69-4	
Vinyl chloride	**438**	ug/L	40.0	40		03/02/11 21:14	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/02/11 20:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		03/02/11 20:48	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		03/02/11 20:48	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/02/11 20:48	17060-07-0	
Toluene-d8 (S)	90	%	70-130	1		03/02/11 20:48	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3042302

Sample: PRIMARY EFF **Lab ID: 3042302002** Collected: 02/28/11 10:05 Received: 03/01/11 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**58.9**	ug/L	10.0	1		03/02/11 21:40	67-64-1	
Benzene	ND	ug/L	1.0	1		03/02/11 21:40	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/02/11 21:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/02/11 21:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/02/11 21:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/02/11 21:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/02/11 21:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/02/11 21:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/02/11 21:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/02/11 21:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/02/11 21:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/02/11 21:40	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/02/11 21:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 21:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 21:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 21:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/02/11 21:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/02/11 21:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/02/11 21:40	75-35-4	
cis-1,2-Dichloroethene	**995**	ug/L	50.0	10		03/02/11 22:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/02/11 21:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/02/11 21:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/11 21:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/11 21:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/02/11 21:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/02/11 21:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/02/11 21:40	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		03/02/11 21:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/02/11 21:40	108-10-1	
Styrene	ND	ug/L	5.0	1		03/02/11 21:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/02/11 21:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/02/11 21:40	127-18-4	
Toluene	ND	ug/L	5.0	1		03/02/11 21:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/02/11 21:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/02/11 21:40	79-00-5	
Trichloroethene	**55.7**	ug/L	5.0	1		03/02/11 21:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/02/11 21:40	75-69-4	
Vinyl chloride	**662**	ug/L	10.0	10		03/02/11 22:07	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/02/11 21:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		03/02/11 21:40	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/02/11 21:40	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/02/11 21:40	17060-07-0	
Toluene-d8 (S)	89	%	70-130	1		03/02/11 21:40	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3042302

Sample: POST CARB **Lab ID: 3042302003** Collected: 02/28/11 10:10 Received: 03/01/11 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**24.5**	ug/L	10.0	1		03/02/11 22:33	67-64-1	
Benzene	ND	ug/L	1.0	1		03/02/11 22:33	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/02/11 22:33	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/02/11 22:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/02/11 22:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/02/11 22:33	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/02/11 22:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/02/11 22:33	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/02/11 22:33	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/02/11 22:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/02/11 22:33	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/02/11 22:33	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/02/11 22:33	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 22:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 22:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 22:33	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/02/11 22:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/02/11 22:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/02/11 22:33	75-35-4	
cis-1,2-Dichloroethene	**19.2**	ug/L	5.0	1		03/02/11 22:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/02/11 22:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/02/11 22:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/11 22:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/11 22:33	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/02/11 22:33	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/02/11 22:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/02/11 22:33	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		03/02/11 22:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/02/11 22:33	108-10-1	
Styrene	ND	ug/L	5.0	1		03/02/11 22:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/02/11 22:33	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/02/11 22:33	127-18-4	
Toluene	ND	ug/L	5.0	1		03/02/11 22:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/02/11 22:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/02/11 22:33	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/02/11 22:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/02/11 22:33	75-69-4	
Vinyl chloride	**7.4**	ug/L	1.0	1		03/02/11 22:33	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/02/11 22:33	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		03/02/11 22:33	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/02/11 22:33	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/02/11 22:33	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		03/02/11 22:33	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3042302

Sample: TB-01 **Lab ID: 3042302004** Collected: 02/28/11 00:01 Received: 03/01/11 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/02/11 22:59	67-64-1	
Benzene	ND	ug/L	1.0	1		03/02/11 22:59	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/02/11 22:59	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/02/11 22:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/02/11 22:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/02/11 22:59	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/02/11 22:59	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/02/11 22:59	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/02/11 22:59	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/02/11 22:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/02/11 22:59	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/02/11 22:59	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/02/11 22:59	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 22:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 22:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 22:59	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/02/11 22:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/02/11 22:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/02/11 22:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/02/11 22:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/02/11 22:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/02/11 22:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/11 22:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/11 22:59	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/02/11 22:59	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/02/11 22:59	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/02/11 22:59	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		03/02/11 22:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/02/11 22:59	108-10-1	
Styrene	ND	ug/L	5.0	1		03/02/11 22:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/02/11 22:59	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/02/11 22:59	127-18-4	
Toluene	ND	ug/L	5.0	1		03/02/11 22:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/02/11 22:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/02/11 22:59	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/02/11 22:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/02/11 22:59	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		03/02/11 22:59	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/02/11 22:59	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		03/02/11 22:59	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/02/11 22:59	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/02/11 22:59	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		03/02/11 22:59	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3042302

QC Batch: MSV/8627 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3042302001, 3042302002, 3042302003, 3042302004

METHOD BLANK: 272471 Matrix: Water
Associated Lab Samples: 3042302001, 3042302002, 3042302003, 3042302004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/02/11 14:43	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/02/11 14:43	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/02/11 14:43	
1,1-Dichloroethane	ug/L	ND	5.0	03/02/11 14:43	
1,1-Dichloroethene	ug/L	ND	5.0	03/02/11 14:43	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/02/11 14:43	
1,2-Dichloroethane	ug/L	ND	5.0	03/02/11 14:43	
1,2-Dichloropropane	ug/L	ND	5.0	03/02/11 14:43	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/02/11 14:43	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/02/11 14:43	
2-Butanone (MEK)	ug/L	ND	10.0	03/02/11 14:43	
2-Hexanone	ug/L	ND	10.0	03/02/11 14:43	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/02/11 14:43	
Acetone	ug/L	ND	10.0	03/02/11 14:43	
Benzene	ug/L	ND	1.0	03/02/11 14:43	
Bromodichloromethane	ug/L	ND	5.0	03/02/11 14:43	
Bromoform	ug/L	ND	5.0	03/02/11 14:43	
Bromomethane	ug/L	ND	5.0	03/02/11 14:43	
Carbon disulfide	ug/L	ND	5.0	03/02/11 14:43	
Carbon tetrachloride	ug/L	ND	5.0	03/02/11 14:43	
Chlorobenzene	ug/L	ND	5.0	03/02/11 14:43	
Chloroethane	ug/L	ND	5.0	03/02/11 14:43	
Chloroform	ug/L	ND	5.0	03/02/11 14:43	
Chloromethane	ug/L	ND	5.0	03/02/11 14:43	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/02/11 14:43	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/02/11 14:43	
Dibromochloromethane	ug/L	ND	5.0	03/02/11 14:43	
Ethylbenzene	ug/L	ND	5.0	03/02/11 14:43	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/02/11 14:43	
m&p-Xylene	ug/L	ND	5.0	03/02/11 14:43	
Methylene Chloride	ug/L	ND	5.0	03/02/11 14:43	
o-Xylene	ug/L	ND	5.0	03/02/11 14:43	
Styrene	ug/L	ND	5.0	03/02/11 14:43	
Tetrachloroethene	ug/L	ND	5.0	03/02/11 14:43	
Toluene	ug/L	ND	5.0	03/02/11 14:43	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/02/11 14:43	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/02/11 14:43	
Trichloroethene	ug/L	ND	5.0	03/02/11 14:43	
Trichlorofluoromethane	ug/L	ND	5.0	03/02/11 14:43	
Vinyl chloride	ug/L	ND	1.0	03/02/11 14:43	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/02/11 14:43	
4-Bromofluorobenzene (S)	%	102	70-130	03/02/11 14:43	
Toluene-d8 (S)	%	91	70-130	03/02/11 14:43	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3042302

LABORATORY CONTROL SAMPLE: 272472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.8	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	88	70-130	
1,1,2-Trichloroethane	ug/L	20	17.0	85	70-130	
1,1-Dichloroethane	ug/L	20	19.6	98	70-130	
1,1-Dichloroethene	ug/L	20	18.3	91	70-130	
1,2-Dichlorobenzene	ug/L	20	18.3	92	70-130	
1,2-Dichloroethane	ug/L	20	19.9	99	70-130	
1,2-Dichloropropane	ug/L	20	16.7	84	70-130	
1,3-Dichlorobenzene	ug/L	20	18.2	91	70-130	
1,4-Dichlorobenzene	ug/L	20	18.9	94	70-130	
2-Butanone (MEK)	ug/L	20	17.0	85	70-130	
2-Hexanone	ug/L	20	17.2	86	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.9	84	70-130	
Acetone	ug/L	20	14.3	72	70-130	
Benzene	ug/L	20	17.1	85	70-130	
Bromodichloromethane	ug/L	20	16.2	81	70-130	
Bromoform	ug/L	20	16.0	80	70-130	
Bromomethane	ug/L	20	26.5	133	70-130	L3
Carbon disulfide	ug/L	20	21.2	106	70-130	
Carbon tetrachloride	ug/L	20	20.8	104	70-130	
Chlorobenzene	ug/L	20	17.2	86	70-130	
Chloroethane	ug/L	20	19.1	95	70-130	
Chloroform	ug/L	20	20.3	102	70-130	
Chloromethane	ug/L	20	17.6	88	70-130	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.2	86	70-130	
Dibromochloromethane	ug/L	20	16.0	80	70-130	
Ethylbenzene	ug/L	20	18.0	90	70-130	
Isopropylbenzene (Cumene)	ug/L	20	18.9	95	70-130	
m&p-Xylene	ug/L	40	36.2	90	70-130	
Methylene Chloride	ug/L	20	18.0	90	70-130	
o-Xylene	ug/L	20	17.7	89	70-130	
Styrene	ug/L	20	17.8	89	70-130	
Tetrachloroethene	ug/L	20	18.3	92	70-130	
Toluene	ug/L	20	17.6	88	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.7	94	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.1	85	70-130	
Trichloroethene	ug/L	20	16.7	84	70-130	
Trichlorofluoromethane	ug/L	20	24.7	123	70-130	
Vinyl chloride	ug/L	20	20.7	103	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			88	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3042302

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3042145006 3042145007

Parameter	Units	3042145004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Trichloroethene	ug/L	ND	20	20	15.2	18.5	76	92	70-130	20	
1,2-Dichloroethane-d4 (S)	%						104	103	70-130		
4-Bromofluorobenzene (S)	%						100	99	70-130		
Toluene-d8 (S)	%						90	88	70-130		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 272473 272474

Parameter	Units	3042145004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.2	24.1	96	120	70-130	22	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.1	18.5	80	93	70-130	14	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.5	18.4	83	92	70-130	11	
1,1-Dichloroethane	ug/L	ND	20	20	18.0	22.3	90	111	70-130	21	
1,1-Dichloroethene	ug/L	ND	20	20	16.7	21.1	84	105	70-130	23	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.4	19.5	77	98	70-130	23	
1,2-Dichloroethane	ug/L	ND	20	20	18.1	21.4	91	107	70-130	16	
1,2-Dichloropropane	ug/L	ND	20	20	15.3	18.6	77	93	70-130	19	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.2	19.5	76	97	70-130	24	
1,4-Dichlorobenzene	ug/L	ND	20	20	15.5	20.2	77	101	70-130	26	
2-Butanone (MEK)	ug/L	ND	20	20	15.6	18.8	78	94	70-130	19	
2-Hexanone	ug/L	ND	20	20	16.9	16.9	85	84	70-130	.3	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	15.9	16.6	80	83	70-130	4	
Acetone	ug/L	ND	20	20	12.1	12.3	61	61	70-130	1	M0
Benzene	ug/L	ND	20	20	15.5	18.6	77	93	70-130	19	
Bromodichloromethane	ug/L	ND	20	20	14.7	16.9	74	85	70-130	14	
Bromoform	ug/L	ND	20	20	14.4	16.2	72	81	70-130	12	
Bromomethane	ug/L	ND	20	20	28.4	33.3	142	166	70-130	16	M0
Carbon disulfide	ug/L	ND	20	20	20.5	12.5	102	63	70-130	48	M0,R1
Carbon tetrachloride	ug/L	ND	20	20	18.1	23.1	90	116	70-130	25	
Chlorobenzene	ug/L	ND	20	20	15.2	18.7	76	93	70-130	20	
Chloroethane	ug/L	ND	20	20	19.3	20.6	97	103	70-130	6	
Chloroform	ug/L	ND	20	20	18.3	22.1	92	111	70-130	19	
Chloromethane	ug/L	ND	20	20	17.8	18.8	89	94	70-130	6	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.3	22.4	91	112	70-130	20	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.7	18.4	79	92	70-130	16	
Dibromochloromethane	ug/L	ND	20	20	14.2	16.3	71	82	70-130	14	
Ethylbenzene	ug/L	ND	20	20	15.8	19.5	79	98	70-130	21	
m&p-Xylene	ug/L	ND	40	40	32.6	39.7	82	99	70-130	20	
Methylene Chloride	ug/L	ND	20	20	16.3	20.1	82	100	70-130	21	
o-Xylene	ug/L	ND	20	20	15.4	19.1	77	96	70-130	22	
Styrene	ug/L	ND	20	20	15.6	18.8	78	94	70-130	18	
Tetrachloroethene	ug/L	ND	20	20	16.3	20.2	78	97	70-130	21	
Toluene	ug/L	ND	20	20	15.5	18.6	77	93	70-130	18	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.2	21.5	86	107	70-130	22	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.1	18.0	80	90	70-130	11	
Trichloroethene	ug/L	ND	20	20	15.2	18.5	76	92	70-130	20	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3042302

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 272473 272474

Parameter	Units	3042145004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Trichlorofluoromethane	ug/L	ND	20	20	25.4	26.5	127	133	70-130	4	M0
Vinyl chloride	ug/L	ND	20	20	21.5	22.9	108	114	70-130	6	
1,2-Dichloroethane-d4 (S)	%						104	103	70-130		
4-Bromofluorobenzene (S)	%						100	99	70-130		
Toluene-d8 (S)	%						90	88	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope Jamestown
Pace Project No.: 3042302

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope Jamestown
Pace Project No.: 3042302

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3042302001	**PRE-CARB**	EPA 8260	MSV/8627		
3042302002	**PRIMARY EFF**	EPA 8260	MSV/8627		
3042302003	**POST CARB**	EPA 8260	MSV/8627		
3042302004	**TB-01**	EPA 8260	MSV/8627		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1345309

Section A Required Client Information:

Company: URS CORP
Address: 501 HOLIDAY DR. FOSTER PLAZA 4, STE 300 PITTSBURGH, PA 15220
Email To:
Phone: 412-508-4900 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568904
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41568904.10000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			2.28.11	1000		3				X					X	X		001
2	PRIMARY-EFF	WT	G				1005		3				X					X	X		002
3	POST-CARB	WT	G				1010		3				X					X	X		003
4	POST-CARB	WT	G				1040		3				X					X	X		
5	POST-CARB	WT	G				1110		3				X					X	X		
6	POST-CARB	WT	G				1140		3				X					X	X		
7	TB-01	WT	G			2.28.11			2				X					X	X		004
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4)	Valerie Sibeto/URS	2.28.11	~1240		2.28.11	~1210				
POST-CARB SAMPLES IN					3/1/11	1015	3.9	Y	Y	Y
LAB MUD REPORT AS										
POST-CARB COMPOSITE										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 2.28.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Corp Project # 3042302

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 9672553810 17

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: 3 (5) Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 3-8 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: EEH 3/1/11

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☑N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: AQ				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes	☐No		Initial when completed EEH / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☑Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 3/1/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 01, 2011

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

RE: Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3044191

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

This report was reissued on August 1, 2011 to include Cumene results.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3044191

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3044191

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3044191001	**PRE-CARB**	EPA 8260	JAS	43	PASI-PA
3044191002	**PRIMARY-EFF**	EPA 8260	JAS	43	PASI-PA
3044191003	**POST-CARB**	EPA 8260	JAS	43	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3044191

Sample: PRE-CARB **Lab ID: 3044191001** Collected: 03/31/11 11:20 Received: 04/01/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**318**	ug/L	10.0	1		04/08/11 20:55	67-64-1	
Benzene	**6.9**	ug/L	1.0	1		04/08/11 20:55	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/11 20:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/11 20:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/11 20:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/08/11 20:55	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/11 20:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/11 20:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/11 20:55	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/11 20:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/11 20:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/11 20:55	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/11 20:55	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 20:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 20:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 20:55	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/11 20:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/11 20:55	107-06-2	
1,1-Dichloroethene	**15.3**	ug/L	5.0	1		04/08/11 20:55	75-35-4	
cis-1,2-Dichloroethene	**3440**	ug/L	500	100		04/12/11 19:35	156-59-2	
trans-1,2-Dichloroethene	**92.4**	ug/L	5.0	1		04/08/11 20:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/11 20:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 20:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 20:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/11 20:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/11 20:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/08/11 20:55	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/08/11 20:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/11 20:55	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/11 20:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/11 20:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/11 20:55	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/11 20:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/11 20:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/11 20:55	79-00-5	
Trichloroethene	**1200**	ug/L	500	100		04/12/11 19:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/11 20:55	75-69-4	
Vinyl chloride	**569**	ug/L	100	100		04/12/11 19:35	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/11 20:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/08/11 20:55	95-47-6	
4-Bromofluorobenzene (S)	91	%	70-130	1		04/08/11 20:55	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		04/08/11 20:55	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		04/08/11 20:55	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3044191

Sample: PRIMARY-EFF **Lab ID: 3044191002** Collected: 03/31/11 11:25 Received: 04/01/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/08/11 21:22	67-64-1	
Benzene	ND	ug/L	1.0	1		04/08/11 21:22	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/11 21:22	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/11 21:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/11 21:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/08/11 21:22	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/11 21:22	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/11 21:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/11 21:22	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/11 21:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/11 21:22	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/11 21:22	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/11 21:22	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 21:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 21:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 21:22	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/11 21:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/11 21:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/08/11 21:22	75-35-4	
cis-1,2-Dichloroethene	**1050**	ug/L	250	50		04/11/11 14:02	156-59-2	
trans-1,2-Dichloroethene	**8.5**	ug/L	5.0	1		04/08/11 21:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/11 21:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 21:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 21:22	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/11 21:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/11 21:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/08/11 21:22	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/08/11 21:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/11 21:22	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/11 21:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/11 21:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/11 21:22	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/11 21:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/11 21:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/11 21:22	79-00-5	
Trichloroethene	**44.2**	ug/L	5.0	1		04/08/11 21:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/11 21:22	75-69-4	
Vinyl chloride	**663**	ug/L	50.0	50		04/11/11 14:02	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/11 21:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/08/11 21:22	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130	1		04/08/11 21:22	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		04/08/11 21:22	17060-07-0	
Toluene-d8 (S)	90	%	70-130	1		04/08/11 21:22	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3044191

Sample: POST-CARB **Lab ID: 3044191003** Collected: 03/31/11 11:30 Received: 04/01/11 10:00 Matrix: Water

Comments: • This sample was composited from four vials prior to 8260B VOA analysis.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/08/11 21:48	67-64-1	
Benzene	ND	ug/L	1.0	1		04/08/11 21:48	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/11 21:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/11 21:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/11 21:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/08/11 21:48	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/11 21:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/11 21:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/11 21:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/11 21:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/11 21:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/11 21:48	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/11 21:48	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 21:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 21:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 21:48	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/11 21:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/11 21:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/08/11 21:48	75-35-4	
cis-1,2-Dichloroethene	**18.5**	ug/L	5.0	1		04/08/11 21:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/11 21:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/11 21:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 21:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 21:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/11 21:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/11 21:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/08/11 21:48	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/08/11 21:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/11 21:48	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/11 21:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/11 21:48	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/11 21:48	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/11 21:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/11 21:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/11 21:48	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/08/11 21:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/11 21:48	75-69-4	
Vinyl chloride	**63.7**	ug/L	1.0	1		04/08/11 21:48	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/11 21:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/08/11 21:48	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130	1		04/08/11 21:48	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		04/08/11 21:48	17060-07-0	
Toluene-d8 (S)	90	%	70-130	1		04/08/11 21:48	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3044191

QC Batch: MSV/8968 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3044191001, 3044191002, 3044191003

METHOD BLANK: 285805 Matrix: Water
Associated Lab Samples: 3044191001, 3044191002, 3044191003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/08/11 13:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/08/11 13:03	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/08/11 13:03	
1,1-Dichloroethane	ug/L	ND	5.0	04/08/11 13:03	
1,1-Dichloroethene	ug/L	ND	5.0	04/08/11 13:03	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/08/11 13:03	
1,2-Dichloroethane	ug/L	ND	5.0	04/08/11 13:03	
1,2-Dichloropropane	ug/L	ND	5.0	04/08/11 13:03	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/08/11 13:03	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/08/11 13:03	
2-Butanone (MEK)	ug/L	ND	10.0	04/08/11 13:03	
2-Hexanone	ug/L	ND	10.0	04/08/11 13:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/08/11 13:03	
Acetone	ug/L	ND	10.0	04/08/11 13:03	
Benzene	ug/L	ND	1.0	04/08/11 13:03	
Bromodichloromethane	ug/L	ND	5.0	04/08/11 13:03	
Bromoform	ug/L	ND	5.0	04/08/11 13:03	
Bromomethane	ug/L	ND	5.0	04/08/11 13:03	
Carbon disulfide	ug/L	ND	5.0	04/08/11 13:03	
Carbon tetrachloride	ug/L	ND	5.0	04/08/11 13:03	
Chlorobenzene	ug/L	ND	5.0	04/08/11 13:03	
Chloroethane	ug/L	ND	5.0	04/08/11 13:03	
Chloroform	ug/L	ND	5.0	04/08/11 13:03	
Chloromethane	ug/L	ND	5.0	04/08/11 13:03	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/08/11 13:03	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/08/11 13:03	
Dibromochloromethane	ug/L	ND	5.0	04/08/11 13:03	
Ethylbenzene	ug/L	ND	5.0	04/08/11 13:03	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	04/08/11 13:03	
m&p-Xylene	ug/L	ND	5.0	04/08/11 13:03	
Methylene Chloride	ug/L	ND	5.0	04/08/11 13:03	
o-Xylene	ug/L	ND	5.0	04/08/11 13:03	
Styrene	ug/L	ND	5.0	04/08/11 13:03	
Tetrachloroethene	ug/L	ND	5.0	04/08/11 13:03	
Toluene	ug/L	ND	5.0	04/08/11 13:03	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/08/11 13:03	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/08/11 13:03	
Trichloroethene	ug/L	ND	5.0	04/08/11 13:03	
Trichlorofluoromethane	ug/L	ND	5.0	04/08/11 13:03	
Vinyl chloride	ug/L	ND	1.0	04/08/11 13:03	
1,2-Dichloroethane-d4 (S)	%	105	70-130	04/08/11 13:03	
4-Bromofluorobenzene (S)	%	99	70-130	04/08/11 13:03	
Toluene-d8 (S)	%	95	70-130	04/08/11 13:03	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3044191

LABORATORY CONTROL SAMPLE: 285806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.8	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.4	97	70-130	
1,1,2-Trichloroethane	ug/L	20	21.3	107	70-130	
1,1-Dichloroethane	ug/L	20	19.6	98	70-130	
1,1-Dichloroethene	ug/L	20	18.6	93	70-130	
1,2-Dichlorobenzene	ug/L	20	20.3	101	70-130	
1,2-Dichloroethane	ug/L	20	21.8	109	70-130	
1,2-Dichloropropane	ug/L	20	20.1	101	70-130	
1,3-Dichlorobenzene	ug/L	20	20.6	103	70-130	
1,4-Dichlorobenzene	ug/L	20	20.5	103	70-130	
2-Butanone (MEK)	ug/L	20	21.5	107	70-130	
2-Hexanone	ug/L	20	21.3	106	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.4	97	70-130	
Acetone	ug/L	20	23.7	118	70-130	
Benzene	ug/L	20	20.3	102	70-130	
Bromodichloromethane	ug/L	20	18.6	93	70-130	
Bromoform	ug/L	20	17.9	90	70-130	
Bromomethane	ug/L	20	35.4	177	70-130	L3
Carbon disulfide	ug/L	20	21.3	107	70-130	
Carbon tetrachloride	ug/L	20	20.0	100	70-130	
Chlorobenzene	ug/L	20	20.8	104	70-130	
Chloroethane	ug/L	20	19.0	95	70-130	
Chloroform	ug/L	20	21.0	105	70-130	
Chloromethane	ug/L	20	17.5	88	70-130	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.5	98	70-130	
Dibromochloromethane	ug/L	20	19.7	98	70-130	
Ethylbenzene	ug/L	20	20.9	104	70-130	
Isopropylbenzene (Cumene)	ug/L	20	20.9	104	70-130	
m&p-Xylene	ug/L	40	43.8	110	70-130	
Methylene Chloride	ug/L	20	19.4	97	70-130	
o-Xylene	ug/L	20	21.0	105	70-130	
Styrene	ug/L	20	20.7	104	70-130	
Tetrachloroethene	ug/L	20	21.2	106	70-130	
Toluene	ug/L	20	20.7	103	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.5	97	70-130	
Trichloroethene	ug/L	20	19.9	99	70-130	
Trichlorofluoromethane	ug/L	20	23.4	117	70-130	
Vinyl chloride	ug/L	20	18.4	92	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			96	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3044191

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 285807 285808

Parameter	Units	3044057001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	18.5	15.5	92	78	70-130	17	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.5	16.7	92	83	70-130	10	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.5	16.7	93	83	70-130	10	
1,1-Dichloroethane	ug/L	ND	20	20	17.1	14.9	86	75	70-130	14	
1,1-Dichloroethene	ug/L	ND	20	20	15.5	13.2	78	66	70-130	16	M0
1,2-Dichlorobenzene	ug/L	ND	20	20	17.6	15.2	88	76	70-130	14	
1,2-Dichloroethane	ug/L	ND	20	20	18.1	16.2	91	81	70-130	12	
1,2-Dichloropropane	ug/L	ND	20	20	16.4	14.5	82	73	70-130	12	
1,3-Dichlorobenzene	ug/L	ND	20	20	16.9	14.5	84	73	70-130	15	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.6	15.1	88	75	70-130	15	
2-Butanone (MEK)	ug/L	ND	20	20	18.2	17.5	91	88	70-130	4	
2-Hexanone	ug/L	ND	20	20	16.1	16.6	80	83	70-130	3	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	15.2	14.6	76	73	70-130	4	
Acetone	ug/L	ND	20	20	17.9	20.7	89	103	70-130	15	
Benzene	ug/L	ND	20	20	16.7	14.3	83	72	70-130	15	
Bromodichloromethane	ug/L	ND	20	20	14.2	12.9	71	65	70-130	10	M0
Bromoform	ug/L	ND	20	20	13.7	12.9	69	65	70-130	6	M0
Bromomethane	ug/L	ND	20	20	21.0	25.3	105	127	70-130	19	
Carbon disulfide	ug/L	ND	20	20	18.4	15.9	92	80	70-130	15	
Carbon tetrachloride	ug/L	ND	20	20	15.0	13.0	75	65	70-130	14	M0
Chlorobenzene	ug/L	ND	20	20	16.7	14.7	83	74	70-130	12	
Chloroethane	ug/L	ND	20	20	21.3	21.4	106	107	70-130	.7	
Chloroform	ug/L	ND	20	20	18.4	15.9	92	80	70-130	14	
Chloromethane	ug/L	ND	20	20	17.9	17.9	90	90	70-130	.04	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.5	15.4	85	74	70-130	13	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.2	13.3	76	66	70-130	13	M0
Dibromochloromethane	ug/L	ND	20	20	15.4	14.6	77	73	70-130	6	
Ethylbenzene	ug/L	ND	20	20	16.6	14.2	83	71	70-130	16	
m&p-Xylene	ug/L	ND	40	40	35.2	28.9	88	72	70-130	20	
Methylene Chloride	ug/L	ND	20	20	16.8	15.4	84	77	70-130	9	
o-Xylene	ug/L	ND	20	20	16.6	14.9	83	74	70-130	11	
Styrene	ug/L	ND	20	20	16.2	13.8	81	69	70-130	16	M0
Tetrachloroethene	ug/L	ND	20	20	16.1	14.2	81	71	70-130	12	
Toluene	ug/L	ND	20	20	16.6	14.2	83	71	70-130	16	
trans-1,2-Dichloroethene	ug/L	ND	20	20	16.0	14.2	80	71	70-130	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	14.7	13.0	73	65	70-130	12	M0
Trichloroethene	ug/L	ND	20	20	15.9	13.4	80	67	70-130	17	M0
Trichlorofluoromethane	ug/L	ND	20	20	28.8	26.9	144	134	70-130	7	M0
Vinyl chloride	ug/L	ND	20	20	20.8	20.2	104	101	70-130	3	
1,2-Dichloroethane-d4 (S)	%						96	95	70-130		
4-Bromofluorobenzene (S)	%						94	94	70-130		
Toluene-d8 (S)	%						87	87	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3044191

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3044191

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3044191001	**PRE-CARB**	EPA 8260	MSV/8968		
3044191002	**PRIMARY-EFF**	EPA 8260	MSV/8968		
3044191003	**POST-CARB**	EPA 8260	MSV/8968		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1344485

Section A Required Client Information:

Company: URS CORP
Address: 501 HOLIDAY DR. FOSTER PLAZA 4, STE. 300 PITTSBURGH, PA, 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568904
Project Name: ESSEX HOPE JAMESTOWN
Project Number: 41568904.10000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N ⇒	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			3.31.11	1120		3				X						X		001
2	PRIMARY-EFF						1125		3				X						X		002
3	POST-CARB						1130		3				X						X		003
4	POST-CARB						1200		3				X						X		004
5	POST-CARB						1230		3				X						X		005
6	POST-CARB						1300		3				X						X		006
7																					
8																					
9																					
10																					
11																					
12																					

3044191

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4)	Valerie Sibeto/URS	3.31.11	~1330	Fed Ex Air	3.31.11	~1330				
POST-CARB SAMPLES IN LAB					4/1/11	1000	5.8	Y	N	Y
AND REPORT AS										
POST-CARB COMPOSITE										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: Valerie Sibeto DATE Signed (MM/DD/YY): 3.31.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

RES

Sample Condition Upon Receipt

Pace Analytical

Client Name: CRS Project # 3044191

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8672 5539 1040

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used (3) 5 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 5-8 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: EEH 4/1/11

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: SO		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed EEH / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 4-4-11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 01, 2011

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

RE: Project: Essex-Hope 41568904.10000
Pace Project No.: 3045899

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

This report was reissued on August 1, 2011 to include Cumene results.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568904.10000
Pace Project No.: 3045899

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568904.10000
Pace Project No.: 3045899

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3045899001	**PRE-CARB**	EPA 8260	JAS	43	PASI-PA
3045899002	**PRIMARY-EFF**	EPA 8260	JAS	43	PASI-PA
3045899003	**POST-CARB**	EPA 8260	JAS	43	PASI-PA
3045899004	**TB-01**	EPA 8260	JAS	43	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568904.10000
Pace Project No.: 3045899

Sample: PRE-CARB **Lab ID: 3045899001** Collected: 04/29/11 10:30 Received: 04/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/04/11 20:51	67-64-1	
Benzene	ND	ug/L	1.0	1		05/04/11 20:51	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/04/11 20:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/04/11 20:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/04/11 20:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/04/11 20:51	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/04/11 20:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/04/11 20:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/04/11 20:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/04/11 20:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/04/11 20:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/04/11 20:51	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/04/11 20:51	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 20:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 20:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 20:51	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/04/11 20:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/04/11 20:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/04/11 20:51	75-35-4	
cis-1,2-Dichloroethene	**118**	ug/L	5.0	1		05/04/11 20:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/04/11 20:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/04/11 20:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 20:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 20:51	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/04/11 20:51	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/04/11 20:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/04/11 20:51	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/04/11 20:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/04/11 20:51	108-10-1	
Styrene	ND	ug/L	5.0	1		05/04/11 20:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/04/11 20:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/04/11 20:51	127-18-4	
Toluene	ND	ug/L	5.0	1		05/04/11 20:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/04/11 20:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/04/11 20:51	79-00-5	
Trichloroethene	**95.2**	ug/L	5.0	1		05/04/11 20:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/04/11 20:51	75-69-4	
Vinyl chloride	**6.4**	ug/L	1.0	1		05/04/11 20:51	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/04/11 20:51	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/04/11 20:51	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		05/04/11 20:51	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/04/11 20:51	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		05/04/11 20:51	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568904.10000
Pace Project No.: 3045899

Sample: PRIMARY-EFF **Lab ID: 3045899002** Collected: 04/29/11 10:35 Received: 04/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**92.2**	ug/L	10.0	1		05/04/11 21:44	67-64-1	
Benzene	ND	ug/L	1.0	1		05/04/11 21:44	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/04/11 21:44	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/04/11 21:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/04/11 21:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/04/11 21:44	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/04/11 21:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/04/11 21:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/04/11 21:44	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/04/11 21:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/04/11 21:44	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/04/11 21:44	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/04/11 21:44	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 21:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 21:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 21:44	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/04/11 21:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/04/11 21:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/04/11 21:44	75-35-4	
cis-1,2-Dichloroethene	**1390**	ug/L	50.0	10		05/04/11 22:10	156-59-2	
trans-1,2-Dichloroethene	**10**	ug/L	5.0	1		05/04/11 21:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/04/11 21:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 21:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 21:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/04/11 21:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/04/11 21:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/04/11 21:44	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/04/11 21:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/04/11 21:44	108-10-1	
Styrene	ND	ug/L	5.0	1		05/04/11 21:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/04/11 21:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/04/11 21:44	127-18-4	
Toluene	ND	ug/L	5.0	1		05/04/11 21:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/04/11 21:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/04/11 21:44	79-00-5	
Trichloroethene	**22.4**	ug/L	5.0	1		05/04/11 21:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/04/11 21:44	75-69-4	
Vinyl chloride	**564**	ug/L	10.0	10		05/04/11 22:10	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/04/11 21:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/04/11 21:44	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		05/04/11 21:44	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		05/04/11 21:44	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		05/04/11 21:44	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568904.10000
Pace Project No.: 3045899

Sample: POST-CARB **Lab ID: 3045899003** Collected: 04/29/11 10:40 Received: 04/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**35.2**	ug/L	10.0	1		05/04/11 22:36	67-64-1	
Benzene	ND	ug/L	1.0	1		05/04/11 22:36	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/04/11 22:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/04/11 22:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/04/11 22:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/04/11 22:36	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/04/11 22:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/04/11 22:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/04/11 22:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/04/11 22:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/04/11 22:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/04/11 22:36	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/04/11 22:36	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 22:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 22:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 22:36	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/04/11 22:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/04/11 22:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/04/11 22:36	75-35-4	
cis-1,2-Dichloroethene	**17.9**	ug/L	5.0	1		05/04/11 22:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/04/11 22:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/04/11 22:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 22:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 22:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/04/11 22:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/04/11 22:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/04/11 22:36	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/04/11 22:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/04/11 22:36	108-10-1	
Styrene	ND	ug/L	5.0	1		05/04/11 22:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/04/11 22:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/04/11 22:36	127-18-4	
Toluene	ND	ug/L	5.0	1		05/04/11 22:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/04/11 22:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/04/11 22:36	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/04/11 22:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/04/11 22:36	75-69-4	
Vinyl chloride	**317**	ug/L	1.0	1		05/04/11 22:36	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/04/11 22:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/04/11 22:36	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		05/04/11 22:36	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130	1		05/04/11 22:36	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		05/04/11 22:36	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568904.10000
Pace Project No.: 3045899

Sample: TB-01 **Lab ID: 3045899004** Collected: 04/29/11 00:01 Received: 04/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/04/11 23:02	67-64-1	
Benzene	ND	ug/L	1.0	1		05/04/11 23:02	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/04/11 23:02	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/04/11 23:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/04/11 23:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/04/11 23:02	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/04/11 23:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/04/11 23:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/04/11 23:02	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/04/11 23:02	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/04/11 23:02	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/04/11 23:02	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/04/11 23:02	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 23:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 23:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 23:02	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/04/11 23:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/04/11 23:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/04/11 23:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/04/11 23:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/04/11 23:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/04/11 23:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 23:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 23:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/04/11 23:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/04/11 23:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/04/11 23:02	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/04/11 23:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/04/11 23:02	108-10-1	
Styrene	ND	ug/L	5.0	1		05/04/11 23:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/04/11 23:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/04/11 23:02	127-18-4	
Toluene	ND	ug/L	5.0	1		05/04/11 23:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/04/11 23:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/04/11 23:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/04/11 23:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/04/11 23:02	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		05/04/11 23:02	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/04/11 23:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/04/11 23:02	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		05/04/11 23:02	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		05/04/11 23:02	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		05/04/11 23:02	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568904.10000
Pace Project No.: 3045899

QC Batch: MSV/9202 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3045899001, 3045899002, 3045899003, 3045899004

METHOD BLANK: 294543 Matrix: Water
Associated Lab Samples: 3045899001, 3045899002, 3045899003, 3045899004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/04/11 16:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/04/11 16:03	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/04/11 16:03	
1,1-Dichloroethane	ug/L	ND	5.0	05/04/11 16:03	
1,1-Dichloroethene	ug/L	ND	5.0	05/04/11 16:03	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/04/11 16:03	
1,2-Dichloroethane	ug/L	ND	5.0	05/04/11 16:03	
1,2-Dichloropropane	ug/L	ND	5.0	05/04/11 16:03	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/04/11 16:03	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/04/11 16:03	
2-Butanone (MEK)	ug/L	ND	10.0	05/04/11 16:03	
2-Hexanone	ug/L	ND	10.0	05/04/11 16:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/04/11 16:03	
Acetone	ug/L	ND	10.0	05/04/11 16:03	
Benzene	ug/L	ND	1.0	05/04/11 16:03	
Bromodichloromethane	ug/L	ND	5.0	05/04/11 16:03	
Bromoform	ug/L	ND	5.0	05/04/11 16:03	
Bromomethane	ug/L	ND	5.0	05/04/11 16:03	
Carbon disulfide	ug/L	ND	5.0	05/04/11 16:03	
Carbon tetrachloride	ug/L	ND	5.0	05/04/11 16:03	
Chlorobenzene	ug/L	ND	5.0	05/04/11 16:03	
Chloroethane	ug/L	ND	5.0	05/04/11 16:03	
Chloroform	ug/L	ND	5.0	05/04/11 16:03	
Chloromethane	ug/L	ND	5.0	05/04/11 16:03	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/04/11 16:03	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/04/11 16:03	
Dibromochloromethane	ug/L	ND	5.0	05/04/11 16:03	
Ethylbenzene	ug/L	ND	5.0	05/04/11 16:03	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/04/11 16:03	
m&p-Xylene	ug/L	ND	5.0	05/04/11 16:03	
Methylene Chloride	ug/L	ND	5.0	05/04/11 16:03	
o-Xylene	ug/L	ND	5.0	05/04/11 16:03	
Styrene	ug/L	ND	5.0	05/04/11 16:03	
Tetrachloroethene	ug/L	ND	5.0	05/04/11 16:03	
Toluene	ug/L	ND	5.0	05/04/11 16:03	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/04/11 16:03	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/04/11 16:03	
Trichloroethene	ug/L	ND	5.0	05/04/11 16:03	
Trichlorofluoromethane	ug/L	ND	5.0	05/04/11 16:03	
Vinyl chloride	ug/L	ND	1.0	05/04/11 16:03	
1,2-Dichloroethane-d4 (S)	%	112	70-130	05/04/11 16:03	
4-Bromofluorobenzene (S)	%	100	70-130	05/04/11 16:03	
Toluene-d8 (S)	%	103	70-130	05/04/11 16:03	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568904.10000
Pace Project No.: 3045899

LABORATORY CONTROL SAMPLE: 294544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.7	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	22.1	110	70-130	
1,1,2-Trichloroethane	ug/L	20	21.6	108	70-130	
1,1-Dichloroethane	ug/L	20	19.7	99	70-130	
1,1-Dichloroethene	ug/L	20	17.9	90	70-130	
1,2-Dichlorobenzene	ug/L	20	20.1	100	70-130	
1,2-Dichloroethane	ug/L	20	19.5	98	70-130	
1,2-Dichloropropane	ug/L	20	21.1	105	70-130	
1,3-Dichlorobenzene	ug/L	20	20.3	101	70-130	
1,4-Dichlorobenzene	ug/L	20	20.4	102	70-130	
2-Butanone (MEK)	ug/L	20	17.3	87	70-130	
2-Hexanone	ug/L	20	19.6	98	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.3	96	70-130	
Acetone	ug/L	20	23.5	117	70-130	
Benzene	ug/L	20	21.7	108	70-130	
Bromodichloromethane	ug/L	20	20.1	100	70-130	
Bromoform	ug/L	20	16.9	85	70-130	
Bromomethane	ug/L	20	25.8	129	70-130	
Carbon disulfide	ug/L	20	16.2	81	70-130	
Carbon tetrachloride	ug/L	20	16.9	85	70-130	
Chlorobenzene	ug/L	20	20.5	102	70-130	
Chloroethane	ug/L	20	19.8	99	70-130	
Chloroform	ug/L	20	19.6	98	70-130	
Chloromethane	ug/L	20	16.7	83	70-130	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	70-130	
cis-1,3-Dichloropropene	ug/L	20	21.2	106	70-130	
Dibromochloromethane	ug/L	20	19.1	95	70-130	
Ethylbenzene	ug/L	20	19.9	100	70-130	
Isopropylbenzene (Cumene)	ug/L	20	20.8	104	70-130	
m&p-Xylene	ug/L	40	41.3	103	70-130	
Methylene Chloride	ug/L	20	18.2	91	70-130	
o-Xylene	ug/L	20	20.3	101	70-130	
Styrene	ug/L	20	19.7	98	70-130	
Tetrachloroethene	ug/L	20	20.1	101	70-130	
Toluene	ug/L	20	20.7	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.4	102	70-130	
Trichloroethene	ug/L	20	19.3	97	70-130	
Trichlorofluoromethane	ug/L	20	17.7	88	70-130	
Vinyl chloride	ug/L	20	18.9	95	70-130	
1,2-Dichloroethane-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			108	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568904.10000
Pace Project No.: 3045899

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 294545 294546

Parameter	Units	3045965001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	150	18.3	751	92	70-130	156	M0,R1
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.4	22.3	102	112	70-130	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.6	20.4	88	102	70-130	15	
1,1-Dichloroethane	ug/L	ND	20	20	34.2	20.0	171	100	70-130	52	M0,R1
1,1-Dichloroethene	ug/L	ND	20	20	21.3	18.4	107	92	70-130	15	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.8	19.6	89	98	70-130	10	
1,2-Dichloroethane	ug/L	ND	20	20	16.8	18.1	84	90	70-130	7	
1,2-Dichloropropane	ug/L	ND	20	20	18.5	20.4	92	102	70-130	10	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.4	19.9	92	100	70-130	8	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.6	19.7	93	98	70-130	5	
2-Butanone (MEK)	ug/L	ND	20	20	17.3	17.9	86	89	70-130	4	
2-Hexanone	ug/L	ND	20	20	17.3	19.8	86	99	70-130	13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.5	19.4	88	97	70-130	10	
Acetone	ug/L	ND	20	20	20.9	23.1	104	115	70-130	10	
Benzene	ug/L	ND	20	20	19.0	21.2	95	106	70-130	11	
Bromodichloromethane	ug/L	ND	20	20	17.0	18.7	85	94	70-130	10	
Bromoform	ug/L	ND	20	20	13.1	15.0	66	75	70-130	13	M0
Bromomethane	ug/L	ND	20	20	16.6	21.3	83	107	70-130	25	
Carbon disulfide	ug/L	ND	20	20	13.8	14.0	69	70	70-130	2	M0
Carbon tetrachloride	ug/L	ND	20	20	15.5	17.2	77	86	70-130	11	
Chlorobenzene	ug/L	ND	20	20	17.7	19.4	88	97	70-130	9	
Chloroethane	ug/L	ND	20	20	21.8	19.1	109	96	70-130	13	
Chloroform	ug/L	ND	20	20	17.9	18.8	89	94	70-130	5	
Chloromethane	ug/L	ND	20	20	15.8	16.3	79	82	70-130	3	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.8	20.2	99	101	70-130	2	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.8	20.1	89	100	70-130	12	
Dibromochloromethane	ug/L	ND	20	20	15.4	17.2	77	86	70-130	11	
Ethylbenzene	ug/L	ND	20	20	17.6	19.5	88	97	70-130	10	
m&p-Xylene	ug/L	ND	40	40	35.5	39.5	89	99	70-130	11	
Methylene Chloride	ug/L	ND	20	20	16.1	17.4	80	87	70-130	8	
o-Xylene	ug/L	ND	20	20	17.6	19.2	88	96	70-130	9	
Styrene	ug/L	ND	20	20	17.0	19.0	85	95	70-130	11	
Tetrachloroethene	ug/L	ND	20	20	17.4	19.6	87	98	70-130	12	
Toluene	ug/L	ND	20	20	17.9	20.0	89	100	70-130	11	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.0	19.4	90	97	70-130	8	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.8	18.9	84	94	70-130	12	
Trichloroethene	ug/L	ND	20	20	21.4	19.2	107	96	70-130	11	
Trichlorofluoromethane	ug/L	ND	20	20	18.1	17.4	90	87	70-130	4	
Vinyl chloride	ug/L	ND	20	20	19.4	19.9	97	99	70-130	3	
1,2-Dichloroethane-d4 (S)	%						107	106	70-130		
4-Bromofluorobenzene (S)	%						101	100	70-130		
Toluene-d8 (S)	%						103	105	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope 41568904.10000
Pace Project No.: 3045899

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568904.10000
Pace Project No.: 3045899

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3045899001	**PRE-CARB**	EPA 8260	MSV/9202		
3045899002	**PRIMARY-EFF**	EPA 8260	MSV/9202		
3045899003	**POST-CARB**	EPA 8260	MSV/9202		
3045899004	**TB-01**	EPA 8260	MSV/9202		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1296844

Section A Required Client Information:

Company:	URS CORP
Address:	501 HOLIDAY DR. FOSTER PLAZA 4 STE 300 PITTSBURGH, PA 15220
Email To:	
Phone: 412-503-4709	Fax: 412-503-4701
Requested Due Date/TAT:	STANDARD

Section B Required Project Information:

Report To:	MARK DOWIAK
Copy To:	VALERIE SIBETO
Purchase Order No.:	41568904
Project Name:	ESSEX/HOPE JAMESTOWN
Project Number:	41568904, 10000

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 30458899
1	PRE-CARB	WT	G			4.29.11	1030		3				X					X	X		001
2	PRIMARY-EFF						1035		3				X					X	X		002
3	POST-CARB						1040		3				X					X	X		003
4	POST-CARB						1110		3				X					X	X		
5	POST-CARB						1140		3				X					X	X		
6	POST-CARB						1210		3				X					X	X		
7	TB-01					4.29.11	—		2				X					X	X		004
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4) POST-CARB SAMPLES IN LABS AND REPORT AS POST-CARB COMPOSITE	Valerie Sibeto/URS	4.29.11	~1235	[illegible]	4.29.11	~1235				
				Sylvester/Pace	4/30/11	1100	2.9	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: Valerie Sibeto DATE Signed (MM/DD/YY): 4.29.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

RES

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30458999

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8607 5538 1061

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 3 (5) Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 2.9 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: RES 4/30/11

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☑ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume:	☑ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☑ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☑ Yes ☐ No ☐ N/A	
Containers Intact:	☑ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☑ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑ Yes ☐ No	Initial when completed RES / Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	15.
Trip Blank Present:	☑ Yes ☐ No ☐ N/A	16.
Trip Blank Custody Seals Present	☑ Yes ☐ No ☐ N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 5-2-11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 01, 2011

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

RE: Project: Essex-Hope
Pace Project No.: 3046913

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on May 19, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

This report was reissued on August 1, 2011 to include Cumene results.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope
Pace Project No.: 3046913

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Essex-Hope
Pace Project No.: 3046913

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3046913001	**PRE-CARB**	EPA 8260	MAK	43	PASI-PA
3046913002	**PRIMARY-EFF**	EPA 8260	MAK	43	PASI-PA
3046913003	**POST-CARB**	EPA 8260	MAK	43	PASI-PA
3046913004	**TB-01**	EPA 8260	MAK	43	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3046913

Sample: PRE-CARB **Lab ID: 3046913001** Collected: 05/18/11 11:00 Received: 05/19/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/24/11 19:08	67-64-1	
Benzene	**5.0**	ug/L	1.0	1		05/24/11 19:08	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/24/11 19:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/24/11 19:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/24/11 19:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/24/11 19:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/24/11 19:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/24/11 19:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/24/11 19:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/24/11 19:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/24/11 19:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/24/11 19:08	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/24/11 19:08	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 19:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 19:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 19:08	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/24/11 19:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/24/11 19:08	107-06-2	
1,1-Dichloroethene	**10.4**	ug/L	5.0	1		05/24/11 19:08	75-35-4	
cis-1,2-Dichloroethene	**2940**	ug/L	100	20		05/24/11 19:32	156-59-2	
trans-1,2-Dichloroethene	**23.5**	ug/L	5.0	1		05/24/11 19:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/24/11 19:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/24/11 19:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/24/11 19:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/24/11 19:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/24/11 19:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/24/11 19:08	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/24/11 19:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/24/11 19:08	108-10-1	
Styrene	ND	ug/L	5.0	1		05/24/11 19:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/24/11 19:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/24/11 19:08	127-18-4	
Toluene	ND	ug/L	5.0	1		05/24/11 19:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/24/11 19:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/24/11 19:08	79-00-5	
Trichloroethene	**1110**	ug/L	100	20		05/24/11 19:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/24/11 19:08	75-69-4	
Vinyl chloride	**484**	ug/L	20.0	20		05/24/11 19:32	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/24/11 19:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/24/11 19:08	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		05/24/11 19:08	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130	1		05/24/11 19:08	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		05/24/11 19:08	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3046913

Sample: PRIMARY-EFF **Lab ID: 3046913002** Collected: 05/18/11 11:05 Received: 05/19/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**2740**	ug/L	200	20		05/24/11 20:21	67-64-1	
Benzene	ND	ug/L	1.0	1		05/24/11 19:57	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/24/11 19:57	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/24/11 19:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/24/11 19:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/24/11 19:57	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/24/11 19:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/24/11 19:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/24/11 19:57	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/24/11 19:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/24/11 19:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/24/11 19:57	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/24/11 19:57	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 19:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 19:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 19:57	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/24/11 19:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/24/11 19:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/24/11 19:57	75-35-4	
cis-1,2-Dichloroethene	**1790**	ug/L	100	20		05/24/11 20:21	156-59-2	
trans-1,2-Dichloroethene	**7.4**	ug/L	5.0	1		05/24/11 19:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/24/11 19:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/24/11 19:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/24/11 19:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/24/11 19:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/24/11 19:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/24/11 19:57	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/24/11 19:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/24/11 19:57	108-10-1	
Styrene	ND	ug/L	5.0	1		05/24/11 19:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/24/11 19:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/24/11 19:57	127-18-4	
Toluene	ND	ug/L	5.0	1		05/24/11 19:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/24/11 19:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/24/11 19:57	79-00-5	
Trichloroethene	**45.7**	ug/L	5.0	1		05/24/11 19:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/24/11 19:57	75-69-4	
Vinyl chloride	**651**	ug/L	20.0	20		05/24/11 20:21	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/24/11 19:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/24/11 19:57	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		05/24/11 19:57	460-00-4	
1,2-Dichloroethane-d4 (S)	82	%	70-130	1		05/24/11 19:57	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		05/24/11 19:57	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3046913

Sample: POST-CARB **Lab ID: 3046913003** Collected: 05/18/11 11:10 Received: 05/19/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**330**	ug/L	10.0	1		05/24/11 20:45	67-64-1	
Benzene	ND	ug/L	1.0	1		05/24/11 20:45	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/24/11 20:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/24/11 20:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/24/11 20:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/24/11 20:45	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/24/11 20:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/24/11 20:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/24/11 20:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/24/11 20:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/24/11 20:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/24/11 20:45	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/24/11 20:45	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 20:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 20:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 20:45	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/24/11 20:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/24/11 20:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/24/11 20:45	75-35-4	
cis-1,2-Dichloroethene	**16.4**	ug/L	5.0	1		05/24/11 20:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/24/11 20:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/24/11 20:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/24/11 20:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/24/11 20:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/24/11 20:45	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/24/11 20:45	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/24/11 20:45	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/24/11 20:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/24/11 20:45	108-10-1	
Styrene	ND	ug/L	5.0	1		05/24/11 20:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/24/11 20:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/24/11 20:45	127-18-4	
Toluene	ND	ug/L	5.0	1		05/24/11 20:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/24/11 20:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/24/11 20:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/24/11 20:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/24/11 20:45	75-69-4	
Vinyl chloride	**763**	ug/L	10.0	10		05/24/11 21:10	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/24/11 20:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/24/11 20:45	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		05/24/11 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		05/24/11 20:45	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		05/24/11 20:45	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3046913

Sample: TB-01 **Lab ID: 3046913004** Collected: 05/18/11 00:01 Received: 05/19/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/24/11 21:34	67-64-1	
Benzene	ND	ug/L	1.0	1		05/24/11 21:34	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/24/11 21:34	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/24/11 21:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/24/11 21:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/24/11 21:34	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/24/11 21:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/24/11 21:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/24/11 21:34	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/24/11 21:34	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/24/11 21:34	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/24/11 21:34	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/24/11 21:34	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 21:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 21:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 21:34	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/24/11 21:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/24/11 21:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/24/11 21:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/24/11 21:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/24/11 21:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/24/11 21:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/24/11 21:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/24/11 21:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/24/11 21:34	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/24/11 21:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/24/11 21:34	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/24/11 21:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/24/11 21:34	108-10-1	
Styrene	ND	ug/L	5.0	1		05/24/11 21:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/24/11 21:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/24/11 21:34	127-18-4	
Toluene	ND	ug/L	5.0	1		05/24/11 21:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/24/11 21:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/24/11 21:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/24/11 21:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/24/11 21:34	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		05/24/11 21:34	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/24/11 21:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/24/11 21:34	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		05/24/11 21:34	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		05/24/11 21:34	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		05/24/11 21:34	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3046913

QC Batch: MSV/9399 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3046913001, 3046913002, 3046913003, 3046913004

METHOD BLANK: 302062 Matrix: Water
Associated Lab Samples: 3046913001, 3046913002, 3046913003, 3046913004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/24/11 12:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/24/11 12:39	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/24/11 12:39	
1,1-Dichloroethane	ug/L	ND	5.0	05/24/11 12:39	
1,1-Dichloroethene	ug/L	ND	5.0	05/24/11 12:39	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/24/11 12:39	
1,2-Dichloroethane	ug/L	ND	5.0	05/24/11 12:39	
1,2-Dichloropropane	ug/L	ND	5.0	05/24/11 12:39	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/24/11 12:39	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/24/11 12:39	
2-Butanone (MEK)	ug/L	ND	10.0	05/24/11 12:39	
2-Hexanone	ug/L	ND	10.0	05/24/11 12:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/24/11 12:39	
Acetone	ug/L	ND	10.0	05/24/11 12:39	
Benzene	ug/L	ND	1.0	05/24/11 12:39	
Bromodichloromethane	ug/L	ND	5.0	05/24/11 12:39	
Bromoform	ug/L	ND	5.0	05/24/11 12:39	
Bromomethane	ug/L	ND	5.0	05/24/11 12:39	
Carbon disulfide	ug/L	ND	5.0	05/24/11 12:39	
Carbon tetrachloride	ug/L	ND	5.0	05/24/11 12:39	
Chlorobenzene	ug/L	ND	5.0	05/24/11 12:39	
Chloroethane	ug/L	ND	5.0	05/24/11 12:39	
Chloroform	ug/L	ND	5.0	05/24/11 12:39	
Chloromethane	ug/L	ND	5.0	05/24/11 12:39	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/24/11 12:39	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/24/11 12:39	
Dibromochloromethane	ug/L	ND	5.0	05/24/11 12:39	
Ethylbenzene	ug/L	ND	5.0	05/24/11 12:39	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/24/11 12:39	
m&p-Xylene	ug/L	ND	5.0	05/24/11 12:39	
Methylene Chloride	ug/L	ND	5.0	05/24/11 12:39	
o-Xylene	ug/L	ND	5.0	05/24/11 12:39	
Styrene	ug/L	ND	5.0	05/24/11 12:39	
Tetrachloroethene	ug/L	ND	5.0	05/24/11 12:39	
Toluene	ug/L	ND	5.0	05/24/11 12:39	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/24/11 12:39	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/24/11 12:39	
Trichloroethene	ug/L	ND	5.0	05/24/11 12:39	
Trichlorofluoromethane	ug/L	ND	5.0	05/24/11 12:39	
Vinyl chloride	ug/L	ND	1.0	05/24/11 12:39	
1,2-Dichloroethane-d4 (S)	%	83	70-130	05/24/11 12:39	
4-Bromofluorobenzene (S)	%	100	70-130	05/24/11 12:39	
Toluene-d8 (S)	%	104	70-130	05/24/11 12:39	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3046913

LABORATORY CONTROL SAMPLE: 302063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	15.6	78	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	70-130	
1,1,2-Trichloroethane	ug/L	20	18.8	94	70-130	
1,1-Dichloroethane	ug/L	20	17.5	88	70-130	
1,1-Dichloroethene	ug/L	20	14.3	71	70-130	
1,2-Dichlorobenzene	ug/L	20	17.6	88	70-130	
1,2-Dichloroethane	ug/L	20	14.3	71	70-130	
1,2-Dichloropropane	ug/L	20	19.5	97	70-130	
1,3-Dichlorobenzene	ug/L	20	17.5	87	70-130	
1,4-Dichlorobenzene	ug/L	20	17.7	88	70-130	
2-Butanone (MEK)	ug/L	20	15.8	79	70-130	
2-Hexanone	ug/L	20	18.3	91	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.0	80	70-130	
Acetone	ug/L	20	15.5	77	70-130	
Benzene	ug/L	20	19.5	97	70-130	
Bromodichloromethane	ug/L	20	15.9	79	70-130	
Bromoform	ug/L	20	17.2	86	70-130	
Bromomethane	ug/L	20	30.9	155	70-130	L1
Carbon disulfide	ug/L	20	15.5	77	70-130	
Carbon tetrachloride	ug/L	20	15.2	76	70-130	
Chlorobenzene	ug/L	20	18.6	93	70-130	
Chloroethane	ug/L	20	16.6	83	70-130	
Chloroform	ug/L	20	15.7	78	70-130	
Chloromethane	ug/L	20	17.5	87	70-130	
cis-1,2-Dichloroethene	ug/L	20	16.9	85	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.9	89	70-130	
Dibromochloromethane	ug/L	20	16.8	84	70-130	
Ethylbenzene	ug/L	20	19.0	95	70-130	
Isopropylbenzene (Cumene)	ug/L	20	19.0	95	70-130	
m&p-Xylene	ug/L	40	39.6	99	70-130	
Methylene Chloride	ug/L	20	13.9	70	70-130	
o-Xylene	ug/L	20	19.6	98	70-130	
Styrene	ug/L	20	18.8	94	70-130	
Tetrachloroethene	ug/L	20	17.7	88	70-130	
Toluene	ug/L	20	19.7	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	15.9	80	70-130	
trans-1,3-Dichloropropene	ug/L	20	15.7	78	70-130	
Trichloroethene	ug/L	20	18.1	91	70-130	
Trichlorofluoromethane	ug/L	20	15.2	76	70-130	
Vinyl chloride	ug/L	20	17.5	88	70-130	
1,2-Dichloroethane-d4 (S)	%			82	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			103	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3046913

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 302064 302065

Parameter	Units	3046873016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	18.7	20.0	94	100	70-130	6	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	21.9	26.2	110	131	70-130	18	M0
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	21.7	23.2	108	116	70-130	7	
1,1-Dichloroethane	ug/L	1.0 U	20	20	19.4	22.6	97	113	70-130	15	
1,1-Dichloroethene	ug/L	1.0 U	20	20	17.4	20.2	87	101	70-130	15	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.0	20.7	95	104	70-130	9	
1,2-Dichloroethane	ug/L	1.0 U	20	20	16.3	17.8	81	89	70-130	9	
1,2-Dichloropropane	ug/L	1.0 U	20	20	21.6	24.8	108	124	70-130	14	
1,3-Dichlorobenzene	ug/L	1.0 U	20	20	18.5	20.4	93	102	70-130	10	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	18.9	20.6	95	103	70-130	8	
2-Butanone (MEK)	ug/L	10.0 U	20	20	19.4	22.2	97	111	70-130	14	
2-Hexanone	ug/L	10.0 U	20	20	22.0	25.3	110	127	70-130	14	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	21.0	24.2	105	121	70-130	14	
Acetone	ug/L	4.4J	20	20	20.6	22.5	81	91	70-130	9	
Benzene	ug/L	1.0 U	20	20	22.3	25.0	111	125	70-130	11	
Bromodichloromethane	ug/L	1.0 U	20	20	17.6	19.5	88	97	70-130	10	
Bromoform	ug/L	1.0 U	20	20	18.1	19.2	90	96	70-130	6	
Bromomethane	ug/L	1.0 U	20	20	30.4	34.1	152	171	70-130	12	M0
Carbon disulfide	ug/L	1.0 U	20	20	17.8	17.8	89	89	70-130	.1	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.8	18.9	89	94	70-130	6	
Chlorobenzene	ug/L	0.35J	20	20	21.1	23.1	104	114	70-130	9	
Chloroethane	ug/L	1.0 U	20	20	15.5	20.7	78	104	70-130	29	
Chloroform	ug/L	1.0 U	20	20	17.7	19.6	89	98	70-130	10	
Chloromethane	ug/L	1.0 U	20	20	17.5	23.2	87	116	70-130	28	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.2	21.6	96	108	70-130	12	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	21.0	23.5	105	117	70-130	11	
Dibromochloromethane	ug/L	1.0 U	20	20	18.4	19.3	92	96	70-130	5	
Ethylbenzene	ug/L	1.0 U	20	20	21.6	24.2	108	121	70-130	11	
Isopropylbenzene (Cumene)	ug/L	3.4	20	20	24.6	27.5	106	121	70-130	11	
m&p-Xylene	ug/L	0.98J	40	40	45.4	49.9	111	122	70-130	9	
Methylene Chloride	ug/L	1.0 U	20	20	15.5	18.1	76	90	70-130	16	
o-Xylene	ug/L	3.9	20	20	25.8	28.7	110	124	70-130	11	
Styrene	ug/L	1.0 U	20	20	21.0	22.3	105	111	70-130	6	
Tetrachloroethene	ug/L	1.0 U	20	20	20.3	21.5	101	107	70-130	6	
Toluene	ug/L	1.0 U	20	20	22.1	24.7	110	124	70-130	11	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	18.2	20.8	91	104	70-130	13	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	18.1	19.9	90	100	70-130	10	
Trichloroethene	ug/L	1.0 U	20	20	20.7	22.4	103	112	70-130	8	
Trichlorofluoromethane	ug/L		20	20	16.2	19.3	81	97	70-130	18	
Vinyl chloride	ug/L	1.0 U	20	20	18.1	23.6	91	118	70-130	26	
1,2-Dichloroethane-d4 (S)	%						80	87	70-130		
4-Bromofluorobenzene (S)	%						96	96	70-130		
Toluene-d8 (S)	%						103	106	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope
Pace Project No.: 3046913

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope
Pace Project No.: 3046913

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3046913001	**PRE-CARB**	EPA 8260	MSV/9399		
3046913002	**PRIMARY-EFF**	EPA 8260	MSV/9399		
3046913003	**POST-CARB**	EPA 8260	MSV/9399		
3046913004	**TB-01**	EPA 8260	MSV/9399		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1489738

Section A Required Client Information:

Company: URS CORP
Address: 501 HOLIDAY DR FOSTER PLAZA 4, STE. 300 PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41560904
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41560904.10000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: NY

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			5.18.11	1100		3				X					X	X		001
2	PRIMARY-EFF						1105		3				X					X	X		002
3	POST-CARB						1110		3				X					X	X		003
4	POST-CARB						1140		3				X					X	X		
5	POST-CARB						1210		3				X					X	X		
6	POST-CARB						1240		3				X					X	X		
7	TB-01	WT	G			5.18.11			2				X					X	X		004
8																					
9																					
10																					
11																					
12																					

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COMPOSITE FOUR (4)	Valerie Sibeto/URS	5.18.11	1310	Fed Ex Air	5.18.11	1310				
POST-CARB SAMPLES IN LAB				[signature]	5/19	1000	5.3	Y	N	Y
AND REPORT AS										
POST-CARB COMPOSITE										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5.18.11

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30416913

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 867255381050

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: (3) 5 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature: 5.3 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: LEL 5/19/11

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: AQ		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed: LEL Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 5-20-1

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 01, 2011

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

RE: Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3049268

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on June 28, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

This report was reissued on August 1, 2011 to include Cumene results.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3049268

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3049268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3049268001	**PRE-CARB**	EPA 8260	JAS	43	PASI-PA
3049268002	**PRIMARY EFF**	EPA 8260	JAS	43	PASI-PA
3049268003	**POST CARB**	EPA 8260	JAS	43	PASI-PA
3049268004	**TB-01**	EPA 8260	JAS	43	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3049268

Sample: PRE-CARB **Lab ID: 3049268001** Collected: 06/27/11 12:05 Received: 06/28/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		07/05/11 17:19	67-64-1	
Benzene	**8.3**	ug/L	1.0	1		07/05/11 17:19	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/05/11 17:19	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/05/11 17:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/05/11 17:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/05/11 17:19	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/05/11 17:19	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/05/11 17:19	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/05/11 17:19	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/05/11 17:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/05/11 17:19	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/05/11 17:19	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/05/11 17:19	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 17:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 17:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 17:19	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/05/11 17:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/05/11 17:19	107-06-2	
1,1-Dichloroethene	**20.0**	ug/L	5.0	1		07/05/11 17:19	75-35-4	
cis-1,2-Dichloroethene	**5230**	ug/L	200	40		07/06/11 12:07	156-59-2	
trans-1,2-Dichloroethene	**73.7**	ug/L	5.0	1		07/05/11 17:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/05/11 17:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/05/11 17:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/05/11 17:19	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/05/11 17:19	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/05/11 17:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/05/11 17:19	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/05/11 17:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/05/11 17:19	108-10-1	
Styrene	ND	ug/L	5.0	1		07/05/11 17:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/05/11 17:19	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/05/11 17:19	127-18-4	
Toluene	ND	ug/L	5.0	1		07/05/11 17:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/05/11 17:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/05/11 17:19	79-00-5	
Trichloroethene	**1620**	ug/L	200	40		07/06/11 12:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/05/11 17:19	75-69-4	
Vinyl chloride	**673**	ug/L	40.0	40		07/06/11 12:07	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/05/11 17:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/05/11 17:19	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		07/05/11 17:19	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		07/05/11 17:19	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		07/05/11 17:19	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3049268

Sample: PRIMARY EFF **Lab ID: 3049268002** Collected: 06/27/11 12:10 Received: 06/28/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		07/05/11 17:46	67-64-1	
Benzene	ND	ug/L	1.0	1		07/05/11 17:46	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/05/11 17:46	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/05/11 17:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/05/11 17:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/05/11 17:46	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/05/11 17:46	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/05/11 17:46	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/05/11 17:46	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/05/11 17:46	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/05/11 17:46	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/05/11 17:46	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/05/11 17:46	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 17:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 17:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 17:46	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/05/11 17:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/05/11 17:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/05/11 17:46	75-35-4	
cis-1,2-Dichloroethene	**24.6**	ug/L	5.0	1		07/05/11 17:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/05/11 17:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/05/11 17:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/05/11 17:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/05/11 17:46	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/05/11 17:46	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/05/11 17:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/05/11 17:46	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/05/11 17:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/05/11 17:46	108-10-1	
Styrene	ND	ug/L	5.0	1		07/05/11 17:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/05/11 17:46	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/05/11 17:46	127-18-4	
Toluene	ND	ug/L	5.0	1		07/05/11 17:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/05/11 17:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/05/11 17:46	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/05/11 17:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/05/11 17:46	75-69-4	
Vinyl chloride	**777**	ug/L	10.0	10		07/06/11 12:33	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/05/11 17:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/05/11 17:46	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		07/05/11 17:46	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		07/05/11 17:46	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		07/05/11 17:46	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3049268

Sample: POST CARB **Lab ID: 3049268003** Collected: 06/27/11 13:45 Received: 06/28/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		07/05/11 18:12	67-64-1	
Benzene	ND	ug/L	1.0	1		07/05/11 18:12	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/05/11 18:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/05/11 18:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/05/11 18:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/05/11 18:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/05/11 18:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/05/11 18:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/05/11 18:12	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/05/11 18:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/05/11 18:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/05/11 18:12	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/05/11 18:12	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 18:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 18:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 18:12	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/05/11 18:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/05/11 18:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/05/11 18:12	75-35-4	
cis-1,2-Dichloroethene	**131**	ug/L	5.0	1		07/05/11 18:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/05/11 18:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/05/11 18:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/05/11 18:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/05/11 18:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/05/11 18:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/05/11 18:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/05/11 18:12	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/05/11 18:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/05/11 18:12	108-10-1	
Styrene	ND	ug/L	5.0	1		07/05/11 18:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/05/11 18:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/05/11 18:12	127-18-4	
Toluene	ND	ug/L	5.0	1		07/05/11 18:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/05/11 18:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/05/11 18:12	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/05/11 18:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/05/11 18:12	75-69-4	
Vinyl chloride	**17.9**	ug/L	1.0	1		07/05/11 18:12	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/05/11 18:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/05/11 18:12	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		07/05/11 18:12	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		07/05/11 18:12	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		07/05/11 18:12	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3049268

Sample: TB-01 **Lab ID: 3049268004** Collected: 06/27/11 00:01 Received: 06/28/11 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		07/05/11 15:09	67-64-1	
Benzene	ND	ug/L	1.0	1		07/05/11 15:09	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/05/11 15:09	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/05/11 15:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/05/11 15:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/05/11 15:09	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/05/11 15:09	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/05/11 15:09	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/05/11 15:09	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/05/11 15:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/05/11 15:09	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/05/11 15:09	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/05/11 15:09	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 15:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 15:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 15:09	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/05/11 15:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/05/11 15:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/05/11 15:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/05/11 15:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/05/11 15:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/05/11 15:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/05/11 15:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/05/11 15:09	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/05/11 15:09	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/05/11 15:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/05/11 15:09	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/05/11 15:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/05/11 15:09	108-10-1	
Styrene	ND	ug/L	5.0	1		07/05/11 15:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/05/11 15:09	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/05/11 15:09	127-18-4	
Toluene	ND	ug/L	5.0	1		07/05/11 15:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/05/11 15:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/05/11 15:09	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/05/11 15:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/05/11 15:09	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		07/05/11 15:09	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/05/11 15:09	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/05/11 15:09	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		07/05/11 15:09	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		07/05/11 15:09	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		07/05/11 15:09	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3049268

QC Batch: MSV/9782 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3049268001, 3049268002, 3049268003, 3049268004

METHOD BLANK: 317229 Matrix: Water
Associated Lab Samples: 3049268001, 3049268002, 3049268003, 3049268004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/05/11 14:43	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/05/11 14:43	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/05/11 14:43	
1,1-Dichloroethane	ug/L	ND	5.0	07/05/11 14:43	
1,1-Dichloroethene	ug/L	ND	5.0	07/05/11 14:43	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/05/11 14:43	
1,2-Dichloroethane	ug/L	ND	5.0	07/05/11 14:43	
1,2-Dichloropropane	ug/L	ND	5.0	07/05/11 14:43	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/05/11 14:43	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/05/11 14:43	
2-Butanone (MEK)	ug/L	ND	10.0	07/05/11 14:43	
2-Hexanone	ug/L	ND	10.0	07/05/11 14:43	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/05/11 14:43	
Acetone	ug/L	ND	10.0	07/05/11 14:43	
Benzene	ug/L	ND	1.0	07/05/11 14:43	
Bromodichloromethane	ug/L	ND	5.0	07/05/11 14:43	
Bromoform	ug/L	ND	5.0	07/05/11 14:43	
Bromomethane	ug/L	ND	5.0	07/05/11 14:43	
Carbon disulfide	ug/L	ND	5.0	07/05/11 14:43	
Carbon tetrachloride	ug/L	ND	5.0	07/05/11 14:43	
Chlorobenzene	ug/L	ND	5.0	07/05/11 14:43	
Chloroethane	ug/L	ND	5.0	07/05/11 14:43	
Chloroform	ug/L	ND	5.0	07/05/11 14:43	
Chloromethane	ug/L	ND	5.0	07/05/11 14:43	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/05/11 14:43	
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/05/11 14:43	
Dibromochloromethane	ug/L	ND	5.0	07/05/11 14:43	
Ethylbenzene	ug/L	ND	5.0	07/05/11 14:43	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/05/11 14:43	
m&p-Xylene	ug/L	ND	5.0	07/05/11 14:43	
Methylene Chloride	ug/L	ND	5.0	07/05/11 14:43	
o-Xylene	ug/L	ND	5.0	07/05/11 14:43	
Styrene	ug/L	ND	5.0	07/05/11 14:43	
Tetrachloroethene	ug/L	ND	5.0	07/05/11 14:43	
Toluene	ug/L	ND	5.0	07/05/11 14:43	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/05/11 14:43	
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/05/11 14:43	
Trichloroethene	ug/L	ND	5.0	07/05/11 14:43	
Trichlorofluoromethane	ug/L	ND	5.0	07/05/11 14:43	
Vinyl chloride	ug/L	ND	1.0	07/05/11 14:43	
1,2-Dichloroethane-d4 (S)	%	103	70-130	07/05/11 14:43	
4-Bromofluorobenzene (S)	%	98	70-130	07/05/11 14:43	
Toluene-d8 (S)	%	95	70-130	07/05/11 14:43	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3049268

LABORATORY CONTROL SAMPLE: 317230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.9	104	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	20.6	103	64.6-121	
1,1,2-Trichloroethane	ug/L	20	19.5	98	75.6-120	
1,1-Dichloroethane	ug/L	20	19.9	100	68.5-122	
1,1-Dichloroethene	ug/L	20	19.0	95	57.1-120	
1,2-Dichlorobenzene	ug/L	20	20.4	102	69.6-120	
1,2-Dichloroethane	ug/L	20	20.0	100	60.5-133	
1,2-Dichloropropane	ug/L	20	19.0	95	71-120	
1,3-Dichlorobenzene	ug/L	20	19.8	99	68.4-121	
1,4-Dichlorobenzene	ug/L	20	21.0	105	68.5-123	
2-Butanone (MEK)	ug/L	20	22.1	111	55.7-138	
2-Hexanone	ug/L	20	17.9	90	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.0	95	64.5-121	
Acetone	ug/L	20	23.5	117	70-130	
Benzene	ug/L	20	20.0	100	69.8-120	
Bromodichloromethane	ug/L	20	18.9	94	66.5-120	
Bromoform	ug/L	20	18.2	91	61.1-120	
Bromomethane	ug/L	20	32.8	164	10.6-240	L3
Carbon disulfide	ug/L	20	21.0	105	60.2-122	
Carbon tetrachloride	ug/L	20	19.1	96	60.1-127	
Chlorobenzene	ug/L	20	19.4	97	70-130	
Chloroethane	ug/L	20	19.0	95	36.8-142	
Chloroform	ug/L	20	20.1	101	70-130	
Chloromethane	ug/L	20	15.2	76	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	19.7	98	74.3-120	
Dibromochloromethane	ug/L	20	19.1	95	66.1-120	
Ethylbenzene	ug/L	20	19.2	96	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	20.6	103	68.3-129	
m&p-Xylene	ug/L	40	41.3	103	70.4-130	
Methylene Chloride	ug/L	20	18.7	94	70-130	
o-Xylene	ug/L	20	20.0	100	70.6-127	
Styrene	ug/L	20	17.6	88	69.9-120	
Tetrachloroethene	ug/L	20	20.1	100	63.4-121	
Toluene	ug/L	20	19.9	99	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	19.4	97	71-120	
Trichloroethene	ug/L	20	18.5	93	65.9-120	
Trichlorofluoromethane	ug/L	20	20.9	105	44.8-137	
Vinyl chloride	ug/L	20	17.9	89	51-127	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			95	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3049268

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 317238 317239

Parameter	Units	3049285001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	22.0	21.9	110	110	70-130	.4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.1	18.9	96	94	70-130	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.5	18.8	93	94	70-130	2	
1,1-Dichloroethane	ug/L	ND	20	20	20.1	20.4	101	102	70-130	1	
1,1-Dichloroethene	ug/L	ND	20	20	20.3	20.1	101	101	70-130	.7	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.8	19.5	99	98	70-130	1	
1,2-Dichloroethane	ug/L	ND	20	20	19.8	19.6	99	98	70-130	.9	
1,2-Dichloropropane	ug/L	ND	20	20	18.3	19.2	92	96	70-130	4	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.0	19.3	100	97	70-130	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.7	19.3	99	96	70-130	2	
2-Butanone (MEK)	ug/L	ND	20	20	19.9	21.7	100	108	70-130	8	
2-Hexanone	ug/L	ND	20	20	16.8	17.7	84	89	70-130	5	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.9	19.2	89	96	70-130	7	
Acetone	ug/L	ND	20	20	17.0	20.0	85	100	70-130	17	
Benzene	ug/L	ND	20	20	19.6	20.0	96	98	70-130	2	
Bromodichloromethane	ug/L	ND	20	20	17.4	17.7	87	89	70-130	2	
Bromoform	ug/L	ND	20	20	16.6	17.5	83	87	70-130	5	
Bromomethane	ug/L	ND	20	20	22.2	25.1	111	125	70-130	12	
Carbon disulfide	ug/L	ND	20	20	19.1	19.2	95	96	70-130	.3	
Carbon tetrachloride	ug/L	ND	20	20	20.8	20.5	104	103	70-130	1	
Chlorobenzene	ug/L	ND	20	20	19.1	19.4	95	97	70-130	2	
Chloroethane	ug/L	ND	20	20	20.5	21.4	103	107	70-130	4	
Chloroform	ug/L	ND	20	20	20.4	20.0	102	100	70-130	2	
Chloromethane	ug/L	ND	20	20	14.9	15.7	74	78	70-130	5	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.2	20.2	100	100	70-130	.4	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.4	18.8	92	94	70-130	2	
Dibromochloromethane	ug/L	ND	20	20	17.2	17.7	86	89	70-130	3	
Ethylbenzene	ug/L	ND	20	20	20.4	19.6	102	98	70-130	4	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.3	20.4	106	102	70-130	4	
m&p-Xylene	ug/L	ND	40	40	42.1	41.0	105	102	70-130	3	
Methylene Chloride	ug/L	ND	20	20	18.4	18.7	92	93	70-130	1	
o-Xylene	ug/L	ND	20	20	20.4	20.2	102	101	70-130	1	
Styrene	ug/L	ND	20	20	17.4	17.7	87	89	70-130	2	
Tetrachloroethene	ug/L	ND	20	20	20.8	20.5	104	103	70-130	2	
Toluene	ug/L	ND	20	20	19.6	19.9	98	100	70-130	2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.9	19.7	99	98	70-130	.9	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.4	18.4	92	92	70-130	.05	
Trichloroethene	ug/L	ND	20	20	18.6	19.8	93	99	70-130	6	
Trichlorofluoromethane	ug/L	ND	20	20	24.4	23.4	122	117	70-130	4	
Vinyl chloride	ug/L	ND	20	20	19.6	19.3	98	97	70-130	1	
1,2-Dichloroethane-d4 (S)	%						105	101	70-130		
4-Bromofluorobenzene (S)	%						99	102	70-130		
Toluene-d8 (S)	%						93	96	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3049268

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3049268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3049268001	**PRE-CARB**	EPA 8260	MSV/9782		
3049268002	**PRIMARY EFF**	EPA 8260	MSV/9782		
3049268003	**POST CARB**	EPA 8260	MSV/9782		
3049268004	**TB-01**	EPA 8260	MSV/9782		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1483999

Section A Required Client Information:

Company: URS CORP
Address: 501 HOLIDAY DR. FOUNTAIN PLAZA 4, STE. 310 PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MACK DOWIAK
Copy To: VALERIE SIBERT
Purchase Order No.: 41528904
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41528904, 10000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: NY

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			6/27/11	1205		3				X					X		001
2	PRIMARY-EFF						1210		3				X					X		002
3	POST-CARB1						1215		3				X					X		003
4	POST-CARB						1245		3				X					X		
5	POST-CARB						1315		3				X					X		
6	POST-CARB						1345		3				X					X		
7	TB-01	WT	G			6/29/11	—		2				X					X		004
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FROM (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE	Valerie Sibert URS	6/27/11	1530	Fed Ex Pace	6/28/11	1000	1.9	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBERT
SIGNATURE of SAMPLER: Valerie Sibert
DATE Signed (MM/DD/YY): 6/27/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30492e8

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8607255381072

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 3 (5) Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.9 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 1/28/11

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed RM / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 1/29/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 09, 2011

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

RE: Project: Essex/Hope Jamestown
Pace Project No.: 3051124

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on July 30, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex/Hope Jamestown
Pace Project No.: 3051124

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Essex/Hope Jamestown
Pace Project No.: 3051124

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3051124001	**PRE-CARB**	EPA 8260	MAK	43	PASI-PA
3051124002	**PRIMARY-EFF**	EPA 8260	MAK	43	PASI-PA
3051124003	**POST-CARB**	EPA 8260	MAK	43	PASI-PA
3051124004	**TB-01**	EPA 8260	MAK	43	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3051124

Sample: PRE-CARB **Lab ID: 3051124001** Collected: 07/29/11 09:30 Received: 07/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**16300**	ug/L	1000	100		08/05/11 14:09	67-64-1	
Benzene	**32.8**	ug/L	1.0	1		08/04/11 18:24	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/04/11 18:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/04/11 18:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/04/11 18:24	74-83-9	
2-Butanone (MEK)	**84.4**	ug/L	10.0	1		08/04/11 18:24	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		08/04/11 18:24	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/04/11 18:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/04/11 18:24	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/04/11 18:24	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/04/11 18:24	67-66-3	
Chloromethane	**9.2**	ug/L	5.0	1		08/04/11 18:24	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		08/04/11 18:24	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/04/11 18:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/04/11 18:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/04/11 18:24	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/04/11 18:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/04/11 18:24	107-06-2	
1,1-Dichloroethene	**29.4**	ug/L	5.0	1		08/04/11 18:24	75-35-4	
cis-1,2-Dichloroethene	**8500**	ug/L	200	40		08/04/11 18:49	156-59-2	
trans-1,2-Dichloroethene	**97.0**	ug/L	5.0	1		08/04/11 18:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/04/11 18:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/04/11 18:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/04/11 18:24	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/04/11 18:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		08/04/11 18:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/04/11 18:24	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		08/04/11 18:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		08/04/11 18:24	108-10-1	
Styrene	ND	ug/L	5.0	1		08/04/11 18:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/04/11 18:24	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/04/11 18:24	127-18-4	
Toluene	ND	ug/L	5.0	1		08/04/11 18:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/04/11 18:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/04/11 18:24	79-00-5	
Trichloroethene	**4820**	ug/L	200	40		08/04/11 18:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/04/11 18:24	75-69-4	
Vinyl chloride	**1110**	ug/L	40.0	40		08/04/11 18:49	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		08/04/11 18:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		08/04/11 18:24	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		08/04/11 18:24	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		08/04/11 18:24	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		08/04/11 18:24	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3051124

Sample: PRIMARY-EFF **Lab ID: 3051124002** Collected: 07/29/11 09:30 Received: 07/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**4850**	ug/L	400	40		08/04/11 19:37	67-64-1	
Benzene	ND	ug/L	1.0	1		08/04/11 19:13	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/04/11 19:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/04/11 19:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/04/11 19:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		08/04/11 19:13	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		08/04/11 19:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/04/11 19:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/04/11 19:13	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/04/11 19:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/04/11 19:13	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/04/11 19:13	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		08/04/11 19:13	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/04/11 19:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/04/11 19:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/04/11 19:13	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/04/11 19:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/04/11 19:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/04/11 19:13	75-35-4	
cis-1,2-Dichloroethene	**293**	ug/L	5.0	1		08/04/11 19:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/04/11 19:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/04/11 19:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/04/11 19:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/04/11 19:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/04/11 19:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		08/04/11 19:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/04/11 19:13	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		08/04/11 19:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		08/04/11 19:13	108-10-1	
Styrene	ND	ug/L	5.0	1		08/04/11 19:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/04/11 19:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/04/11 19:13	127-18-4	
Toluene	ND	ug/L	5.0	1		08/04/11 19:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/04/11 19:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/04/11 19:13	79-00-5	
Trichloroethene	**8.5**	ug/L	5.0	1		08/04/11 19:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/04/11 19:13	75-69-4	
Vinyl chloride	**274**	ug/L	1.0	1		08/04/11 19:13	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		08/04/11 19:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		08/04/11 19:13	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		08/04/11 19:13	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		08/04/11 19:13	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		08/04/11 19:13	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3051124

Sample: POST-CARB **Lab ID: 3051124003** Collected: 07/29/11 09:35 Received: 07/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**3660**	ug/L	100	10		08/04/11 20:26	67-64-1	
Benzene	ND	ug/L	1.0	1		08/04/11 20:02	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/04/11 20:02	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/04/11 20:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/04/11 20:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		08/04/11 20:02	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		08/04/11 20:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/04/11 20:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/04/11 20:02	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/04/11 20:02	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/04/11 20:02	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/04/11 20:02	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		08/04/11 20:02	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/04/11 20:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/04/11 20:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/04/11 20:02	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/04/11 20:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/04/11 20:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/04/11 20:02	75-35-4	
cis-1,2-Dichloroethene	**50.5**	ug/L	5.0	1		08/04/11 20:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/04/11 20:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/04/11 20:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/04/11 20:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/04/11 20:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/04/11 20:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		08/04/11 20:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/04/11 20:02	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		08/04/11 20:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		08/04/11 20:02	108-10-1	
Styrene	ND	ug/L	5.0	1		08/04/11 20:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/04/11 20:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/04/11 20:02	127-18-4	
Toluene	ND	ug/L	5.0	1		08/04/11 20:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/04/11 20:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/04/11 20:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/04/11 20:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/04/11 20:02	75-69-4	
Vinyl chloride	**107**	ug/L	1.0	1		08/04/11 20:02	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		08/04/11 20:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		08/04/11 20:02	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		08/04/11 20:02	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		08/04/11 20:02	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		08/04/11 20:02	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3051124

Sample: TB-01 **Lab ID: 3051124004** Collected: 07/29/11 00:01 Received: 07/30/11 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**11.0**	ug/L	10.0	1		08/04/11 17:35	67-64-1	
Benzene	ND	ug/L	1.0	1		08/04/11 17:35	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/04/11 17:35	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/04/11 17:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/04/11 17:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		08/04/11 17:35	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		08/04/11 17:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/04/11 17:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/04/11 17:35	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/04/11 17:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/04/11 17:35	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/04/11 17:35	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		08/04/11 17:35	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/04/11 17:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/04/11 17:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/04/11 17:35	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/04/11 17:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/04/11 17:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/04/11 17:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/04/11 17:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/04/11 17:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/04/11 17:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/04/11 17:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/04/11 17:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/04/11 17:35	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		08/04/11 17:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/04/11 17:35	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		08/04/11 17:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		08/04/11 17:35	108-10-1	
Styrene	ND	ug/L	5.0	1		08/04/11 17:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/04/11 17:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/04/11 17:35	127-18-4	
Toluene	ND	ug/L	5.0	1		08/04/11 17:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/04/11 17:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/04/11 17:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/04/11 17:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/04/11 17:35	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		08/04/11 17:35	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		08/04/11 17:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		08/04/11 17:35	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		08/04/11 17:35	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		08/04/11 17:35	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		08/04/11 17:35	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex/Hope Jamestown
Pace Project No.: 3051124

QC Batch: MSV/10101 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3051124001, 3051124002, 3051124003, 3051124004

METHOD BLANK: 328063 Matrix: Water
Associated Lab Samples: 3051124001, 3051124002, 3051124003, 3051124004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	08/04/11 11:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	08/04/11 11:06	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/04/11 11:06	
1,1-Dichloroethane	ug/L	ND	5.0	08/04/11 11:06	
1,1-Dichloroethene	ug/L	ND	5.0	08/04/11 11:06	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/04/11 11:06	
1,2-Dichloroethane	ug/L	ND	5.0	08/04/11 11:06	
1,2-Dichloropropane	ug/L	ND	5.0	08/04/11 11:06	
1,3-Dichlorobenzene	ug/L	ND	5.0	08/04/11 11:06	
1,4-Dichlorobenzene	ug/L	ND	5.0	08/04/11 11:06	
2-Butanone (MEK)	ug/L	ND	10.0	08/04/11 11:06	
2-Hexanone	ug/L	ND	10.0	08/04/11 11:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	08/04/11 11:06	
Acetone	ug/L	ND	10.0	08/04/11 11:06	
Benzene	ug/L	ND	1.0	08/04/11 11:06	
Bromodichloromethane	ug/L	ND	5.0	08/04/11 11:06	
Bromoform	ug/L	ND	5.0	08/04/11 11:06	
Bromomethane	ug/L	ND	5.0	08/04/11 11:06	
Carbon disulfide	ug/L	ND	5.0	08/04/11 11:06	
Carbon tetrachloride	ug/L	ND	5.0	08/04/11 11:06	
Chlorobenzene	ug/L	ND	5.0	08/04/11 11:06	
Chloroethane	ug/L	ND	5.0	08/04/11 11:06	
Chloroform	ug/L	ND	5.0	08/04/11 11:06	
Chloromethane	ug/L	ND	5.0	08/04/11 11:06	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/04/11 11:06	
cis-1,3-Dichloropropene	ug/L	ND	5.0	08/04/11 11:06	
Dibromochloromethane	ug/L	ND	5.0	08/04/11 11:06	
Ethylbenzene	ug/L	ND	5.0	08/04/11 11:06	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/04/11 11:06	
m&p-Xylene	ug/L	ND	5.0	08/04/11 11:06	
Methylene Chloride	ug/L	ND	5.0	08/04/11 11:06	
o-Xylene	ug/L	ND	5.0	08/04/11 11:06	
Styrene	ug/L	ND	5.0	08/04/11 11:06	
Tetrachloroethene	ug/L	ND	5.0	08/04/11 11:06	
Toluene	ug/L	ND	5.0	08/04/11 11:06	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/04/11 11:06	
trans-1,3-Dichloropropene	ug/L	ND	5.0	08/04/11 11:06	
Trichloroethene	ug/L	ND	5.0	08/04/11 11:06	
Trichlorofluoromethane	ug/L	ND	5.0	08/04/11 11:06	
Vinyl chloride	ug/L	ND	1.0	08/04/11 11:06	
1,2-Dichloroethane-d4 (S)	%	95	70-130	08/04/11 11:06	
4-Bromofluorobenzene (S)	%	95	70-130	08/04/11 11:06	
Toluene-d8 (S)	%	97	70-130	08/04/11 11:06	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex/Hope Jamestown
Pace Project No.: 3051124

LABORATORY CONTROL SAMPLE: 328064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.6	103	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	17.0	85	64.6-121	
1,1,2-Trichloroethane	ug/L	20	18.2	91	75.6-120	
1,1-Dichloroethane	ug/L	20	19.3	97	68.5-122	
1,1-Dichloroethene	ug/L	20	18.8	94	57.1-120	
1,2-Dichlorobenzene	ug/L	20	19.4	97	69.6-120	
1,2-Dichloroethane	ug/L	20	20.9	105	60.5-133	
1,2-Dichloropropane	ug/L	20	17.3	87	71-120	
1,3-Dichlorobenzene	ug/L	20	18.8	94	68.4-121	
1,4-Dichlorobenzene	ug/L	20	18.7	94	68.5-123	
2-Butanone (MEK)	ug/L	20	24.8	124	55.7-138	
2-Hexanone	ug/L	20	23.8	119	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.4	102	64.5-121	
Acetone	ug/L	20	26.3	132	57.6-168	
Benzene	ug/L	20	18.7	94	69.8-120	
Bromodichloromethane	ug/L	20	18.0	90	66.5-120	
Bromoform	ug/L	20	17.6	88	61.1-120	
Bromomethane	ug/L	20	30.4	152	10.6-240	
Carbon disulfide	ug/L	20	19.8	99	60.2-122	
Carbon tetrachloride	ug/L	20	19.3	97	60.1-127	
Chlorobenzene	ug/L	20	18.8	94	72-120	
Chloroethane	ug/L	20	16.7	84	36.8-142	
Chloroform	ug/L	20	20.3	102	69-122	
Chloromethane	ug/L	20	12.7	64	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	74.3-120	
Dibromochloromethane	ug/L	20	18.8	94	66.1-120	
Ethylbenzene	ug/L	20	18.9	95	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	19.2	96	68.3-129	
m&p-Xylene	ug/L	40	40.6	102	70.4-130	
Methylene Chloride	ug/L	20	18.0	90	61.5-125	
o-Xylene	ug/L	20	19.8	99	70.6-127	
Styrene	ug/L	20	19.8	99	69.9-120	
Tetrachloroethene	ug/L	20	17.3	86	63.4-121	
Toluene	ug/L	20	19.0	95	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	19.4	97	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	17.8	89	71-120	
Trichloroethene	ug/L	20	17.3	86	65.9-120	
Trichlorofluoromethane	ug/L	20	17.8	89	44.8-137	
Vinyl chloride	ug/L	20	15.8	79	51-127	
1,2-Dichloroethane-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			98	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex/Hope Jamestown
Pace Project No.: 3051124

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 328699 328700

Parameter	Units	3051303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	23.0	19.5	115	97	70-130	17	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.6	17.9	98	90	70-130	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.5	18.7	102	93	70-130	9	
1,1-Dichloroethane	ug/L	ND	20	20	20.7	18.2	103	91	70-130	13	
1,1-Dichloroethene	ug/L	ND	20	20	21.0	18.6	105	93	70-130	12	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.7	18.1	102	89	70-130	13	
1,2-Dichloroethane	ug/L	ND	20	20	21.3	18.0	107	90	70-130	17	
1,2-Dichloropropane	ug/L	ND	20	20	19.5	17.8	97	89	70-130	9	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.5	17.2	97	86	70-130	12	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.5	18.2	98	86	70-130	12	
2-Butanone (MEK)	ug/L	ND	20	20	19.0	17.7	87	81	70-130	7	
2-Hexanone	ug/L	ND	20	20	18.1	19.3	90	96	70-130	6	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	16.5	17.1	83	85	70-130	3	
Acetone	ug/L	358	20	20	270	254	-440	-517	70-130	6	M0
Benzene	ug/L	ND	20	20	21.3	19.5	107	97	70-130	9	
Bromodichloromethane	ug/L	11.0	20	20	31.4	29.1	102	90	70-130	8	
Bromoform	ug/L	3.2	20	20	23.4	22.2	101	95	70-130	5	
Bromomethane	ug/L	ND	20	20	23.3	24.7	116	123	70-130	6	
Carbon disulfide	ug/L	ND	20	20	19.0	14.5	95	72	70-130	27	
Carbon tetrachloride	ug/L	ND	20	20	23.0	21.0	115	105	70-130	9	
Chlorobenzene	ug/L	ND	20	20	20.7	18.7	104	93	70-130	10	
Chloroethane	ug/L	ND	20	20	17.6	16.5	88	83	70-130	7	
Chloroform	ug/L	9.1	20	20	30.4	26.5	107	87	70-130	14	
Chloromethane	ug/L	ND	20	20	12.8	12.3	64	61	70-130	4	M0
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.4	19.6	111	97	70-130	13	
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.5	19.3	107	97	70-130	11	
Dibromochloromethane	ug/L	11.6	20	20	33.6	31.5	110	99	70-130	6	
Ethylbenzene	ug/L	ND	20	20	21.1	18.3	106	91	70-130	15	
Isopropylbenzene (Cumene)	ug/L				20.6	17.9				14	
m&p-Xylene	ug/L	ND	40	40	44.4	39.1	111	98	70-130	13	
Methylene Chloride	ug/L	ND	20	20	18.5	16.2	92	80	70-130	13	
o-Xylene	ug/L	ND	20	20	21.6	19.2	108	96	70-130	12	
Styrene	ug/L	1.9	20	20	23.6	21.3	109	97	70-130	10	
Tetrachloroethene	ug/L	ND	20	20	20.5	18.3	103	92	70-130	11	
Toluene	ug/L	ND	20	20	25.0	22.2	112	98	70-130	12	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.1	17.9	105	90	70-130	16	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.0	18.0	100	90	70-130	10	
Trichloroethene	ug/L	ND	20	20	20.6	18.8	103	94	70-130	9	
Trichlorofluoromethane	ug/L				23.2	21.0				10	
Vinyl chloride	ug/L	ND	20	20	16.8	15.7	84	79	70-130	7	
1,2-Dichloroethane-d4 (S)	%						94	99	70-130		
4-Bromofluorobenzene (S)	%						98	101	70-130		
Toluene-d8 (S)	%						98	100	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex/Hope Jamestown
Pace Project No.: 3051124

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex/Hope Jamestown
Pace Project No.: 3051124

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3051124001	**PRE-CARB**	EPA 8260	MSV/10101		
3051124002	**PRIMARY-EFF**	EPA 8260	MSV/10101		
3051124003	**POST-CARB**	EPA 8260	MSV/10101		
3051124004	**TB-01**	EPA 8260	MSV/10101		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

136420

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 4, STE. 200 501 HOLIDAY DR, PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568904
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41568904.10000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Matrix Codes: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test ↓: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB		MTG				7-29-11	0925		3			X					X	X		001
2	PRIMARY-EFF							0930		3			X					X	X		002
3	POST-CARB							0935		3			X					X	X		003
4	POST-CARB							1005		3			X					X	X		"
5	POST-CARB							1035		3			X					X	X		"
6	POST-CARB							1105		3			X					X	X		"
7	TB-01						7-29-11	—		2			X						X		004
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR(4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE	[signature] URS	7.29.11	~1140	[signature]	7-29.11	~1140				
				[signature] Pace	7/30/11	1100	5.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7.29.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30511124

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 8107 2 5538 1109

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other _____

Thermometer Used 3 (5) Type of Ice: (Wet) Blue None [X] Samples on ice, cooling process has begun

Cooler Temperature 5.7 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: RES 7/30/11

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	[X] Yes [ ] No [ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes [ ] No [ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes [ ] No [ ] N/A	3.
Sampler Name & Signature on COC:	[X] Yes [ ] No [ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes [ ] No [ ] N/A	5.
Short Hold Time Analysis (<72hr):	[ ] Yes [X] No [ ] N/A	6.
Rush Turn Around Time Requested:	[ ] Yes [X] No [ ] N/A	7.
Sufficient Volume:	[X] Yes [ ] No [ ] N/A	8.
Correct Containers Used:	[X] Yes [ ] No [ ] N/A	9.
-Pace Containers Used:	[X] Yes [ ] No [ ] N/A	
Containers Intact:	[X] Yes [ ] No [ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes [ ] No [X] N/A	11.
Sample Labels match COC:	[X] Yes [ ] No [ ] N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	[ ] Yes [ ] No [X] N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ] Yes [ ] No [X] N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	[X] Yes [ ] No	Initial when completed RES / Lot # of added preservative
Samples checked for dechlorination:	[ ] Yes [ ] No [X] N/A	14.
Headspace in VOA Vials (>6mm):	[X] Yes [ ] No [ ] N/A	15. TB
Trip Blank Present:	[X] Yes [ ] No [ ] N/A	16.
Trip Blank Custody Seals Present	[X] Yes [ ] No [ ] N/A	RES 7/30/11
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rachel B. Chastner **Date:** 8/1/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

September 14, 2011

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

RE: Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3053059

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on September 01, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3053059

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3053059

Sample: PRE-CARB **Lab ID: 3053059001** Collected: 08/31/11 10:45 Received: 09/01/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/02/11 21:26	67-64-1	
Benzene	**6.1**	ug/L	1.0	1		09/02/11 21:26	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/02/11 21:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/02/11 21:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/02/11 21:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/02/11 21:26	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/02/11 21:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/02/11 21:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/02/11 21:26	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/02/11 21:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/02/11 21:26	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/02/11 21:26	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/02/11 21:26	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 21:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 21:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 21:26	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/02/11 21:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/02/11 21:26	107-06-2	
1,1-Dichloroethene	**14.4**	ug/L	5.0	1		09/02/11 21:26	75-35-4	
cis-1,2-Dichloroethene	**4550**	ug/L	200	40		09/02/11 21:51	156-59-2	
trans-1,2-Dichloroethene	**24.8**	ug/L	5.0	1		09/02/11 21:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/02/11 21:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 21:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 21:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/02/11 21:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/02/11 21:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/02/11 21:26	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/02/11 21:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/02/11 21:26	108-10-1	
Styrene	ND	ug/L	5.0	1		09/02/11 21:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/02/11 21:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/02/11 21:26	127-18-4	
Toluene	ND	ug/L	5.0	1		09/02/11 21:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/02/11 21:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/02/11 21:26	79-00-5	
Trichloroethene	**1790**	ug/L	200	40		09/02/11 21:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/02/11 21:26	75-69-4	
Vinyl chloride	**581**	ug/L	40.0	40		09/02/11 21:51	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/02/11 21:26	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/02/11 21:26	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130	1		09/02/11 21:26	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		09/02/11 21:26	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		09/02/11 21:26	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3053059

Sample: PRIMARY-EFF **Lab ID: 3053059002** Collected: 08/31/11 10:50 Received: 09/01/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**537**	ug/L	400	40		09/02/11 21:02	67-64-1	
Benzene	ND	ug/L	1.0	1		09/02/11 20:38	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/02/11 20:38	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/02/11 20:38	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/02/11 20:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/02/11 20:38	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/02/11 20:38	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/02/11 20:38	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/02/11 20:38	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/02/11 20:38	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/02/11 20:38	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/02/11 20:38	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/02/11 20:38	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 20:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 20:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 20:38	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/02/11 20:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/02/11 20:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/02/11 20:38	75-35-4	
cis-1,2-Dichloroethene	**70.9**	ug/L	5.0	1		09/02/11 20:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/02/11 20:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/02/11 20:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 20:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 20:38	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/02/11 20:38	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/02/11 20:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/02/11 20:38	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/02/11 20:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/02/11 20:38	108-10-1	
Styrene	ND	ug/L	5.0	1		09/02/11 20:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/02/11 20:38	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/02/11 20:38	127-18-4	
Toluene	ND	ug/L	5.0	1		09/02/11 20:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/02/11 20:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/02/11 20:38	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/02/11 20:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/02/11 20:38	75-69-4	
Vinyl chloride	**148**	ug/L	1.0	1		09/02/11 20:38	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/02/11 20:38	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/02/11 20:38	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		09/02/11 20:38	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		09/02/11 20:38	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/02/11 20:38	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3053059

Sample: POST-CARB **Lab ID: 3053059003** Collected: 08/31/11 10:55 Received: 09/01/11 10:30 Matrix: Water

Comments: • This sample was composited from 4 vials prior to analysis.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**2420**	ug/L	100	10		09/02/11 23:04	67-64-1	
Benzene	ND	ug/L	1.0	1		09/02/11 22:40	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/02/11 22:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/02/11 22:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/02/11 22:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/02/11 22:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/02/11 22:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/02/11 22:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/02/11 22:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/02/11 22:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/02/11 22:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/02/11 22:40	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/02/11 22:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 22:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 22:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 22:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/02/11 22:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/02/11 22:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/02/11 22:40	75-35-4	
cis-1,2-Dichloroethene	**17.3**	ug/L	5.0	1		09/02/11 22:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/02/11 22:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/02/11 22:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 22:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 22:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/02/11 22:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/02/11 22:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/02/11 22:40	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/02/11 22:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/02/11 22:40	108-10-1	
Styrene	ND	ug/L	5.0	1		09/02/11 22:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/02/11 22:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/02/11 22:40	127-18-4	
Toluene	ND	ug/L	5.0	1		09/02/11 22:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/02/11 22:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/02/11 22:40	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/02/11 22:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/02/11 22:40	75-69-4	
Vinyl chloride	**16.3**	ug/L	1.0	1		09/02/11 22:40	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/02/11 22:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/02/11 22:40	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		09/02/11 22:40	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		09/02/11 22:40	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		09/02/11 22:40	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3053059

Sample: TB-01 **Lab ID: 3053059004** Collected: 08/31/11 00:01 Received: 09/01/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/02/11 15:21	67-64-1	
Benzene	ND	ug/L	1.0	1		09/02/11 15:21	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/02/11 15:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/02/11 15:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/02/11 15:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/02/11 15:21	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/02/11 15:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/02/11 15:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/02/11 15:21	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/02/11 15:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/02/11 15:21	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/02/11 15:21	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/02/11 15:21	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 15:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 15:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 15:21	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/02/11 15:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/02/11 15:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/02/11 15:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/02/11 15:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/02/11 15:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/02/11 15:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 15:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 15:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/02/11 15:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/02/11 15:21	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/02/11 15:21	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/02/11 15:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/02/11 15:21	108-10-1	
Styrene	ND	ug/L	5.0	1		09/02/11 15:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/02/11 15:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/02/11 15:21	127-18-4	
Toluene	ND	ug/L	5.0	1		09/02/11 15:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/02/11 15:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/02/11 15:21	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/02/11 15:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/02/11 15:21	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		09/02/11 15:21	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/02/11 15:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/02/11 15:21	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130	1		09/02/11 15:21	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		09/02/11 15:21	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		09/02/11 15:21	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3053059

QC Batch: MSV/10364 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3053059001, 3053059002, 3053059003, 3053059004

METHOD BLANK: 338647 Matrix: Water
Associated Lab Samples: 3053059001, 3053059002, 3053059003, 3053059004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	09/02/11 12:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/02/11 12:55	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/02/11 12:55	
1,1-Dichloroethane	ug/L	ND	5.0	09/02/11 12:55	
1,1-Dichloroethene	ug/L	ND	5.0	09/02/11 12:55	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/02/11 12:55	
1,2-Dichloroethane	ug/L	ND	5.0	09/02/11 12:55	
1,2-Dichloropropane	ug/L	ND	5.0	09/02/11 12:55	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/02/11 12:55	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/02/11 12:55	
2-Butanone (MEK)	ug/L	ND	10.0	09/02/11 12:55	
2-Hexanone	ug/L	ND	10.0	09/02/11 12:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	09/02/11 12:55	
Acetone	ug/L	ND	10.0	09/02/11 12:55	
Benzene	ug/L	ND	1.0	09/02/11 12:55	
Bromodichloromethane	ug/L	ND	5.0	09/02/11 12:55	
Bromoform	ug/L	ND	5.0	09/02/11 12:55	
Bromomethane	ug/L	ND	5.0	09/02/11 12:55	
Carbon disulfide	ug/L	ND	5.0	09/02/11 12:55	
Carbon tetrachloride	ug/L	ND	5.0	09/02/11 12:55	
Chlorobenzene	ug/L	ND	5.0	09/02/11 12:55	
Chloroethane	ug/L	ND	5.0	09/02/11 12:55	
Chloroform	ug/L	ND	5.0	09/02/11 12:55	
Chloromethane	ug/L	ND	5.0	09/02/11 12:55	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/02/11 12:55	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/02/11 12:55	
Dibromochloromethane	ug/L	ND	5.0	09/02/11 12:55	
Ethylbenzene	ug/L	ND	5.0	09/02/11 12:55	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/02/11 12:55	
m&p-Xylene	ug/L	ND	5.0	09/02/11 12:55	
Methylene Chloride	ug/L	ND	5.0	09/02/11 12:55	
o-Xylene	ug/L	ND	5.0	09/02/11 12:55	
Styrene	ug/L	ND	5.0	09/02/11 12:55	
Tetrachloroethene	ug/L	ND	5.0	09/02/11 12:55	
Toluene	ug/L	ND	5.0	09/02/11 12:55	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/02/11 12:55	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/02/11 12:55	
Trichloroethene	ug/L	ND	5.0	09/02/11 12:55	
Trichlorofluoromethane	ug/L	ND	5.0	09/02/11 12:55	
Vinyl chloride	ug/L	ND	1.0	09/02/11 12:55	
1,2-Dichloroethane-d4 (S)	%	108	70-130	09/02/11 12:55	
4-Bromofluorobenzene (S)	%	98	70-130	09/02/11 12:55	
Toluene-d8 (S)	%	97	70-130	09/02/11 12:55	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3053059

LABORATORY CONTROL SAMPLE: 338648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	16.8	84	64.6-121	
1,1,2-Trichloroethane	ug/L	20	17.9	89	75.6-120	
1,1-Dichloroethane	ug/L	20	17.5	88	68.5-122	
1,1-Dichloroethene	ug/L	20	17.3	87	57.1-120	
1,2-Dichlorobenzene	ug/L	20	20.9	104	69.6-120	
1,2-Dichloroethane	ug/L	20	17.8	89	60.5-133	
1,2-Dichloropropane	ug/L	20	16.3	81	71-120	
1,3-Dichlorobenzene	ug/L	20	20.1	100	68.4-121	
1,4-Dichlorobenzene	ug/L	20	19.7	99	68.5-123	
2-Butanone (MEK)	ug/L	20	15.1	76	55.7-138	
2-Hexanone	ug/L	20	16.2	81	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	14.4	72	64.5-121	
Acetone	ug/L	20	16.9	85	57.6-168	
Benzene	ug/L	20	17.6	88	69.8-120	
Bromodichloromethane	ug/L	20	17.5	88	66.5-120	
Bromoform	ug/L	20	17.4	87	61.1-120	
Bromomethane	ug/L	20	27.0	135	10.6-240	
Carbon disulfide	ug/L	20	15.4	77	60.2-122	
Carbon tetrachloride	ug/L	20	19.7	99	60.1-127	
Chlorobenzene	ug/L	20	18.8	94	72-120	
Chloroethane	ug/L	20	16.1	81	36.8-142	
Chloroform	ug/L	20	18.8	94	69-122	
Chloromethane	ug/L	20	17.6	88	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	18.1	91	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	18.0	90	74.3-120	
Dibromochloromethane	ug/L	20	18.7	93	66.1-120	
Ethylbenzene	ug/L	20	18.9	94	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	20.5	102	68.3-129	
m&p-Xylene	ug/L	40	39.7	99	70.4-130	
Methylene Chloride	ug/L	20	15.4	77	61.5-125	
o-Xylene	ug/L	20	19.5	98	70.6-127	
Styrene	ug/L	20	19.2	96	69.9-120	
Tetrachloroethene	ug/L	20	18.6	93	63.4-121	
Toluene	ug/L	20	18.3	91	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	16.4	82	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	16.9	85	71-120	
Trichloroethene	ug/L	20	17.3	86	65.9-120	
Trichlorofluoromethane	ug/L	20	21.4	107	44.8-137	
Vinyl chloride	ug/L	20	19.0	95	51-127	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3053059

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 339368 339369

Parameter	Units	3052995001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	23.1	24.5	115	123	70-130	6	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	13.9	14.6	69	73	70-130	5	M0
1,1,2-Trichloroethane	ug/L	ND	20	20	15.9	16.4	79	82	70-130	3	
1,1-Dichloroethane	ug/L	ND	20	20	19.7	21.7	98	109	70-130	10	
1,1-Dichloroethene	ug/L	ND	20	20	20.9	22.5	104	112	70-130	7	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.1	18.1	85	91	70-130	6	
1,2-Dichloroethane	ug/L	ND	20	20	20.8	21.7	104	108	70-130	4	
1,2-Dichloropropane	ug/L	ND	20	20	15.2	15.6	76	78	70-130	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	16.6	17.8	83	89	70-130	7	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.5	17.4	83	87	70-130	5	
2-Butanone (MEK)	ug/L	ND	20	20	23.8	22.5	119	112	70-130	6	
2-Hexanone	ug/L	ND	20	20	20.5	19.8	103	99	70-130	4	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	18.5	18.2	92	91	70-130	1	
Acetone	ug/L	ND	20	20	29.3	25.1	116	95	70-130	15	
Benzene	ug/L	ND	20	20	15.5	17.0	78	85	70-130	9	
Bromodichloromethane	ug/L	ND	20	20	15.8	16.3	79	82	70-130	3	
Bromoform	ug/L	ND	20	20	14.8	14.0	74	70	70-130	6	
Bromomethane	ug/L	ND	20	20	30.1	32.2	150	161	70-130	7	M0
Carbon disulfide	ug/L	ND	20	20	18.3	22.4	91	112	70-130	20	
Carbon tetrachloride	ug/L	ND	20	20	17.7	18.1	88	91	70-130	2	
Chlorobenzene	ug/L	ND	20	20	16.8	17.3	84	87	70-130	3	
Chloroethane	ug/L	ND	20	20	22.3	20.4	109	99	70-130	9	
Chloroform	ug/L	ND	20	20	21.8	23.1	109	115	70-130	6	
Chloromethane	ug/L	ND	20	20	19.7	18.6	99	93	70-130	6	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.9	22.9	105	114	70-130	9	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.4	16.3	77	81	70-130	6	
Dibromochloromethane	ug/L	ND	20	20	16.0	16.4	80	82	70-130	2	
Ethylbenzene	ug/L	ND	20	20	17.2	17.8	86	89	70-130	3	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	17.4	18.8	87	94	70-130	8	
m&p-Xylene	ug/L	ND	40	40	36.1	37.9	90	95	70-130	5	
Methylene Chloride	ug/L	ND	20	20	18.1	19.0	89	94	70-130	5	
o-Xylene	ug/L	ND	20	20	17.8	18.1	89	91	70-130	2	
Styrene	ug/L	ND	20	20	17.1	17.7	86	88	70-130	3	
Tetrachloroethene	ug/L	ND	20	20	16.0	16.9	80	85	70-130	6	
Toluene	ug/L	ND	20	20	16.7	17.3	84	87	70-130	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.6	20.5	93	103	70-130	10	
trans-1,3-Dichloropropene	ug/L	ND	20	20	14.3	15.1	72	75	70-130	5	
Trichloroethene	ug/L	ND	20	20	16.5	16.3	82	82	70-130	1	
Trichlorofluoromethane	ug/L	ND	20	20	30.3	27.6	151	138	70-130	9	M0
Vinyl chloride	ug/L	ND	20	20	23.0	22.4	115	112	70-130	3	
1,2-Dichloroethane-d4 (S)	%						113	111	70-130		
4-Bromofluorobenzene (S)	%						98	98	70-130		
Toluene-d8 (S)	%						90	91	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3053059

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3053059

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3053059001	**PRE-CARB**	EPA 8260	MSV/10364		
3053059002	**PRIMARY-EFF**	EPA 8260	MSV/10364		
3053059003	**POST-CARB**	EPA 8260	MSV/10364		
3053059004	**TB-01**	EPA 8260	MSV/10364		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1363998

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 4 501 HOLIDAY DR. STE. 300 PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568904
Project Name: LESSEX/HOPE JAMESTOWN
Project Number: 41568904, 10000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			8.31.11	1045		3				X					X		001
2	PRIMARY-EFF						1050		3				X					X		002
3	POST-CARB						1055		3				X					X		003
4	POST-CARB						1125		3				X					X		
5	POST-CARB						1155		3				X					X		
6	POST-CARB						1225		3				X					X		004
7	TB-01	WT	G			8.31.11	—		2				X					X		
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE	[signature] URS	8.31.11	1315	[signature]	8.31.11	1315				
				RJC Pace	9/1	1050	5.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8.31.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Corp Project # 30530059

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8672553811 10

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 3 (5) **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 5.3 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C **Comments:**

Date and initials of person examining contents: BR 9/1

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed: BR Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rachel B Christner **Date:** 9/2/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

September 27, 2011

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

RE: Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3054090

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on September 20, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3054090

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3054090

Sample: PRE-CARB **Lab ID: 3054090001** Collected: 09/19/11 13:20 Received: 09/20/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/22/11 16:05	67-64-1	
Benzene	**3.1**	ug/L	1.0	1		09/22/11 16:05	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/22/11 16:05	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/22/11 16:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/22/11 16:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/22/11 16:05	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/22/11 16:05	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/22/11 16:05	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/22/11 16:05	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/22/11 16:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/22/11 16:05	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/22/11 16:05	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/22/11 16:05	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/22/11 16:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/22/11 16:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/22/11 16:05	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/22/11 16:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/22/11 16:05	107-06-2	
1,1-Dichloroethene	**6.9**	ug/L	5.0	1		09/22/11 16:05	75-35-4	
cis-1,2-Dichloroethene	**2060**	ug/L	200	40		09/22/11 16:31	156-59-2	
trans-1,2-Dichloroethene	**29.7**	ug/L	5.0	1		09/22/11 16:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/22/11 16:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/22/11 16:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/22/11 16:05	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/22/11 16:05	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/22/11 16:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/22/11 16:05	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/22/11 16:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/22/11 16:05	108-10-1	
Styrene	ND	ug/L	5.0	1		09/22/11 16:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/22/11 16:05	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/22/11 16:05	127-18-4	
Toluene	ND	ug/L	5.0	1		09/22/11 16:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/22/11 16:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/22/11 16:05	79-00-5	
Trichloroethene	**649**	ug/L	200	40		09/22/11 16:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/22/11 16:05	75-69-4	
Vinyl chloride	**268**	ug/L	1.0	1		09/22/11 16:05	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/22/11 16:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/22/11 16:05	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130	1		09/22/11 16:05	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		09/22/11 16:05	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		09/22/11 16:05	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3054090

Sample: PRIMARY EFF **Lab ID: 3054090002** Collected: 09/19/11 13:25 Received: 09/20/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**42.4**	ug/L	10.0	1		09/22/11 16:57	67-64-1	
Benzene	ND	ug/L	1.0	1		09/22/11 16:57	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/22/11 16:57	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/22/11 16:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/22/11 16:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/22/11 16:57	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/22/11 16:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/22/11 16:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/22/11 16:57	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/22/11 16:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/22/11 16:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/22/11 16:57	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/22/11 16:57	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/22/11 16:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/22/11 16:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/22/11 16:57	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/22/11 16:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/22/11 16:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/22/11 16:57	75-35-4	
cis-1,2-Dichloroethene	**71.8**	ug/L	5.0	1		09/22/11 16:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 16:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/22/11 16:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/22/11 16:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/22/11 16:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/22/11 16:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/22/11 16:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/22/11 16:57	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/22/11 16:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/22/11 16:57	108-10-1	
Styrene	ND	ug/L	5.0	1		09/22/11 16:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/22/11 16:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/22/11 16:57	127-18-4	
Toluene	ND	ug/L	5.0	1		09/22/11 16:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/22/11 16:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/22/11 16:57	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/22/11 16:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/22/11 16:57	75-69-4	
Vinyl chloride	**208**	ug/L	1.0	1		09/22/11 16:57	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/22/11 16:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/22/11 16:57	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		09/22/11 16:57	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		09/22/11 16:57	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		09/22/11 16:57	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3054090

Sample: POST-CARB **Lab ID: 3054090003** Collected: 09/19/11 15:00 Received: 09/20/11 10:30 Matrix: Water

Comments: • The sample was composited from four samples collected on 9/19/11 at 13:30, 14:00, 14:30, and 15:00 prior to analysis for 8260 VOA.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**869**	ug/L	400	40		09/22/11 18:15	67-64-1	
Benzene	ND	ug/L	1.0	1		09/22/11 17:49	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/22/11 17:49	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/22/11 17:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/22/11 17:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/22/11 17:49	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/22/11 17:49	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/22/11 17:49	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/22/11 17:49	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/22/11 17:49	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/22/11 17:49	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/22/11 17:49	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/22/11 17:49	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/22/11 17:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/22/11 17:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/22/11 17:49	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/22/11 17:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/22/11 17:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/22/11 17:49	75-35-4	
cis-1,2-Dichloroethene	**16.4**	ug/L	5.0	1		09/22/11 17:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 17:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/22/11 17:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/22/11 17:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/22/11 17:49	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/22/11 17:49	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/22/11 17:49	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/22/11 17:49	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/22/11 17:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/22/11 17:49	108-10-1	
Styrene	ND	ug/L	5.0	1		09/22/11 17:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/22/11 17:49	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/22/11 17:49	127-18-4	
Toluene	ND	ug/L	5.0	1		09/22/11 17:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/22/11 17:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/22/11 17:49	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/22/11 17:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/22/11 17:49	75-69-4	
Vinyl chloride	**17.9**	ug/L	1.0	1		09/22/11 17:49	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/22/11 17:49	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/22/11 17:49	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		09/22/11 17:49	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		09/22/11 17:49	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		09/22/11 17:49	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3054090

Sample: TB-01 **Lab ID: 3054090004** Collected: 09/19/11 00:01 Received: 09/20/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/22/11 18:41	67-64-1	
Benzene	ND	ug/L	1.0	1		09/22/11 18:41	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/22/11 18:41	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/22/11 18:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/22/11 18:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/22/11 18:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/22/11 18:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/22/11 18:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/22/11 18:41	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/22/11 18:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/22/11 18:41	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/22/11 18:41	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/22/11 18:41	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/22/11 18:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/22/11 18:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/22/11 18:41	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/22/11 18:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/22/11 18:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/22/11 18:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 18:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/22/11 18:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/22/11 18:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/22/11 18:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/22/11 18:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/22/11 18:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/22/11 18:41	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		09/22/11 18:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/22/11 18:41	108-10-1	
Styrene	ND	ug/L	5.0	1		09/22/11 18:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/22/11 18:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/22/11 18:41	127-18-4	
Toluene	ND	ug/L	5.0	1		09/22/11 18:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/22/11 18:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/22/11 18:41	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/22/11 18:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/22/11 18:41	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		09/22/11 18:41	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/22/11 18:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/22/11 18:41	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		09/22/11 18:41	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		09/22/11 18:41	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		09/22/11 18:41	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3054090

QC Batch: MSV/10529 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3054090001, 3054090002, 3054090003, 3054090004

METHOD BLANK: 345639 Matrix: Water
Associated Lab Samples: 3054090001, 3054090002, 3054090003, 3054090004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	09/22/11 14:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/22/11 14:20	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/22/11 14:20	
1,1-Dichloroethane	ug/L	ND	5.0	09/22/11 14:20	
1,1-Dichloroethene	ug/L	ND	5.0	09/22/11 14:20	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/22/11 14:20	
1,2-Dichloroethane	ug/L	ND	5.0	09/22/11 14:20	
1,2-Dichloropropane	ug/L	ND	5.0	09/22/11 14:20	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/22/11 14:20	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/22/11 14:20	
2-Butanone (MEK)	ug/L	ND	10.0	09/22/11 14:20	
2-Hexanone	ug/L	ND	10.0	09/22/11 14:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	09/22/11 14:20	
Acetone	ug/L	ND	10.0	09/22/11 14:20	
Benzene	ug/L	ND	1.0	09/22/11 14:20	
Bromodichloromethane	ug/L	ND	5.0	09/22/11 14:20	
Bromoform	ug/L	ND	5.0	09/22/11 14:20	
Bromomethane	ug/L	ND	5.0	09/22/11 14:20	
Carbon disulfide	ug/L	ND	5.0	09/22/11 14:20	
Carbon tetrachloride	ug/L	ND	5.0	09/22/11 14:20	
Chlorobenzene	ug/L	ND	5.0	09/22/11 14:20	
Chloroethane	ug/L	ND	5.0	09/22/11 14:20	
Chloroform	ug/L	ND	5.0	09/22/11 14:20	
Chloromethane	ug/L	ND	5.0	09/22/11 14:20	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/22/11 14:20	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/22/11 14:20	
Dibromochloromethane	ug/L	ND	5.0	09/22/11 14:20	
Ethylbenzene	ug/L	ND	5.0	09/22/11 14:20	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/22/11 14:20	
m&p-Xylene	ug/L	ND	5.0	09/22/11 14:20	
Methylene Chloride	ug/L	ND	5.0	09/22/11 14:20	
o-Xylene	ug/L	ND	5.0	09/22/11 14:20	
Styrene	ug/L	ND	5.0	09/22/11 14:20	
Tetrachloroethene	ug/L	ND	5.0	09/22/11 14:20	
Toluene	ug/L	ND	5.0	09/22/11 14:20	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/22/11 14:20	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/22/11 14:20	
Trichloroethene	ug/L	ND	5.0	09/22/11 14:20	
Trichlorofluoromethane	ug/L	ND	5.0	09/22/11 14:20	
Vinyl chloride	ug/L	ND	1.0	09/22/11 14:20	
1,2-Dichloroethane-d4 (S)	%	93	70-130	09/22/11 14:20	
4-Bromofluorobenzene (S)	%	97	70-130	09/22/11 14:20	
Toluene-d8 (S)	%	96	70-130	09/22/11 14:20	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3054090

LABORATORY CONTROL SAMPLE: 345640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	96	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	22.3	112	64.6-121	
1,1,2-Trichloroethane	ug/L	20	20.3	102	75.6-120	
1,1-Dichloroethane	ug/L	20	20.3	102	68.5-122	
1,1-Dichloroethene	ug/L	20	18.2	91	57.1-120	
1,2-Dichlorobenzene	ug/L	20	20.5	103	69.6-120	
1,2-Dichloroethane	ug/L	20	18.9	94	60.5-133	
1,2-Dichloropropane	ug/L	20	20.1	101	71-120	
1,3-Dichlorobenzene	ug/L	20	19.8	99	68.4-121	
1,4-Dichlorobenzene	ug/L	20	20.6	103	68.5-123	
2-Butanone (MEK)	ug/L	20	23.5	117	55.7-138	
2-Hexanone	ug/L	20	21.8	109	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	21.0	105	64.5-121	
Acetone	ug/L	20	21.7	109	57.6-168	
Benzene	ug/L	20	20.7	104	69.8-120	
Bromodichloromethane	ug/L	20	17.8	89	66.5-120	
Bromoform	ug/L	20	17.1	86	61.1-120	
Bromomethane	ug/L	20	22.8	114	10.6-240	
Carbon disulfide	ug/L	20	21.0	105	60.2-122	
Carbon tetrachloride	ug/L	20	18.0	90	60.1-127	
Chlorobenzene	ug/L	20	19.2	96	72-120	
Chloroethane	ug/L	20	15.8	79	36.8-142	
Chloroform	ug/L	20	19.1	95	69-122	
Chloromethane	ug/L	20	16.6	83	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	20.1	101	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	19.1	96	74.3-120	
Dibromochloromethane	ug/L	20	18.0	90	66.1-120	
Ethylbenzene	ug/L	20	20.0	100	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	21.0	105	68.3-129	
m&p-Xylene	ug/L	40	40.7	102	70.4-130	
Methylene Chloride	ug/L	20	18.9	95	61.5-125	
o-Xylene	ug/L	20	19.9	99	70.6-127	
Styrene	ug/L	20	19.6	98	69.9-120	
Tetrachloroethene	ug/L	20	18.3	92	63.4-121	
Toluene	ug/L	20	20.3	102	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	19.5	98	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	18.7	94	71-120	
Trichloroethene	ug/L	20	18.0	90	65.9-120	
Trichlorofluoromethane	ug/L	20	16.8	84	44.8-137	
Vinyl chloride	ug/L	20	18.8	94	51-127	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3054090

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 345880 345881

Parameter	Units	3054091001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.4	20.7	97	104	70-130	6	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.5	23.5	108	118	70-130	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.7	21.6	98	108	70-130	9	
1,1-Dichloroethane	ug/L	ND	20	20	19.6	21.0	98	105	70-130	7	
1,1-Dichloroethene	ug/L	ND	20	20	18.9	19.7	94	99	70-130	5	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.0	20.0	95	100	70-130	5	
1,2-Dichloroethane	ug/L	ND	20	20	18.0	18.5	90	93	70-130	2	
1,2-Dichloropropane	ug/L	ND	20	20	20.7	22.8	104	114	70-130	10	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.6	19.5	93	98	70-130	5	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.6	19.4	93	97	70-130	4	
2-Butanone (MEK)	ug/L	ND	20	20	20.5	21.1	102	106	70-130	3	
2-Hexanone	ug/L	ND	20	20	20.8	23.4	104	117	70-130	12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	21.9	22.0	110	110	70-130	.4	
Acetone	ug/L	ND	20	20	22.7	21.3	101	94	70-130	6	
Benzene	ug/L	ND	20	20	21.2	22.4	106	112	70-130	6	
Bromodichloromethane	ug/L	ND	20	20	16.8	19.0	84	95	70-130	12	
Bromoform	ug/L	ND	20	20	15.4	17.3	77	86	70-130	12	
Bromomethane	ug/L	ND	20	20	12.0	11.1	60	56	70-130	8	M0
Carbon disulfide	ug/L	ND	20	20	21.2	21.5	106	108	70-130	1	
Carbon tetrachloride	ug/L	ND	20	20	17.9	19.1	89	96	70-130	7	
Chlorobenzene	ug/L	ND	20	20	19.0	20.1	95	101	70-130	6	
Chloroethane	ug/L	ND	20	20	15.7	14.9	79	75	70-130	5	
Chloroform	ug/L	ND	20	20	19.6	21.0	94	101	70-130	7	
Chloromethane	ug/L	ND	20	20	16.7	16.4	84	82	70-130	2	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.6	20.7	98	104	70-130	6	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.5	20.1	93	100	70-130	8	
Dibromochloromethane	ug/L	ND	20	20	16.8	18.2	84	91	70-130	8	
Ethylbenzene	ug/L	ND	20	20	19.7	20.8	98	104	70-130	5	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	22.2	105	111	70-130	6	
m&p-Xylene	ug/L	ND	40	40	39.3	41.9	98	105	70-130	6	
Methylene Chloride	ug/L	ND	20	20	19.0	20.1	92	98	70-130	6	
o-Xylene	ug/L	ND	20	20	19.4	20.7	97	103	70-130	7	
Styrene	ug/L	ND	20	20	17.4	18.4	87	92	70-130	5	
Tetrachloroethene	ug/L	ND	20	20	19.2	19.9	96	99	70-130	4	
Toluene	ug/L	ND	20	20	20.3	21.9	101	110	70-130	8	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.2	20.3	96	101	70-130	6	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.3	19.3	87	96	70-130	11	
Trichloroethene	ug/L	ND	20	20	18.4	20.1	92	100	70-130	8	
Trichlorofluoromethane	ug/L	ND	20	20	19.7	19.2	98	96	70-130	3	
Vinyl chloride	ug/L	ND	20	20	20.7	20.0	104	100	70-130	4	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130		
4-Bromofluorobenzene (S)	%						98	99	70-130		
Toluene-d8 (S)	%						101	102	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3054090

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3054090

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3054090001	**PRE-CARB**	EPA 8260	MSV/10529		
3054090002	**PRIMARY EFF**	EPA 8260	MSV/10529		
3054090003	**POST-CARB**	EPA 8260	MSV/10529		
3054090004	**TB-01**	EPA 8260	MSV/10529		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1492257

Section A
Required Client Information:

Company:	URS CORP
Address:	FOSTER PLAZA 4, STE. 300 501 HOLIDAY DR. PITTSBURGH, PA 15220
Email To:	
Phone: 412-503-4700	Fax: 412-503-4701
Requested Due Date/TAT:	5-DAY

Section B
Required Project Information:

Report To:	MARK DOWIAK
Copy To:	VALERIE SIBETO
Purchase Order No.:	41568904
Project Name:	ESSEX/HOPE JAMESTOWN
Project Number:	41568904.10000

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: NY

Section D
Required Client Information

Matrix Codes
MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 3054090
1	PRE-CARB	WT	G			9.19.11	1320		3				X						X		001
2	PRIMARY-EFF	↓	↓			↓	1325		3				X						X		002
3	POST-CARB						1330		3				X						X		003
4	POST-CARB						1400		3				X						X		↓
5	POST-CARB						1430		3				X						X		
6	POST-CARB						1500		3				X						X		
7	TB-01					9.19.11	—		2				X						X		004
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4) POST-CARB	Valerie Sibeto / URS	9.19.11	~1530	FedEx. Air	9.19.11	~1530				
SAMPLES IN LAB AND REPORT AS				Jenen Siler Pace	9-20-11	1030	4.0	Y	N	Y
POST-CARB COMPOSITE.										
NOTE: ACCELERATED TAT!!										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: Valerie Sibeto DATE Signed (MM/DD/YY): 9.19.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30544040

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 8672 5538 1120

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [ ] None [X] Other plastic bags

Thermometer Used 3 (5) Type of Ice: (Wet) Blue None [ ] Samples on ice, cooling process has begun

Cooler Temperature 4.0 Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: 9-20-11

Temp should be above freezing to 6°C

Comments:

				Comments
Chain of Custody Present:	[X] Yes	[ ] No	[ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes	[ ] No	[ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes	[ ] No	[ ] N/A	3.
Sampler Name & Signature on COC:	[X] Yes	[ ] No	[ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes	[ ] No	[ ] N/A	5.
Short Hold Time Analysis (<72hr):	[ ] Yes	[X] No	[ ] N/A	6.
Rush Turn Around Time Requested:	[X] Yes	[ ] No	[ ] N/A	7.
Sufficient Volume:	[X] Yes	[ ] No	[ ] N/A	8.
Correct Containers Used:	[X] Yes	[ ] No	[ ] N/A	9.
-Pace Containers Used:	[X] Yes	[ ] No	[ ] N/A	
Containers Intact:	[X] Yes	[ ] No	[ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes	[ ] No	[X] N/A	11.
Sample Labels match COC:	[ ] Yes	[ ] No	[ ] N/A	12.
-Includes date/time/ID/Analysis Matrix: WT				
All containers needing preservation have been checked.	[ ] Yes	[ ] No	[X] N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ] Yes	[ ] No	[X] N/A	
exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water)	[X] Yes	[ ] No		Initial when completed JMS Lot # of added preservative
Samples checked for dechlorination:	[ ] Yes	[ ] No	[X] N/A	14.
Headspace in VOA Vials (>6mm):	[X] Yes	[ ] No	[ ] N/A	15. Both Trip Blanks
Trip Blank Present:	[X] Yes	[ ] No	[ ] N/A	16.
Trip Blank Custody Seals Present	[X] Yes	[ ] No	[ ] N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rachel C. Christner Date: 9/20/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 26, 2011

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

RE: Project: Essex-Hope Jamestown
Pace Project No.: 3056271

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel D Christner

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope Jamestown
Pace Project No.: 3056271

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3056271

Sample: PRE-CARB **Lab ID: 3056271001** Collected: 10/21/11 10:05 Received: 10/22/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/25/11 17:15	67-64-1	
Benzene	**4.4**	ug/L	1.0	1		10/25/11 17:15	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/25/11 17:15	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/25/11 17:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/25/11 17:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/25/11 17:15	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/25/11 17:15	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/25/11 17:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/25/11 17:15	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/25/11 17:15	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/25/11 17:15	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/25/11 17:15	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/25/11 17:15	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/25/11 17:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/25/11 17:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/25/11 17:15	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/25/11 17:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/25/11 17:15	107-06-2	
1,1-Dichloroethene	**10.7**	ug/L	5.0	1		10/25/11 17:15	75-35-4	
cis-1,2-Dichloroethene	**2670**	ug/L	250	50		10/25/11 17:41	156-59-2	
trans-1,2-Dichloroethene	**59.9**	ug/L	5.0	1		10/25/11 17:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/25/11 17:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/25/11 17:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/25/11 17:15	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/25/11 17:15	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/25/11 17:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/25/11 17:15	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		10/25/11 17:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/25/11 17:15	108-10-1	
Styrene	ND	ug/L	5.0	1		10/25/11 17:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/25/11 17:15	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/25/11 17:15	127-18-4	
Toluene	ND	ug/L	5.0	1		10/25/11 17:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/25/11 17:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/25/11 17:15	79-00-5	
Trichloroethene	**999**	ug/L	250	50		10/25/11 17:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/25/11 17:15	75-69-4	
Vinyl chloride	**347**	ug/L	1.0	1		10/25/11 17:15	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/25/11 17:15	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/25/11 17:15	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		10/25/11 17:15	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/25/11 17:15	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		10/25/11 17:15	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3056271

Sample: PRIMARY-EFF **Lab ID: 3056271002** Collected: 10/21/11 10:10 Received: 10/22/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/26/11 01:06	67-64-1	
Benzene	ND	ug/L	1.0	1		10/26/11 01:06	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/26/11 01:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/26/11 01:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/26/11 01:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/26/11 01:06	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/26/11 01:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/26/11 01:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/26/11 01:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/26/11 01:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/26/11 01:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/26/11 01:06	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/26/11 01:06	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/26/11 01:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/26/11 01:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/26/11 01:06	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/26/11 01:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/26/11 01:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/26/11 01:06	75-35-4	
cis-1,2-Dichloroethene	**91.1**	ug/L	5.0	1		10/26/11 01:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/26/11 01:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/26/11 01:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/26/11 01:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/26/11 01:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/26/11 01:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/26/11 01:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/26/11 01:06	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		10/26/11 01:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/26/11 01:06	108-10-1	
Styrene	ND	ug/L	5.0	1		10/26/11 01:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/26/11 01:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/26/11 01:06	127-18-4	
Toluene	ND	ug/L	5.0	1		10/26/11 01:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/26/11 01:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/26/11 01:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/26/11 01:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/26/11 01:06	75-69-4	
Vinyl chloride	**587**	ug/L	10.0	10		10/26/11 11:43	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/26/11 01:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/26/11 01:06	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		10/26/11 01:06	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/26/11 01:06	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		10/26/11 01:06	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3056271

Sample: POST-CARB **Lab ID: 3056271003** Collected: 10/21/11 11:45 Received: 10/22/11 10:30 Matrix: Water

Comments: • Sample Times of Four Grabs 10:15, 10:45, 11:15, and 11:45
• This sample was compostited from 4 vials prior to 8260B VOA analysis.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/25/11 18:34	67-64-1	
Benzene	ND	ug/L	1.0	1		10/25/11 18:34	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/25/11 18:34	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/25/11 18:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/25/11 18:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/25/11 18:34	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/25/11 18:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/25/11 18:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/25/11 18:34	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/25/11 18:34	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/25/11 18:34	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/25/11 18:34	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/25/11 18:34	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/25/11 18:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/25/11 18:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/25/11 18:34	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/25/11 18:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/25/11 18:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/25/11 18:34	75-35-4	
cis-1,2-Dichloroethene	**12.2**	ug/L	5.0	1		10/25/11 18:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/25/11 18:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/25/11 18:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/25/11 18:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/25/11 18:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/25/11 18:34	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/25/11 18:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/25/11 18:34	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		10/25/11 18:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/25/11 18:34	108-10-1	
Styrene	ND	ug/L	5.0	1		10/25/11 18:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/25/11 18:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/25/11 18:34	127-18-4	
Toluene	ND	ug/L	5.0	1		10/25/11 18:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/25/11 18:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/25/11 18:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/25/11 18:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/25/11 18:34	75-69-4	
Vinyl chloride	**15.0**	ug/L	1.0	1		10/25/11 18:34	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/25/11 18:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/25/11 18:34	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		10/25/11 18:34	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		10/25/11 18:34	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		10/25/11 18:34	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3056271

Sample: TB-01 **Lab ID: 3056271004** Collected: 10/21/11 00:01 Received: 10/22/11 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/25/11 19:00	67-64-1	
Benzene	ND	ug/L	1.0	1		10/25/11 19:00	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/25/11 19:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/25/11 19:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/25/11 19:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/25/11 19:00	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/25/11 19:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/25/11 19:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/25/11 19:00	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/25/11 19:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/25/11 19:00	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/25/11 19:00	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/25/11 19:00	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/25/11 19:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/25/11 19:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/25/11 19:00	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/25/11 19:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/25/11 19:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/25/11 19:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/25/11 19:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/25/11 19:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/25/11 19:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/25/11 19:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/25/11 19:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/25/11 19:00	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/25/11 19:00	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/25/11 19:00	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		10/25/11 19:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/25/11 19:00	108-10-1	
Styrene	ND	ug/L	5.0	1		10/25/11 19:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/25/11 19:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/25/11 19:00	127-18-4	
Toluene	ND	ug/L	5.0	1		10/25/11 19:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/25/11 19:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/25/11 19:00	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/25/11 19:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/25/11 19:00	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/25/11 19:00	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/25/11 19:00	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/25/11 19:00	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		10/25/11 19:00	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/25/11 19:00	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		10/25/11 19:00	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3056271

QC Batch: MSV/10890 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3056271001, 3056271002, 3056271003, 3056271004

METHOD BLANK: 359416 Matrix: Water
Associated Lab Samples: 3056271001, 3056271002, 3056271003, 3056271004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/25/11 14:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/25/11 14:38	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/25/11 14:38	
1,1-Dichloroethane	ug/L	ND	5.0	10/25/11 14:38	
1,1-Dichloroethene	ug/L	ND	5.0	10/25/11 14:38	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/25/11 14:38	
1,2-Dichloroethane	ug/L	ND	5.0	10/25/11 14:38	
1,2-Dichloropropane	ug/L	ND	5.0	10/25/11 14:38	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/25/11 14:38	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/25/11 14:38	
2-Butanone (MEK)	ug/L	ND	10.0	10/25/11 14:38	
2-Hexanone	ug/L	ND	10.0	10/25/11 14:38	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/25/11 14:38	
Acetone	ug/L	ND	10.0	10/25/11 14:38	
Benzene	ug/L	ND	1.0	10/25/11 14:38	
Bromodichloromethane	ug/L	ND	5.0	10/25/11 14:38	
Bromoform	ug/L	ND	5.0	10/25/11 14:38	
Bromomethane	ug/L	ND	5.0	10/25/11 14:38	
Carbon disulfide	ug/L	ND	5.0	10/25/11 14:38	
Carbon tetrachloride	ug/L	ND	5.0	10/25/11 14:38	
Chlorobenzene	ug/L	ND	5.0	10/25/11 14:38	
Chloroethane	ug/L	ND	5.0	10/25/11 14:38	
Chloroform	ug/L	ND	5.0	10/25/11 14:38	
Chloromethane	ug/L	ND	5.0	10/25/11 14:38	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/25/11 14:38	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/25/11 14:38	
Dibromochloromethane	ug/L	ND	5.0	10/25/11 14:38	
Ethylbenzene	ug/L	ND	5.0	10/25/11 14:38	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/25/11 14:38	
m&p-Xylene	ug/L	ND	5.0	10/25/11 14:38	
Methylene Chloride	ug/L	ND	5.0	10/25/11 14:38	
o-Xylene	ug/L	ND	5.0	10/25/11 14:38	
Styrene	ug/L	ND	5.0	10/25/11 14:38	
Tetrachloroethene	ug/L	ND	5.0	10/25/11 14:38	
Toluene	ug/L	ND	5.0	10/25/11 14:38	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/25/11 14:38	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/25/11 14:38	
Trichloroethene	ug/L	ND	5.0	10/25/11 14:38	
Trichlorofluoromethane	ug/L	ND	5.0	10/25/11 14:38	
Vinyl chloride	ug/L	ND	1.0	10/25/11 14:38	
1,2-Dichloroethane-d4 (S)	%	95	70-130	10/25/11 14:38	
4-Bromofluorobenzene (S)	%	103	70-130	10/25/11 14:38	
Toluene-d8 (S)	%	97	70-130	10/25/11 14:38	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3056271

LABORATORY CONTROL SAMPLE: 359417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.1	101	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	18.0	90	64.6-121	
1,1,2-Trichloroethane	ug/L	20	18.9	94	75.6-120	
1,1-Dichloroethane	ug/L	20	18.9	95	68.5-122	
1,1-Dichloroethene	ug/L	20	17.3	87	57.1-120	
1,2-Dichlorobenzene	ug/L	20	19.7	99	69.6-120	
1,2-Dichloroethane	ug/L	20	18.8	94	60.5-133	
1,2-Dichloropropane	ug/L	20	18.9	94	71-120	
1,3-Dichlorobenzene	ug/L	20	19.9	100	68.4-121	
1,4-Dichlorobenzene	ug/L	20	20.0	100	68.5-123	
2-Butanone (MEK)	ug/L	20	20.6	103	55.7-138	
2-Hexanone	ug/L	20	17.6	88	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.8	94	64.5-121	
Acetone	ug/L	20	17.9	89	57.6-168	
Benzene	ug/L	20	19.3	97	69.8-120	
Bromodichloromethane	ug/L	20	18.3	92	66.5-120	
Bromoform	ug/L	20	17.5	88	61.1-120	
Bromomethane	ug/L	20	28.7	143	10.6-240	
Carbon disulfide	ug/L	20	18.1	90	60.2-122	
Carbon tetrachloride	ug/L	20	19.4	97	60.1-127	
Chlorobenzene	ug/L	20	19.8	99	72-120	
Chloroethane	ug/L	20	18.0	90	36.8-142	
Chloroform	ug/L	20	19.2	96	69-122	
Chloromethane	ug/L	20	12.2	61	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	19.0	95	74.3-120	
Dibromochloromethane	ug/L	20	18.2	91	66.1-120	
Ethylbenzene	ug/L	20	20.1	100	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	20.6	103	68.3-129	
m&p-Xylene	ug/L	40	41.4	104	70.4-130	
Methylene Chloride	ug/L	20	17.3	86	61.5-125	
o-Xylene	ug/L	20	21.1	106	70.6-127	
Styrene	ug/L	20	20.0	100	69.9-120	
Tetrachloroethene	ug/L	20	20.3	102	63.4-121	
Toluene	ug/L	20	20.7	103	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	18.7	93	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	18.1	91	71-120	
Trichloroethene	ug/L	20	19.4	97	65.9-120	
Trichlorofluoromethane	ug/L	20	19.3	97	44.8-137	
Vinyl chloride	ug/L	20	16.0	80	51-127	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope Jamestown
Pace Project No.: 3056271

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope Jamestown
Pace Project No.: 3056271

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3056271001	**PRE-CARB**	EPA 8260	MSV/10890		
3056271002	**PRIMARY-EFF**	EPA 8260	MSV/10890		
3056271003	**POST-CARB**	EPA 8260	MSV/10890		
3056271004	**TB-01**	EPA 8260	MSV/10890		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1493040

Section A Required Client Information:

Company: URS CORP
Address: ~~FOSTER PLAZA 4~~ ~~501 HOLIDAY DR. STE. 300~~ PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4900 Fax: 412-503-4791
Requested Due Date/TAT: 3-DAY

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568904
Project Name: ESSEX/HWE JAMESTOWN
Project Number: 41568904, 19000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOC 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WTG				10.21.11	1005		3				X					X		001
2	PRIMARY-EFF						1010		3				X					X		002
3	POST-CARB						1015		3				X					X		003
4	POST-CARB						1045		3				X					X		
5	POST-CARB						1115		3				X					X		
6	POST-CARB						1145		3				X					X		
7	TB-01	V	V			10.21.11	—		2				X					X		004
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Composite FOUR(4)	[signature] URS	10.21.11	~1230	[signature] Fed Ex Ch	10.21.11	~1230				
POST-CARB SAMPLES IN LAB				[signature] Pace	10/22/11	1030	0.4	Y	N	Y
AND REPORT AS										
POST-CARB COMPOSITE										

Note! Accelerated TAT ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10.21.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days

RES

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 3056271

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8672 5538 1223

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: 3 (5) Type of Ice: (Wet) Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature: 0.4 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: RES 10/22/11

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	7. 3 Day
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed: RES Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☒Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rachel D Christner **Date:** 10/24/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

December 16, 2011

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

RE: Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3058515

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3058515

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3058515

Sample: PRE-CARB **Lab ID: 3058515001** Collected: 11/29/11 14:50 Received: 12/01/11 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**34.5**	ug/L	10.0	1		12/09/11 21:21	67-64-1	
Benzene	**5.7**	ug/L	1.0	1		12/09/11 21:21	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/09/11 21:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/09/11 21:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/09/11 21:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/09/11 21:21	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/09/11 21:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/09/11 21:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/09/11 21:21	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/09/11 21:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/09/11 21:21	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/09/11 21:21	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/09/11 21:21	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/09/11 21:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/09/11 21:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/09/11 21:21	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/09/11 21:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/09/11 21:21	107-06-2	
1,1-Dichloroethene	**12.6**	ug/L	5.0	1		12/09/11 21:21	75-35-4	
cis-1,2-Dichloroethene	**2870**	ug/L	125	25		12/09/11 21:46	156-59-2	
trans-1,2-Dichloroethene	**40.7**	ug/L	5.0	1		12/09/11 21:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/09/11 21:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/09/11 21:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/09/11 21:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/09/11 21:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/09/11 21:21	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/09/11 21:21	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		12/09/11 21:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/09/11 21:21	108-10-1	
Styrene	ND	ug/L	5.0	1		12/09/11 21:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/09/11 21:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/09/11 21:21	127-18-4	
Toluene	ND	ug/L	5.0	1		12/09/11 21:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/09/11 21:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/09/11 21:21	79-00-5	
Trichloroethene	**618**	ug/L	125	25		12/09/11 21:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/09/11 21:21	75-69-4	
Vinyl chloride	**348**	ug/L	1.0	1		12/09/11 21:21	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/09/11 21:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/09/11 21:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		12/09/11 21:21	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		12/09/11 21:21	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		12/09/11 21:21	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3058515

Sample: PRIMARY EFF **Lab ID: 3058515002** Collected: 11/29/11 14:55 Received: 12/01/11 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**19.1**	ug/L	10.0	1		12/09/11 22:12	67-64-1	
Benzene	**2.9**	ug/L	1.0	1		12/09/11 22:12	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/09/11 22:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/09/11 22:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/09/11 22:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/09/11 22:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/09/11 22:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/09/11 22:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/09/11 22:12	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/09/11 22:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/09/11 22:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/09/11 22:12	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/09/11 22:12	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/09/11 22:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/09/11 22:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/09/11 22:12	106-46-7	
1,1-Dichloroethane	**5.2**	ug/L	5.0	1		12/09/11 22:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/09/11 22:12	107-06-2	
1,1-Dichloroethene	**5.3**	ug/L	5.0	1		12/09/11 22:12	75-35-4	
cis-1,2-Dichloroethene	**2520**	ug/L	50.0	10		12/09/11 22:37	156-59-2	
trans-1,2-Dichloroethene	**21.4**	ug/L	5.0	1		12/09/11 22:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/09/11 22:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/09/11 22:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/09/11 22:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/09/11 22:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/09/11 22:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/09/11 22:12	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		12/09/11 22:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/09/11 22:12	108-10-1	
Styrene	ND	ug/L	5.0	1		12/09/11 22:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/09/11 22:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/09/11 22:12	127-18-4	
Toluene	ND	ug/L	5.0	1		12/09/11 22:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/09/11 22:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/09/11 22:12	79-00-5	
Trichloroethene	**18.1**	ug/L	5.0	1		12/09/11 22:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/09/11 22:12	75-69-4	
Vinyl chloride	**354**	ug/L	10.0	10		12/09/11 22:37	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/09/11 22:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/09/11 22:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		12/09/11 22:12	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		12/09/11 22:12	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		12/09/11 22:12	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3058515

Sample: POST CARB **Lab ID: 3058515003** Collected: 11/29/11 16:30 Received: 12/01/11 10:15 Matrix: Water

Comments: • Samples were composited in the lab prior to analysis.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**37.9**	ug/L	10.0	1		12/09/11 20:56	67-64-1	
Benzene	ND	ug/L	1.0	1		12/09/11 20:56	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/09/11 20:56	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/09/11 20:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/09/11 20:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/09/11 20:56	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/09/11 20:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/09/11 20:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/09/11 20:56	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/09/11 20:56	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/09/11 20:56	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/09/11 20:56	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/09/11 20:56	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/09/11 20:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/09/11 20:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/09/11 20:56	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/09/11 20:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/09/11 20:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/09/11 20:56	75-35-4	
cis-1,2-Dichloroethene	**11.4**	ug/L	5.0	1		12/09/11 20:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/09/11 20:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/09/11 20:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/09/11 20:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/09/11 20:56	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/09/11 20:56	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/09/11 20:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/09/11 20:56	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		12/09/11 20:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/09/11 20:56	108-10-1	
Styrene	ND	ug/L	5.0	1		12/09/11 20:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/09/11 20:56	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/09/11 20:56	127-18-4	
Toluene	ND	ug/L	5.0	1		12/09/11 20:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/09/11 20:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/09/11 20:56	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/09/11 20:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/09/11 20:56	75-69-4	
Vinyl chloride	**574**	ug/L	10.0	10		12/13/11 15:18	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/09/11 20:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/09/11 20:56	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		12/09/11 20:56	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		12/09/11 20:56	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		12/09/11 20:56	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3058515

Sample: TB-01 **Lab ID: 3058515004** Collected: 11/29/11 00:01 Received: 12/01/11 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**45.0**	ug/L	10.0	1		12/09/11 20:30	67-64-1	
Benzene	ND	ug/L	1.0	1		12/09/11 20:30	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/09/11 20:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/09/11 20:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/09/11 20:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/09/11 20:30	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/09/11 20:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/09/11 20:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/09/11 20:30	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/09/11 20:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/09/11 20:30	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/09/11 20:30	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/09/11 20:30	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/09/11 20:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/09/11 20:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/09/11 20:30	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/09/11 20:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/09/11 20:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/09/11 20:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/09/11 20:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/09/11 20:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/09/11 20:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/09/11 20:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/09/11 20:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/09/11 20:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/09/11 20:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/09/11 20:30	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		12/09/11 20:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/09/11 20:30	108-10-1	
Styrene	ND	ug/L	5.0	1		12/09/11 20:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/09/11 20:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/09/11 20:30	127-18-4	
Toluene	ND	ug/L	5.0	1		12/09/11 20:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/09/11 20:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/09/11 20:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/09/11 20:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/09/11 20:30	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		12/09/11 20:30	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/09/11 20:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/09/11 20:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		12/09/11 20:30	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		12/09/11 20:30	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		12/09/11 20:30	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3058515

QC Batch: MSV/11346 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3058515001, 3058515002, 3058515003, 3058515004

METHOD BLANK: 378131 Matrix: Water
Associated Lab Samples: 3058515001, 3058515002, 3058515003, 3058515004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	12/09/11 13:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/09/11 13:17	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/09/11 13:17	
1,1-Dichloroethane	ug/L	ND	5.0	12/09/11 13:17	
1,1-Dichloroethene	ug/L	ND	5.0	12/09/11 13:17	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/09/11 13:17	
1,2-Dichloroethane	ug/L	ND	5.0	12/09/11 13:17	
1,2-Dichloropropane	ug/L	ND	5.0	12/09/11 13:17	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/09/11 13:17	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/09/11 13:17	
2-Butanone (MEK)	ug/L	ND	10.0	12/09/11 13:17	
2-Hexanone	ug/L	ND	10.0	12/09/11 13:17	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/09/11 13:17	
Acetone	ug/L	ND	10.0	12/09/11 13:17	
Benzene	ug/L	ND	1.0	12/09/11 13:17	
Bromodichloromethane	ug/L	ND	5.0	12/09/11 13:17	
Bromoform	ug/L	ND	5.0	12/09/11 13:17	
Bromomethane	ug/L	ND	5.0	12/09/11 13:17	
Carbon disulfide	ug/L	ND	5.0	12/09/11 13:17	
Carbon tetrachloride	ug/L	ND	5.0	12/09/11 13:17	
Chlorobenzene	ug/L	ND	5.0	12/09/11 13:17	
Chloroethane	ug/L	ND	5.0	12/09/11 13:17	
Chloroform	ug/L	ND	5.0	12/09/11 13:17	
Chloromethane	ug/L	ND	5.0	12/09/11 13:17	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/09/11 13:17	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/09/11 13:17	
Dibromochloromethane	ug/L	ND	5.0	12/09/11 13:17	
Ethylbenzene	ug/L	ND	5.0	12/09/11 13:17	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/09/11 13:17	
m&p-Xylene	ug/L	ND	5.0	12/09/11 13:17	
Methylene Chloride	ug/L	ND	5.0	12/09/11 13:17	
o-Xylene	ug/L	ND	5.0	12/09/11 13:17	
Styrene	ug/L	ND	5.0	12/09/11 13:17	
Tetrachloroethene	ug/L	ND	5.0	12/09/11 13:17	
Toluene	ug/L	ND	5.0	12/09/11 13:17	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/09/11 13:17	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/09/11 13:17	
Trichloroethene	ug/L	ND	5.0	12/09/11 13:17	
Trichlorofluoromethane	ug/L	ND	5.0	12/09/11 13:17	
Vinyl chloride	ug/L	ND	1.0	12/09/11 13:17	
1,2-Dichloroethane-d4 (S)	%	99	70-130	12/09/11 13:17	
4-Bromofluorobenzene (S)	%	96	70-130	12/09/11 13:17	
Toluene-d8 (S)	%	101	70-130	12/09/11 13:17	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3058515

LABORATORY CONTROL SAMPLE: 378132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.9	90	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	16.1	80	64.6-121	
1,1,2-Trichloroethane	ug/L	20	17.3	87	75.6-120	
1,1-Dichloroethane	ug/L	20	17.3	87	68.5-122	
1,1-Dichloroethene	ug/L	20	14.5	73	57.1-120	
1,2-Dichlorobenzene	ug/L	20	18.7	94	69.6-120	
1,2-Dichloroethane	ug/L	20	17.4	87	60.5-133	
1,2-Dichloropropane	ug/L	20	17.8	89	71-120	
1,3-Dichlorobenzene	ug/L	20	18.2	91	68.4-121	
1,4-Dichlorobenzene	ug/L	20	18.6	93	68.5-123	
2-Butanone (MEK)	ug/L	20	18.1	90	55.7-138	
2-Hexanone	ug/L	20	18.8	94	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.3	82	64.5-121	
Acetone	ug/L	20	20.1	100	57.6-168	
Benzene	ug/L	20	15.8	79	69.8-120	
Bromodichloromethane	ug/L	20	16.7	83	66.5-120	
Bromoform	ug/L	20	15.1	75	61.1-120	
Bromomethane	ug/L	20	18.8	94	10.6-240	
Carbon disulfide	ug/L	20	14.4	72	60.2-122	
Carbon tetrachloride	ug/L	20	18.2	91	60.1-127	
Chlorobenzene	ug/L	20	18.0	90	72-120	
Chloroethane	ug/L	20	16.9	85	36.8-142	
Chloroform	ug/L	20	16.1	80	69-122	
Chloromethane	ug/L	20	16.0	80	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	16.3	82	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	17.1	85	74.3-120	
Dibromochloromethane	ug/L	20	17.9	90	66.1-120	
Ethylbenzene	ug/L	20	18.1	90	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	17.6	88	68.3-129	
m&p-Xylene	ug/L	40	37.5	94	70.4-130	
Methylene Chloride	ug/L	20	16.3	82	61.5-125	
o-Xylene	ug/L	20	18.6	93	70.6-127	
Styrene	ug/L	20	17.6	88	69.9-120	
Tetrachloroethene	ug/L	20	18.5	93	63.4-121	
Toluene	ug/L	20	17.5	88	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	16.1	80	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	16.5	82	71-120	
Trichloroethene	ug/L	20	17.1	86	65.9-120	
Trichlorofluoromethane	ug/L	20	20.1	101	44.8-137	
Vinyl chloride	ug/L	20	17.1	86	51-127	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			98	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3058515

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

BATCH QUALIFIERS

Batch: MSV/11346

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3058515

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3058515001	**PRE-CARB**	EPA 8260	MSV/11346		
3058515002	**PRIMARY EFF**	EPA 8260	MSV/11346		
3058515003	**POST CARB**	EPA 8260	MSV/11346		
3058515004	**TB-01**	EPA 8260	MSV/11346		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1536017

Section A
Required Client Information:

Company:	URS CORP
Address:	~~FOSTER PLAZA 4~~ 501 HOLIDAY DR, STE 300 PITTSBURGH, PA 15220
Email To:	
Phone:	412-5034700 Fax: 412-503-4701
Requested Due Date/TAT:	STANDARD

Section B
Required Project Information:

Report To:	MARK DOWIAK
Copy To:	VALERIE SIBETO
Purchase Order No.:	41568904
Project Name:	ESSEX/HOPE JAMESTOWN
Project Number:	41568904.10000

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ________

Site Location STATE: NY

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes
MATRIX / CODE

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 3058515
1	PRE-CARB	WT	G			11.29.11	1450		3				X						X		001
2	PRIMARY-EFF	↓	↓			↓	1455		3				X						X		002
3	POST-CARB	↓	↓			↓	1500		3				X						X		003
4	POST-CARB	↓	↓			↓	1530		3				X						X		↓
5	POST-CARB	↓	↓			↓	1600		3				X						X		↓
6	POST-CARB	↓	↓			↓	1630		3				X						X		↓
7	TB-01	WT	G			11.29.11	—		2				X						X		004
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
~~Water~~ (VS)	[signature]/URS	11.29.11	~1715	Fed Ex Air	11/29/11	~1715				
				[signature] Pace	12/01	1015	5.1	N	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 11.29.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30580515

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Optional
Proj. Due Date:
Proj. Name:

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 3 5 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 5.1 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: AEC 12/1

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT				
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒Yes	☐No		Initial when completed AEC / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	15.
Trip Blank Present:	☒Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rachel D Thomas **Date:** 12/1/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

December 23, 2011

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

RE: Project: Essex-Hope Jamestown
Pace Project No.: 3059791

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on December 21, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope Jamestown
Pace Project No.: 3059791

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3059791

Sample: PRE-CARB **Lab ID: 3059791001** Collected: 12/20/11 11:20 Received: 12/21/11 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/22/11 17:53	67-64-1	
Benzene	**5.3**	ug/L	1.0	1		12/22/11 17:53	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/22/11 17:53	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/22/11 17:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/22/11 17:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/22/11 17:53	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/22/11 17:53	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/22/11 17:53	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/22/11 17:53	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/22/11 17:53	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/22/11 17:53	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/22/11 17:53	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/22/11 17:53	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/22/11 17:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/22/11 17:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/22/11 17:53	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/22/11 17:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/22/11 17:53	107-06-2	
1,1-Dichloroethene	**11.3**	ug/L	5.0	1		12/22/11 17:53	75-35-4	
cis-1,2-Dichloroethene	**3290**	ug/L	125	25		12/22/11 18:19	156-59-2	
trans-1,2-Dichloroethene	**93.0**	ug/L	5.0	1		12/22/11 17:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/22/11 17:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/11 17:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/11 17:53	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/22/11 17:53	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/22/11 17:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/22/11 17:53	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		12/22/11 17:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/22/11 17:53	108-10-1	
Styrene	ND	ug/L	5.0	1		12/22/11 17:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/22/11 17:53	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/22/11 17:53	127-18-4	
Toluene	ND	ug/L	5.0	1		12/22/11 17:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/22/11 17:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/22/11 17:53	79-00-5	
Trichloroethene	**607**	ug/L	125	25		12/22/11 18:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/22/11 17:53	75-69-4	
Vinyl chloride	**264**	ug/L	25.0	25		12/22/11 18:19	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/22/11 17:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/22/11 17:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		12/22/11 17:53	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		12/22/11 17:53	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		12/22/11 17:53	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3059791

Sample: PRIMARY EFF **Lab ID: 3059791002** Collected: 12/20/11 11:25 Received: 12/21/11 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/22/11 18:46	67-64-1	
Benzene	ND	ug/L	1.0	1		12/22/11 18:46	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/22/11 18:46	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/22/11 18:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/22/11 18:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/22/11 18:46	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/22/11 18:46	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/22/11 18:46	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/22/11 18:46	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/22/11 18:46	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/22/11 18:46	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/22/11 18:46	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/22/11 18:46	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/22/11 18:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/22/11 18:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/22/11 18:46	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/22/11 18:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/22/11 18:46	107-06-2	
1,1-Dichloroethene	**6.8**	ug/L	5.0	1		12/22/11 18:46	75-35-4	
cis-1,2-Dichloroethene	**2970**	ug/L	50.0	10		12/22/11 19:12	156-59-2	
trans-1,2-Dichloroethene	**43.8**	ug/L	5.0	1		12/22/11 18:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/22/11 18:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/11 18:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/11 18:46	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/22/11 18:46	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/22/11 18:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/22/11 18:46	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		12/22/11 18:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/22/11 18:46	108-10-1	
Styrene	ND	ug/L	5.0	1		12/22/11 18:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/22/11 18:46	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/22/11 18:46	127-18-4	
Toluene	ND	ug/L	5.0	1		12/22/11 18:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/22/11 18:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/22/11 18:46	79-00-5	
Trichloroethene	**47.8**	ug/L	5.0	1		12/22/11 18:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/22/11 18:46	75-69-4	
Vinyl chloride	**333**	ug/L	10.0	10		12/22/11 19:12	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/22/11 18:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/22/11 18:46	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		12/22/11 18:46	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		12/22/11 18:46	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		12/22/11 18:46	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3059791

Sample: POST CARB **Lab ID: 3059791003** Collected: 12/20/11 13:00 Received: 12/21/11 12:30 Matrix: Water

Comments: • The sample composited in the laboratory prior to analysis for 8260 VOA.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/22/11 19:38	67-64-1	
Benzene	ND	ug/L	1.0	1		12/22/11 19:38	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/22/11 19:38	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/22/11 19:38	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/22/11 19:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/22/11 19:38	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/22/11 19:38	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/22/11 19:38	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/22/11 19:38	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/22/11 19:38	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/22/11 19:38	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/22/11 19:38	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/22/11 19:38	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/22/11 19:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/22/11 19:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/22/11 19:38	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/22/11 19:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/22/11 19:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/22/11 19:38	75-35-4	
cis-1,2-Dichloroethene	**11.2**	ug/L	5.0	1		12/22/11 19:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/22/11 19:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/22/11 19:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/11 19:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/11 19:38	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/22/11 19:38	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/22/11 19:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/22/11 19:38	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		12/22/11 19:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/22/11 19:38	108-10-1	
Styrene	ND	ug/L	5.0	1		12/22/11 19:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/22/11 19:38	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/22/11 19:38	127-18-4	
Toluene	ND	ug/L	5.0	1		12/22/11 19:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/22/11 19:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/22/11 19:38	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/22/11 19:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/22/11 19:38	75-69-4	
Vinyl chloride	**375**	ug/L	10.0	10		12/22/11 20:05	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/22/11 19:38	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/22/11 19:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	107	%	70-130	1		12/22/11 19:38	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		12/22/11 19:38	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		12/22/11 19:38	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3059791

Sample: TB-01 **Lab ID: 3059791004** Collected: 12/20/11 00:01 Received: 12/21/11 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/22/11 17:01	67-64-1	
Benzene	ND	ug/L	1.0	1		12/22/11 17:01	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/22/11 17:01	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/22/11 17:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/22/11 17:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/22/11 17:01	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/22/11 17:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/22/11 17:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/22/11 17:01	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/22/11 17:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/22/11 17:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/22/11 17:01	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/22/11 17:01	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/22/11 17:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/22/11 17:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/22/11 17:01	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/22/11 17:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/22/11 17:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/22/11 17:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/22/11 17:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/22/11 17:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/22/11 17:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/11 17:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/11 17:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/22/11 17:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/22/11 17:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/22/11 17:01	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		12/22/11 17:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/22/11 17:01	108-10-1	
Styrene	ND	ug/L	5.0	1		12/22/11 17:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/22/11 17:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/22/11 17:01	127-18-4	
Toluene	ND	ug/L	5.0	1		12/22/11 17:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/22/11 17:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/22/11 17:01	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/22/11 17:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/22/11 17:01	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		12/22/11 17:01	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/22/11 17:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/22/11 17:01	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	1		12/22/11 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		12/22/11 17:01	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		12/22/11 17:01	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3059791

QC Batch: MSV/11471 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3059791001, 3059791002, 3059791003, 3059791004

METHOD BLANK: 383674 Matrix: Water
Associated Lab Samples: 3059791001, 3059791002, 3059791003, 3059791004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	12/22/11 12:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/22/11 12:12	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/22/11 12:12	
1,1-Dichloroethane	ug/L	ND	5.0	12/22/11 12:12	
1,1-Dichloroethene	ug/L	ND	5.0	12/22/11 12:12	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/22/11 12:12	
1,2-Dichloroethane	ug/L	ND	5.0	12/22/11 12:12	
1,2-Dichloropropane	ug/L	ND	5.0	12/22/11 12:12	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/22/11 12:12	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/22/11 12:12	
2-Butanone (MEK)	ug/L	ND	10.0	12/22/11 12:12	
2-Hexanone	ug/L	ND	10.0	12/22/11 12:12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/22/11 12:12	
Acetone	ug/L	ND	10.0	12/22/11 12:12	
Benzene	ug/L	ND	1.0	12/22/11 12:12	
Bromodichloromethane	ug/L	ND	5.0	12/22/11 12:12	
Bromoform	ug/L	ND	5.0	12/22/11 12:12	
Bromomethane	ug/L	ND	5.0	12/22/11 12:12	
Carbon disulfide	ug/L	ND	5.0	12/22/11 12:12	
Carbon tetrachloride	ug/L	ND	5.0	12/22/11 12:12	
Chlorobenzene	ug/L	ND	5.0	12/22/11 12:12	
Chloroethane	ug/L	ND	5.0	12/22/11 12:12	
Chloroform	ug/L	ND	5.0	12/22/11 12:12	
Chloromethane	ug/L	ND	5.0	12/22/11 12:12	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/22/11 12:12	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/22/11 12:12	
Dibromochloromethane	ug/L	ND	5.0	12/22/11 12:12	
Ethylbenzene	ug/L	ND	5.0	12/22/11 12:12	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/22/11 12:12	
m&p-Xylene	ug/L	ND	5.0	12/22/11 12:12	
Methylene Chloride	ug/L	ND	5.0	12/22/11 12:12	
o-Xylene	ug/L	ND	5.0	12/22/11 12:12	
Styrene	ug/L	ND	5.0	12/22/11 12:12	
Tetrachloroethene	ug/L	ND	5.0	12/22/11 12:12	
Toluene	ug/L	ND	5.0	12/22/11 12:12	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/22/11 12:12	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/22/11 12:12	
Trichloroethene	ug/L	ND	5.0	12/22/11 12:12	
Trichlorofluoromethane	ug/L	ND	5.0	12/22/11 12:12	
Vinyl chloride	ug/L	ND	1.0	12/22/11 12:12	
1,2-Dichloroethane-d4 (S)	%	93	70-130	12/22/11 12:12	
4-Bromofluorobenzene (S)	%	102	70-130	12/22/11 12:12	
Toluene-d8 (S)	%	96	70-130	12/22/11 12:12	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3059791

LABORATORY CONTROL SAMPLE: 383675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.4	97	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	19.6	98	64.6-121	
1,1,2-Trichloroethane	ug/L	20	15.6	78	75.6-120	
1,1-Dichloroethane	ug/L	20	18.1	90	68.5-122	
1,1-Dichloroethene	ug/L	20	17.2	86	57.1-120	
1,2-Dichlorobenzene	ug/L	20	21.0	105	69.6-120	
1,2-Dichloroethane	ug/L	20	17.7	88	60.5-133	
1,2-Dichloropropane	ug/L	20	16.5	83	71-120	
1,3-Dichlorobenzene	ug/L	20	20.9	104	68.4-121	
1,4-Dichlorobenzene	ug/L	20	21.6	108	68.5-123	
2-Butanone (MEK)	ug/L	20	18.6	93	55.7-138	
2-Hexanone	ug/L	20	15.7	78	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	15.6	78	64.5-121	
Acetone	ug/L	20	19.0	95	57.6-168	
Benzene	ug/L	20	17.0	85	69.8-120	
Bromodichloromethane	ug/L	20	15.3	76	66.5-120	
Bromoform	ug/L	20	17.1	86	61.1-120	
Bromomethane	ug/L	20	30.6	153	10.6-240	
Carbon disulfide	ug/L	20	14.0	70	60.2-122	
Carbon tetrachloride	ug/L	20	18.0	90	60.1-127	
Chlorobenzene	ug/L	20	16.8	84	72-120	
Chloroethane	ug/L	20	19.4	97	36.8-142	
Chloroform	ug/L	20	17.8	89	69-122	
Chloromethane	ug/L	20	18.3	91	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	16.8	84	74.3-120	
Dibromochloromethane	ug/L	20	15.6	78	66.1-120	
Ethylbenzene	ug/L	20	17.2	86	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	22.3	111	68.3-129	
m&p-Xylene	ug/L	40	35.7	89	70.4-130	
Methylene Chloride	ug/L	20	17.3	86	61.5-125	
o-Xylene	ug/L	20	17.3	87	70.6-127	
Styrene	ug/L	20	16.3	81	69.9-120	
Tetrachloroethene	ug/L	20	16.4	82	63.4-121	
Toluene	ug/L	20	17.2	86	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	18.1	91	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	16.8	84	71-120	
Trichloroethene	ug/L	20	15.9	80	65.9-120	
Trichlorofluoromethane	ug/L	20	18.9	94	44.8-137	
Vinyl chloride	ug/L	20	17.3	87	51-127	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			81	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope Jamestown
Pace Project No.: 3059791

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

BATCH QUALIFIERS

Batch: MSV/11471

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope Jamestown
Pace Project No.: 3059791

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3059791001	**PRE-CARB**	EPA 8260	MSV/11471		
3059791002	**PRIMARY EFF**	EPA 8260	MSV/11471		
3059791003	**POST CARB**	EPA 8260	MSV/11471		
3059791004	**TB-01**	EPA 8260	MSV/11471		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1540719

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 4, STE 300 501 HOLIDAY DR, PITTSBURGH, PA. 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: 72-HR

Section B Required Project Information:

Report To: MARY DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568904
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41568904, 10000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			12.20.11	1120		3				X						XXX		001
2	PRIMARY-EFF						1125		3				X						XXX		002
3	POST-CARB						1130		3				X						XXX		003
4	POST-CARB						1200		3				X						XXX		
5	POST-CARB						1230		3				X						XXX		
6	POST-CARB						1300		3				X						XXX		
7	TB-01	WT	G			12.20.11	—		2				X						XX		004
8																					
9																					
10																					
11																					
12																					

3059791

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE	Valerie Sibeto/URS	12.20.11	1345	Fed Ex	12.20.11	1345				
				Jeremy Siler/Pace	12-21-11	1230	4.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: Valerie Sibeto DATE Signed (MM/DD/YY): 12.20.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30597791

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 8726 4075 6805

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [ ] None [X] Other plastic bags

Thermometer Used 3 (5) 6 Type of Ice: (Wet) Blue None [ ] Samples on ice, cooling process has begun

Cooler Temperature 4.3 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: JMS 12-21-11

Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	[X] Yes	[ ] No	[ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes	[ ] No	[ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes	[ ] No	[ ] N/A	3.
Sampler Name & Signature on COC:	[X] Yes	[ ] No	[ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes	[ ] No	[ ] N/A	5.
Short Hold Time Analysis (<72hr):	[ ] Yes	[X] No	[ ] N/A	6.
Rush Turn Around Time Requested:	[X] Yes	[ ] No	[ ] N/A	7.
Sufficient Volume:	[X] Yes	[ ] No	[ ] N/A	8.
Correct Containers Used:	[X] Yes	[ ] No	[ ] N/A	9.
-Pace Containers Used:	[X] Yes	[ ] No	[ ] N/A	
Containers Intact:	[X] Yes	[ ] No	[ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes	[ ] No	[X] N/A	11.
Sample Labels match COC:	[X] Yes	[ ] No	[ ] N/A	12.
-Includes date/time/ID/Analysis Matrix: WT				
All containers needing preservation have been checked.	[ ] Yes	[ ] No	[X] N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ] Yes	[ ] No	[X] N/A	
exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water)	[X] Yes	[ ] No		Initial when completed: JMS Lot # of added preservative:
Samples checked for dechlorination:	[ ] Yes	[ ] No	[X] N/A	14.
Headspace in VOA Vials (>6mm):	[ ] Yes	[X] No	[ ] N/A	15.
Trip Blank Present:	[X] Yes	[ ] No	[ ] N/A	16.
Trip Blank Custody Seals Present	[X] Yes	[ ] No	[ ] N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rachel B Overmier **Date:** 12/21/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)