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February 10, 2009

Mr. Randall Peterson, P.E.  
Engineering & Operations Manager  
Division of Wastewater/Solid Waste  
Jamestown Board of Public Utilities  
P.O. Box 700  
Jamestown, NY 14702-0700

**Subject: Essex/Hope Site  
Semi-Annual Self Monitoring Report  
July through December 2008  
BPU Permit No. 26  
URS Project No. 41568140**

Dear Mr. Peterson:

This submittal represents the July through December 2008 monitoring report in accordance with the City of Jamestown Board of Public Utilities Industrial Wastewater Discharge Permit Number 26 for the Essex Specialty Products, Inc facility referenced above. For reporting purposes, Essex Specialty Products, Inc., is classified as a Significant Industrial User subject to Categorical Pretreatment Standards. As such, this report has been developed in accordance with the requirements of 40 CFR 403.12(e).

Specific requirements included in this report as shown on Table 1 are as follows:

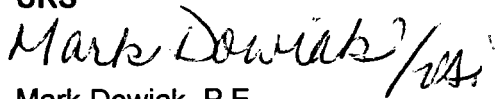
- Concentrations of Total Toxic Organics (TTOs) in discharge to POTW as measured monthly. Note: The Baseline Monitoring conducted for the discharge identified volatile organic compounds (VOCs) as approximately 98% of the influent TTO component. Non-volatile components historically were not a major component of chemical usage at the site. Based on these conditions, the permit requires sampling of VOCs to measure TTO concentration.
- pH of discharge to POTW as measured monthly.
- Flow rate of discharge to POTW as measured monthly.
- Estimated daily average and maximum flow rates.

URS Corporation  
Foster Plaza 4, Suite 300  
501 Holiday Drive  
Pittsburgh, PA 15205  
Tel: 412-503-4700  
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www.urscorp.com

This Semi-Annual Report contains system influent and effluent data for July through December 2008. There were no discharge noncompliance events that occurred during this reporting period. Table 1 summarizes the monthly discharge rates, and the total VOCs and constituents detected in the discharge to the POTW for each month. Discharge flow rates for the reporting period ranged from 98,468 to 169,094 gallons per month over the reporting period. The daily average flow rates shown on Table 1 were estimated based upon the total volume of water discharged per month. Daily maximum flow rates were estimated to be 20 percent greater than daily averages. The supporting Laboratory Certificates of Analysis for the reported concentrations of VOCs are also attached.

We trust that this submittal satisfies our reporting obligation pursuant to 40 CFR 403.12. If you have any questions or require additional information, please contact me at (412) 503-4672.

Sincerely,  
URS

A handwritten signature in black ink that reads "Mark Dowiak" followed by a stylized flourish or initials.

Mark Dowiak, P.E.  
Project Manager

Attachment

cc: Tim King (Dow)  
Maurice Moore (NYSDEC)  
Valerie Sibeto (URS)

Table 1

**July - December 2008**  
**Post Carbon (Effluent) Monitoring Data**  
**Essex/Hope Site**  
**Jamestown, NY**

| Reporting Requirements for Pre-Treated Discharge (System Effluent to POTW) | Industrial Wastewater Discharge Permit #26 Limits | July                           | August                         | September                      | October                        | November                       | December                       |
|----------------------------------------------------------------------------|---------------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| POTW Discharge Analytical Data                                             |                                                   |                                |                                |                                |                                |                                |                                |
| Total VOCs (µg/L)                                                          | 2,130 µg/L (TTO)                                  | 65                             | 98                             | 325                            | 501                            | 644                            | 345                            |
| Detected Compounds                                                         | Report                                            | cis-1,2-DCE and Vinyl Chloride | cis-1,2-DCE and Vinyl Chloride | cis-1,2-DCE and Vinyl Chloride | cis-1,2-DCE and Vinyl Chloride | cis-1,2-DCE and Vinyl Chloride | cis-1,2-DCE and Vinyl Chloride |
| pH (Standard Units)                                                        | 5.5 to 10                                         | 7.00                           | 7.00                           | 7.25                           | 7.75                           | 7.25                           | 7.25                           |
|                                                                            |                                                   | 7.00                           | 7.00                           | 7.25                           | 7.75                           | 7.25                           | 7.25                           |
|                                                                            |                                                   | 7.00                           | 7.00                           | 7.25                           | 7.75                           | 7.25                           | 7.25                           |
|                                                                            |                                                   | 7.00                           | 7.00                           | 7.25                           | 7.75                           | 7.25                           | 7.25                           |
| POTW Discharge Flow Data                                                   |                                                   |                                |                                |                                |                                |                                |                                |
| Monthly Total Flow (gallons)                                               | Report                                            | 169,094                        | 107,065                        | 98,468                         | 145,771                        | 152,379                        | 130,992                        |
| Average Daily Flow (gallons)                                               | Report                                            | 5,455                          | 3,454                          | 3,282                          | 4,702                          | 5,079                          | 4,226                          |
| Maximum Daily Flow (gallons)                                               | Report                                            | 6,546                          | 4,144                          | 3,939                          | 5,843                          | 6,095                          | 5,071                          |

**Notes:**

Jamestown BPU Industrial Wastewater Discharge Permit #26 effective 11/5/07 through 11/4/12.

Maximum Daily Flow is estimated to be 20% greater than Average Daily Flow.

VOCs sample is a laboratory prepared composite of 4 grab samples collected from the pre-treatment system discharge to the POTW at 30 minute intervals.

pH measurements recorded are concurrent with the time of each grab sample. Italicized measurements are approximate.

TTO = Total Toxic Organics

## **ATTACHMENTS**

### **LABORATORY ANALYTICAL REPORTS**

August 5, 2008

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on July 25, 2008. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Parameters printed in italics represent Non-NELAC accredited parameters. Please reference Pace project number 08-5466 when inquiring about this report.

Client Site: Essex-Hope  
Client Ref.: 41568140.10000

| Pace Sample Identification | Client Sample Identification |
|----------------------------|------------------------------|
| 0807-3316                  | Pre-Carb                     |
| 0807-3317                  | Primary-Eff                  |
| 0807-3318                  | Post-Carb                    |
| 0807-3322                  | TB-01                        |

**General Comments:** Cooler temperature 11.3 ° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester  
Project Manager

REC: jld

Enclosures

Page 1 of 10

## REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope  
Client Ref.: 41568140.10000

**Pace Analytical Services, Inc.**  
1638 Roseytown Rd  
Suites 2, 3 & 4  
Greensburg, PA 15601  
Phone: 724.850.5600  
Fax: 724.850.5601

Lab Project ID: 08-5466  
Lab Sample ID: 0807-3316  
Client Sample ID: Pre-Carb  
Sample Matrix: Aqueous

Date Sampled: 07/24/2008  
Date Received: 07/25/2008

### Volatiles

| Test                                  | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |                      |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| Benzene                               | 8260B <sup>(1)</sup> | 5.3    | 1.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <1.0         |
| Bromodichloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Bromoform                             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Bromomethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 2-Butanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| Carbon Disulfide                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chlorobenzene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chloroethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chloroform                            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chloromethane                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Cumene                                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Dibromochloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B <sup>(1)</sup> | 17     | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B <sup>(1)</sup> | 3800   | 40              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B <sup>(1)</sup> | 28     | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Ethylbenzene                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 2-Hexanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| Methylene chloride                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |

(Continued)

## REPORT OF LABORATORY ANALYSIS

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**Lab Sample ID: 0807-3316**

**Client Sample ID: Pre-Carb**

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | 950  | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | 450  | 80  | ug/l | MAK | 07/30/2008 | 0075363-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis.

## REPORT OF LABORATORY ANALYSIS

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

**Lab Project ID:** 08-5466  
**Lab Sample ID:** 0807-3317  
**Client Sample ID:** Primary-Eff  
**Sample Matrix:** Aqueous

**Date Sampled:** 07/24/2008  
**Date Received:** 07/25/2008

**Client Site:** Essex-Hope  
**Client Ref.:** 41568140.10000

### Volatiles

| Test                                  | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |                      |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| Benzene                               | 8260B <sup>(1)</sup> | <1.0   | 1.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <1.0         |
| Bromodichloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Bromoform                             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Bromomethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 2-Butanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| Carbon Disulfide                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chlorobenzene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chloroethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chloroform                            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chloromethane                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Cumene                                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Dibromochloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B <sup>(1)</sup> | 32     | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Ethylbenzene                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 2-Hexanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| Methylene chloride                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |

(Continued)

## REPORT OF LABORATORY ANALYSIS

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**Lab Sample ID: 0807-3317**  
**Client Sample ID: Primary-Eff**

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | 250  | 2.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis.

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

Client Site: Essex-Hope  
Client Ref.: 41568140.10000

**Pace Analytical Services, Inc.**  
1638 Roseytown Rd  
Suites 2, 3 & 4  
Greensburg, PA 15601  
Phone: 724.850.5600  
Fax: 724.850.5601

**Lab Project ID:** 08-5466  
**Lab Sample ID:** 0807-3318  
**Client Sample ID:** Post-Carb  
**Sample Matrix:** Aqueous

**Date Sampled:** 07/24/2008  
**Date Received:** 07/25/2008

### Volatiles

| Test                                  | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |                      |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| Benzene                               | 8260B <sup>(1)</sup> | <1.0   | 1.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <1.0         |
| Bromodichloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Bromoform                             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Bromomethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 2-Butanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| Carbon Disulfide                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chlorobenzene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chloroethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chloroform                            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chloromethane                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Cumene                                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Dibromochloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B <sup>(1)</sup> | 61     | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Ethylbenzene                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 2-Hexanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| Methylene chloride                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |

(Continued)

## REPORT OF LABORATORY ANALYSIS

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**Lab Sample ID: 0807-3318**  
**Client Sample ID: Post-Carb**

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | 3.6  | 2.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis. Sample 0807-3318 was composited from 4 samples prior to analysis.

## REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 08-5466  
Lab Sample ID: 0807-3322  
Client Sample ID: TB-01  
Sample Matrix: Aqueous

Date Sampled: 07/24/2008  
Date Received: 07/25/2008

Client Site: Essex-Hope  
Client Ref.: 41568140.10000

### Volatiles

| Test                                  | Method   | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |          |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B(1) | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| Benzene                               | 8260B(1) | <1.0   | 1.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <1.0         |
| Bromodichloromethane                  | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Bromoform                             | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Bromomethane                          | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 2-Butanone                            | 8260B(1) | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| Carbon Disulfide                      | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chlorobenzene                         | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chloroethane                          | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chloroform                            | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Chloromethane                         | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Cumene                                | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Dibromochloromethane                  | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| Ethylbenzene                          | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |
| 2-Hexanone                            | 8260B(1) | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B(1) | <10    | 10              | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <10          |
| Methylene chloride                    | 8260B(1) | <5.0   | 5.0             | ug/l  | MAK     | 07/30/2008    | 0075363-1       | <5.0         |

(Continued)

## REPORT OF LABORATORY ANALYSIS

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**Lab Sample ID: 0807-3322**

**Client Sample ID: TB-01**

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | <2.0 | 2.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | MAK | 07/30/2008 | 0075363-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis.

## REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

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



|                                           |                                                       |                                            |                            |                                   |  |
|-------------------------------------------|-------------------------------------------------------|--------------------------------------------|----------------------------|-----------------------------------|--|
| Section A<br>Required Client Information: |                                                       | Section B<br>Required Project Information: |                            | Section C<br>Invoice Information: |  |
| Company:                                  | URS Corp                                              | Report To:                                 | MARK DOWNEY                | Attention:                        |  |
| Address:                                  | 10000 RIVERVIEW BLVD<br>SUITE 200<br>DALLAS, TX 75220 | Copy To:                                   | VALERIE SIDERO             | Company Name:                     |  |
| Email To:                                 |                                                       | Purchase Order No.:                        | 4150240                    | Address:                          |  |
| Phone:                                    | 214-204-4701                                          | Project Name:                              | 3500 HOPKINS AVE STE 200 N | Pace Quote Reference:             |  |
| Requested Due Date/TAT:                   | 3/20/08                                               | Project Number:                            | 4150240                    | Pace Project Manager:             |  |
|                                           |                                                       |                                            |                            | Pace Profile #:                   |  |

|                                          |  |                                                                                                          |  |                                                         |  |                                |  |                    |  |                           |  |                 |  |               |  |               |  |                                   |  |                            |  |
|------------------------------------------|--|----------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------|--|--------------------------------|--|--------------------|--|---------------------------|--|-----------------|--|---------------|--|---------------|--|-----------------------------------|--|----------------------------|--|
| Section D<br>Required Client Information |  | Matrix Codes<br>MATRIX / CODE                                                                            |  | Matrix Code<br>(see valid codes to left)                |  | Sample Type<br>(G=GRAB C=COMP) |  | Collected          |  | Sample Temp at Collection |  | # of Containers |  | Preservatives |  | Analysis Test |  | Requested Analysis Filtered (Y/N) |  | Pace Project No./ Lab I.D. |  |
| SAMPLE ID<br>(A-Z, 0-9 / .)              |  | Drinking Water<br>Water<br>Waste Water<br>Product<br>Soil/Solid<br>Oil<br>Wipe<br>Air<br>Tissue<br>Other |  | DW<br>WT<br>WW<br>P<br>SL<br>OL<br>WP<br>AR<br>TS<br>OT |  |                                |  | COMPOSITE<br>START |  | COMPOSITE<br>END/GRAB     |  | DATE<br>TIME    |  | DATE<br>TIME  |  | DATE<br>TIME  |  | DATE<br>TIME                      |  | DATE<br>TIME               |  |
| 1 PRE-CARB                               |  |                                                                                                          |  | VW                                                      |  | VW                             |  | 7/24/08            |  | 1035                      |  | 7/24/08         |  | 1300          |  | 7/24/08       |  | 7/24/08                           |  | 7/24/08                    |  |
| 2 PRIMARY-EFF                            |  |                                                                                                          |  | VW                                                      |  | VW                             |  | 7/24/08            |  | 1035                      |  | 7/24/08         |  | 1300          |  | 7/24/08       |  | 7/24/08                           |  | 7/24/08                    |  |
| 3 POST-CARB                              |  |                                                                                                          |  | VW                                                      |  | VW                             |  | 7/24/08            |  | 1100                      |  | 7/24/08         |  | 1300          |  | 7/24/08       |  | 7/24/08                           |  | 7/24/08                    |  |
| 4 POST-CARB                              |  |                                                                                                          |  | VW                                                      |  | VW                             |  | 7/24/08            |  | 1120                      |  | 7/24/08         |  | 1300          |  | 7/24/08       |  | 7/24/08                           |  | 7/24/08                    |  |
| 5 POST-CARB                              |  |                                                                                                          |  | VW                                                      |  | VW                             |  | 7/24/08            |  | 1200                      |  | 7/24/08         |  | 1300          |  | 7/24/08       |  | 7/24/08                           |  | 7/24/08                    |  |
| 6 POST-CARB                              |  |                                                                                                          |  | VW                                                      |  | VW                             |  | 7/24/08            |  | 1230                      |  | 7/24/08         |  | 1300          |  | 7/24/08       |  | 7/24/08                           |  | 7/24/08                    |  |
| 7 PRE-CARB                               |  |                                                                                                          |  | VW                                                      |  | VW                             |  | 7/24/08            |  | 1230                      |  | 7/24/08         |  | 1300          |  | 7/24/08       |  | 7/24/08                           |  | 7/24/08                    |  |
| 8                                        |  |                                                                                                          |  |                                                         |  |                                |  |                    |  |                           |  |                 |  |               |  |               |  |                                   |  |                            |  |
| 9                                        |  |                                                                                                          |  |                                                         |  |                                |  |                    |  |                           |  |                 |  |               |  |               |  |                                   |  |                            |  |
| 10                                       |  |                                                                                                          |  |                                                         |  |                                |  |                    |  |                           |  |                 |  |               |  |               |  |                                   |  |                            |  |
| 11                                       |  |                                                                                                          |  |                                                         |  |                                |  |                    |  |                           |  |                 |  |               |  |               |  |                                   |  |                            |  |
| 12                                       |  |                                                                                                          |  |                                                         |  |                                |  |                    |  |                           |  |                 |  |               |  |               |  |                                   |  |                            |  |



September 5, 2008

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on August 1, 2008. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Parameters printed in italics represent Non-NELAC accredited parameters. Please reference Pace project number 08-6090 when inquiring about this report.

Client Site: Essex-Hope  
Client Ref.: 41568140.10000

| Pace Sample Identification | Client Sample Identification |
|----------------------------|------------------------------|
| 0808-2629                  | Pre-Carb                     |
| 0808-2630                  | Primary-EFF                  |
| 0808-2631                  | Post-Carb                    |
| 0808-2635                  | TB-01                        |

**General Comments:** Cooler temperature 6.1 ° C upon receipt. Ice was present.

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

Sincerely,



Maelyn E. Sylvester  
Project Manager

EC: rec

Enclosures

Page 1 of \_\_\_\_

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

Lab Project ID: 08-6090  
Lab Sample ID: 0808-2629  
Client Sample ID: Pre-Carb  
Sample Matrix: Aqueous

Date Sampled: 08/20/2008  
Date Received: 08/21/2008

Client Site: Essex-Hope  
Client Ref.: 41568140.10000

Volatiles

| Test                           | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|--------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| Volatile Organic Compounds, MS |                      |        |                 |       |         |               |                 |              |
| Acetone                        | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <10          |
| Benzene                        | 8260B <sup>(1)</sup> | 7.5    | 1.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <1.0         |
| Bromodichloromethane           | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Bromoform                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Bromomethane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| 2-Butanone                     | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <10          |
| Carbon Disulfide               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Carbon Tetrachloride           | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Chlorobenzene                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Chloroethane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Chloroform                     | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Chloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Cumene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Dibromochloromethane           | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,2-Dichlorobenzene            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,3-Dichlorobenzene            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,4-Dichlorobenzene            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,1-Dichloroethane             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,2-Dichloroethane             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,1-Dichloroethene             | 8260B <sup>(1)</sup> | 20     | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| cis-1,2-Dichloroethene         | 8260B <sup>(1)</sup> | 4300   | 20              | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| trans-1,2-Dichloroethene       | 8260B <sup>(1)</sup> | 20     | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,2-Dichloropropane            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| cis-1,3-Dichloropropene        | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| trans-1,3-Dichloropropene      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Ethylbenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 2-Hexanone                     | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <10          |
| 4-Methyl-2-pentanone           | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <10          |
| Methylene chloride             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |

Continued)

Lab Sample ID: 0808-2629

Client Sample ID: Pre-Carb

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | 1600 | 20  | ug/l | EAC | 09/03/2008 | 0076417-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | 490  | 40  | ug/l | EAC | 09/03/2008 | 0076417-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis.

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

Lab Project ID: 08-6090  
 Lab Sample ID: 0808-2630  
 Client Sample ID: Primary-EFF  
 Sample Matrix: Aqueous

Date Sampled: 08/20/2008  
 Date Received: 08/21/2008

Client Site: Essex-Hope  
 Client Ref.: 41568140.10000

**Volatiles**

| Test                                  | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |                      |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <10          |
| Benzene                               | 8260B <sup>(1)</sup> | <1.0   | 1.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <1.0         |
| Bromodichloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Bromoform                             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Bromomethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| 2-Butanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <10          |
| Carbon Disulfide                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Chlorobenzene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Chloroethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Chloroform                            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Chloromethane                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Cumene                                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Dibromochloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B <sup>(1)</sup> | 120    | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Ethylbenzene                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 2-Hexanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <10          |
| Methylene chloride                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |

Continued)

Lab Sample ID: 0808-2630  
 Client Sample ID: Primary-EFF

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | 6.6  | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | 400  | 2.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis.

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

Lab Project ID: 08-6090  
Lab Sample ID: 0808-2631  
Client Sample ID: Post-Carb  
Sample Matrix: Aqueous

Date Sampled: 08/20/2008  
Date Received: 08/21/2008

Client Site: Essex-Hope  
Client Ref.: 41568140.10000

Volatiles

| Test                           | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|--------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| Volatile Organic Compounds, MS |                      |        |                 |       |         |               |                 |              |
| Acetone                        | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <10          |
| Benzene                        | 8260B <sup>(1)</sup> | <1.0   | 1.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <1.0         |
| Bromodichloromethane           | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Bromoform                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Bromomethane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | 5.7          |
| 2-Butanone                     | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <10          |
| Carbon Disulfide               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Carbon Tetrachloride           | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Chlorobenzene                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Chloroethane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Chloroform                     | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Chloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Cumene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Dibromochloromethane           | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,2-Dichlorobenzene            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,3-Dichlorobenzene            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,4-Dichlorobenzene            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,1-Dichloroethane             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,2-Dichloroethane             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,1-Dichloroethene             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| cis-1,2-Dichloroethene         | 8260B <sup>(1)</sup> | 59     | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| trans-1,2-Dichloroethene       | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 1,2-Dichloropropane            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| cis-1,3-Dichloropropene        | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| trans-1,3-Dichloropropene      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| Ethylbenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |
| 2-Hexanone                     | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <10          |
| 4-Methyl-2-pentanone           | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <10          |
| Methylene chloride             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/02/2008    | 0076403-1       | <5.0         |

Continued)

Lab Sample ID: 0808-2631  
Client Sample ID: Post-Carb

**/olatiles (Cont.)**

|                           |          |      |     |      |     |            |           |      |
|---------------------------|----------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B(1) | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B(1) | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| Tetrachloroethene         | 8260B(1) | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| Toluene                   | 8260B(1) | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B(1) | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B(1) | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| Trichloroethene           | 8260B(1) | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| Trichlorofluoromethane    | 8260B(1) | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| Vinyl chloride            | 8260B(1) | 39   | 2.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <2.0 |
| o-Xylene                  | 8260B(1) | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |
| m,p-Xylenes               | 8260B(1) | <5.0 | 5.0 | ug/l | EAC | 09/02/2008 | 0076403-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis. Sample 0808-2631 was composited from 4 samples prior to analysis.

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 501 Holiday Drive, Suite 300  
 Pittsburgh, PA 15220

Lab Project ID: 08-6090  
 Lab Sample ID: 0808-2635  
 Client Sample ID: TB-01  
 Sample Matrix: Aqueous

Date Sampled: 08/20/2008  
 Date Received: 08/21/2008

Client Site: Essex-Hope  
 Client Ref.: 41568140.10000

**Volatiles**

| Test                                  | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |                      |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <10          |
| Benzene                               | 8260B <sup>(1)</sup> | <1.0   | 1.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <1.0         |
| Bromodichloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| Bromoform                             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| Bromomethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| 2-Butanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <10          |
| Carbon Disulfide                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| Chlorobenzene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| Chloroethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| Chloroform                            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| Chloromethane                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| Cumene                                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| Dibromochloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| Ethylbenzene                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |
| 2-Hexanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <10          |
| Methylene chloride                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | EAC     | 09/03/2008    | 0076417-1       | <5.0         |

Continued)

Lab Sample ID: 0808-2635

Client Sample ID: TB-01

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | <2.0 | 2.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | EAC | 09/03/2008 | 0076417-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis.



October 3, 2008

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on September 25, 2008. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Parameters printed in *italics* represent Non-NELAC accredited parameters. Please reference Pace project number 08-7113 when inquiring about this report.

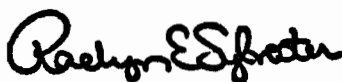
Client Site: Essex-Hope  
Client Ref.: 41568140.10000

| Pace Sample Identification | Client Sample Identification |
|----------------------------|------------------------------|
| 0809-4240                  | Pre-Carb                     |
| 0809-4241                  | Primary - Effluent           |
| 0809-4242                  | Post-Carb                    |
| 0809-4246                  | TB-01                        |

**General Comments:** Cooler temperature 4.9 ° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester  
Project Manager

REC: tew

Enclosures

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## REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope  
Client Ref.: 41568140.10000

**Pace Analytical Services, Inc.**  
1638 Roseytown Rd  
Suites 2, 3 & 4  
Greensburg, PA 15601  
Phone: 724.850.5600  
Fax: 724.850.5601

**Lab Project ID:** 08-7113  
**Lab Sample ID:** 0809-4240  
**Client Sample ID:** Pre-Carb  
**Sample Matrix:** Aqueous

**Date Sampled:** 09/24/2008  
**Date Received:** 09/25/2008

### Volatiles

| Test                                  | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |                      |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <10          |
| Benzene                               | 8260B <sup>(1)</sup> | 7.9    | 1.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <1.0         |
| Bromodichloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Bromoform                             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Bromomethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 2-Butanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <10          |
| Carbon Disulfide                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Chlorobenzene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Chloroethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Chloroform                            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Chloromethane                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Cumene                                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Dibromochloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B <sup>(1)</sup> | 17     | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B <sup>(1)</sup> | 4300   | 20              | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B <sup>(1)</sup> | 44     | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Ethylbenzene                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 2-Hexanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <10          |
| Methylene chloride                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |

(Continued)

## REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0809-4240

Client Sample ID: Pre-Carb

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | 1400 | 20  | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | 680  | 40  | ug/l | JAS | 09/30/2008 | 0077499-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis.

## REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope  
Client Ref.: 41568140.10000

**Pace Analytical Services, Inc.**  
1638 Roseytown Rd  
Suites 2, 3 & 4  
Greensburg, PA 15601  
Phone: 724.850.5600  
Fax: 724.850.5601

**Lab Project ID:** 08-7113  
**Lab Sample ID:** 0809-4241  
**Client Sample ID:** Primary - Effluent  
**Sample Matrix:** Aqueous

**Date Sampled:** 09/24/2008  
**Date Received:** 09/25/2008

### Volatiles

| Test                                  | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |                      |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <10          |
| Benzene                               | 8260B <sup>(1)</sup> | <1.0   | 1.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <1.0         |
| Bromodichloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Bromoform                             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Bromomethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 2-Butanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <10          |
| Carbon Disulfide                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Chlorobenzene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Chloroethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Chloroform                            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Chloromethane                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Cumene                                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Dibromochloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B <sup>(1)</sup> | 1100   | 20              | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Ethylbenzene                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 2-Hexanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <10          |
| Methylene chloride                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |

(Continued)

## REPORT OF LABORATORY ANALYSIS

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**Lab Sample ID: 0809-4241**  
**Client Sample ID: Primary - Effluent**

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | 60   | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | 760  | 40  | ug/l | JAS | 10/02/2008 | 0077601-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis.

## REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope  
Client Ref.: 41568140.10000

**Pace Analytical Services, Inc.**  
1638 Roseytown Rd  
Suites 2, 3 & 4  
Greensburg, PA 15601  
Phone: 724.850.5600  
Fax: 724.850.5601

**Lab Project ID:** 08-7113  
**Lab Sample ID:** 0809-4242  
**Client Sample ID:** Post-Carb  
**Sample Matrix:** Aqueous

**Date Sampled:** 09/24/2008  
**Date Received:** 09/25/2008

### Volatiles

| Test                                  | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |                      |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <10          |
| Benzene                               | 8260B <sup>(1)</sup> | <1.0   | 1.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <1.0         |
| Bromodichloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| Bromoform                             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| Bromomethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| 2-Butanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <10          |
| Carbon Disulfide                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| Chlorobenzene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| Chloroethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| Chloroform                            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| Chloromethane                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| Cumene                                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| Dibromochloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B <sup>(1)</sup> | 35     | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| Ethylbenzene                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |
| 2-Hexanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <10          |
| Methylene chloride                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JAS     | 10/02/2008    | 0077601-1       | <5.0         |

(Continued)

## REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0809-4242

Client Sample ID: Post-Carb

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 10/02/2008 | 0077601-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 10/02/2008 | 0077601-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 10/02/2008 | 0077601-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 10/02/2008 | 0077601-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 10/02/2008 | 0077601-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 10/02/2008 | 0077601-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 10/02/2008 | 0077601-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 10/02/2008 | 0077601-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | 290  | 2.0 | ug/l | JAS | 10/02/2008 | 0077601-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 10/02/2008 | 0077601-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 10/02/2008 | 0077601-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis. This sample was composited from 4 samples prior to analysis.

## REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 08-7113  
Lab Sample ID: 0809-4246  
Client Sample ID: TB-01  
Sample Matrix: Aqueous

Date Sampled: 09/24/2008  
Date Received: 09/25/2008

Client Site: Essex-Hope  
Client Ref.: 41568140.10000

### Volatiles

| Test                                  | Method   | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |          |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B(1) | <10    | 10              | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <10          |
| Benzene                               | 8260B(1) | <1.0   | 1.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <1.0         |
| Bromodichloromethane                  | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Bromoform                             | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Bromomethane                          | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 2-Butanone                            | 8260B(1) | <10    | 10              | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <10          |
| Carbon Disulfide                      | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Chlorobenzene                         | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Chloroethane                          | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Chloroform                            | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Chloromethane                         | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Cumene                                | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Dibromochloromethane                  | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| Ethylbenzene                          | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |
| 2-Hexanone                            | 8260B(1) | <10    | 10              | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B(1) | <10    | 10              | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <10          |
| Methylene chloride                    | 8260B(1) | <5.0   | 5.0             | ug/l  | JAS     | 09/30/2008    | 0077499-1       | <5.0         |

(Continued)

## REPORT OF LABORATORY ANALYSIS

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**Lab Sample ID: 0809-4246**

**Client Sample ID: TB-01**

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | <2.0 | 2.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JAS | 09/30/2008 | 0077499-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis.

## REPORT OF LABORATORY ANALYSIS

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November 11, 2008

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on October 28, 2008. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Parameters printed in italics represent Non-NELAC accredited parameters. Please reference Pace project number 08-7991 when inquiring about this report.

Client Site: Essex-Hope  
Client Ref.: 41568140.10000

| Pace Sample Identification | Client Sample Identification |
|----------------------------|------------------------------|
| 0810-3723                  | Pre-Carb                     |
| 0810-3724                  | Primary Effluent             |
| 0810-3725                  | Post-Carb                    |
| 0810-3729                  | Trip Blank                   |

**General Comments:** Cooler temperature 9.1° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester  
Project Manager

REC: tew

Enclosures

## REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 08-7991  
Lab Sample ID: 0810-3723  
Client Sample ID: Pre-Carb  
Sample Matrix: Aqueous

Date Sampled: 10/27/2008  
Date Received: 10/28/2008

Client Site: Essex-Hope  
Client Ref.: 41568140.10000

### Volatiles

| Test                                  | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |                      |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| Benzene                               | 8260B <sup>(1)</sup> | 9.9    | 1.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <1.0         |
| Bromodichloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Bromoform                             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Bromomethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 2-Butanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| Carbon Disulfide                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chlorobenzene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chloroethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chloroform                            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chloromethane                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Cumene                                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Dibromochloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B <sup>(1)</sup> | 15     | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B <sup>(1)</sup> | 3600   | 50              | ug/l  | JHC     | 10/31/2008    | 0078619-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B <sup>(1)</sup> | 22     | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Ethylbenzene                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 2-Hexanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| Methylene chloride                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |

(Continued)

## REPORT OF LABORATORY ANALYSIS

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**Lab Sample ID: 0810-3723**  
**Client Sample ID: Pre-Carb**

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | 1100 | 50  | ug/l | JHC | 10/31/2008 | 0078619-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | 410  | 100 | ug/l | JHC | 10/31/2008 | 0078619-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis.

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Client Site: Essex-Hope  
Client Ref.: 41568140.10000

**Pace Analytical Services, Inc.**  
1638 Roseytown Rd  
Suites 2, 3 & 4  
Greensburg, PA 15601  
Phone: 724.850.5600  
Fax: 724.850.5601

Lab Project ID: 08-7991  
Lab Sample ID: 0810-3724  
Client Sample ID: Primary Effluent  
Sample Matrix: Aqueous

Date Sampled: 10/27/2008  
Date Received: 10/28/2008

### Volatiles

| Test                                  | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |                      |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| Benzene                               | 8260B <sup>(1)</sup> | <1.0   | 1.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <1.0         |
| Bromodichloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Bromoform                             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Bromomethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 2-Butanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| Carbon Disulfide                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chlorobenzene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chloroethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chloroform                            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chloromethane                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Cumene                                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Dibromochloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B <sup>(1)</sup> | 6.1    | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B <sup>(1)</sup> | 2100   | 50              | ug/l  | JHC     | 10/31/2008    | 0078619-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B <sup>(1)</sup> | 9.2    | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Ethylbenzene                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 2-Hexanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| Methylene chloride                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |

(Continued)

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**Lab Sample ID: 0810-3724**  
**Client Sample ID: Primary Effluent**

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | 44   | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | 460  | 100 | ug/l | JHC | 10/31/2008 | 0078619-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis.

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Pittsburgh, PA 15220

**Lab Project ID:** 08-7991  
**Lab Sample ID:** 0810-3725  
**Client Sample ID:** Post-Carb  
**Sample Matrix:** Aqueous

**Date Sampled:** 10/27/2008  
**Date Received:** 10/28/2008

**Client Site:** Essex-Hope  
**Client Ref.:** 41568140.10000

### Volatiles

| Test                                  | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |                      |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| Benzene                               | 8260B <sup>(1)</sup> | <1.0   | 1.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <1.0         |
| Bromodichloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Bromoform                             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Bromomethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 2-Butanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| Carbon Disulfide                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chlorobenzene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chloroethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chloroform                            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chloromethane                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Cumene                                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Dibromochloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B <sup>(1)</sup> | 31     | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Ethylbenzene                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 2-Hexanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| Methylene chloride                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |

(Continued)

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**Lab Sample ID: 0810-3725**

**Client Sample ID: Post-Carb**

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | 470  | 20  | ug/l | JHC | 10/31/2008 | 0078619-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis. This sample was composited from 4 samples prior to analysis.

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Client Site: Essex-Hope  
Client Ref.: 41568140.10000

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Lab Project ID: 08-7991  
Lab Sample ID: 0810-3729  
Client Sample ID: Trip Blank  
Sample Matrix: Aqueous

Date Sampled: 10/27/2008  
Date Received: 10/28/2008

### Volatiles

| Test                                  | Method               | Result | Reporting Limit | Units | Analyst | Analysis Date | Method Blank ID | Blank Result |
|---------------------------------------|----------------------|--------|-----------------|-------|---------|---------------|-----------------|--------------|
| <b>Volatile Organic Compounds, MS</b> |                      |        |                 |       |         |               |                 |              |
| Acetone                               | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| Benzene                               | 8260B <sup>(1)</sup> | <1.0   | 1.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <1.0         |
| Bromodichloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Bromoform                             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Bromomethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 2-Butanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| Carbon Disulfide                      | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Carbon Tetrachloride                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chlorobenzene                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chloroethane                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chloroform                            | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Chloromethane                         | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Cumene                                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Dibromochloromethane                  | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,2-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,3-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,4-Dichlorobenzene                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,1-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,2-Dichloroethane                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,1-Dichloroethene                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| cis-1,2-Dichloroethene                | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| trans-1,2-Dichloroethene              | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 1,2-Dichloropropane                   | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| cis-1,3-Dichloropropene               | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| trans-1,3-Dichloropropene             | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| Ethylbenzene                          | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |
| 2-Hexanone                            | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| 4-Methyl-2-pentanone                  | 8260B <sup>(1)</sup> | <10    | 10              | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <10          |
| Methylene chloride                    | 8260B <sup>(1)</sup> | <5.0   | 5.0             | ug/l  | JHC     | 10/30/2008    | 0078572-1       | <5.0         |

(Continued)

## REPORT OF LABORATORY ANALYSIS

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**Lab Sample ID: 0810-3729**  
**Client Sample ID: Trip Blank**

**Volatiles (Cont.)**

|                           |                      |      |     |      |     |            |           |      |
|---------------------------|----------------------|------|-----|------|-----|------------|-----------|------|
| Styrene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| 1,1,2,2-Tetrachloroethane | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Tetrachloroethene         | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Toluene                   | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| 1,1,1-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| 1,1,2-Trichloroethane     | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Trichloroethene           | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Trichlorofluoromethane    | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| Vinyl chloride            | 8260B <sup>(1)</sup> | <2.0 | 2.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <2.0 |
| o-Xylene                  | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |
| m,p-Xylenes               | 8260B <sup>(1)</sup> | <5.0 | 5.0 | ug/l | JHC | 10/30/2008 | 0078572-1 | <5.0 |

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

**Sample Comments:** Results reported on an as received basis.

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# CHAIN-OF-CUSTODY / Analytical Request Document

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

|                                                            |                                |                                         |            |                                                                                                                                                                                                           |  |
|------------------------------------------------------------|--------------------------------|-----------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Section A</b>                                           |                                | <b>Section B</b>                        |            | <b>Section C</b>                                                                                                                                                                                          |  |
| Required Client Information:                               |                                | Required Project Information:           |            | Invoice Information:                                                                                                                                                                                      |  |
| Company: <b>URS CORP</b>                                   | Report To: <b>MARK DOWIAK</b>  | Company Name:                           | Attention: | Page: <b>1</b> of <b>1</b>                                                                                                                                                                                |  |
| Address: <b>PO BOX 400000<br/>WASHINGTON DC 20040-0000</b> | Copy To: <b>VALERIE SIBERO</b> | Address:                                |            | Project No: <b>1252305</b>                                                                                                                                                                                |  |
| Email To:                                                  |                                | Purchase Order No: <b>41565140</b>      |            | REGULATORY AGENCY                                                                                                                                                                                         |  |
| Phone: <b>202-322-4700</b>                                 | Fax: <b>202-322-4701</b>       | Project Name: <b>ESB/ALPGE CAMESTON</b> |            | <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER<br><input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER |  |
| Requested Due Date/TAT: <b>STANDARD</b>                    |                                | Project Number: <b>41565140-10000</b>   |            | Site Location: <b>NY</b><br>STATE:                                                                                                                                                                        |  |

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX / CODE | COLLECTED       |                    | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives                  |                  |     |      |                                               |          |       | Analysis Test ↑ | Y/N ↓ | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No. / Lab I.D. |
|--------|------------------------------------------|-------------------------------|-----------------|--------------------|---------------------------|-----------------|--------------------------------|------------------|-----|------|-----------------------------------------------|----------|-------|-----------------|-------|-----------------------------------|-------------------------|-----------------------------|
|        |                                          |                               | COMPOSITE START | COMPOSITE END/GRAB |                           |                 | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | Methanol | Other |                 |       |                                   |                         |                             |
| 1      | PRE-GRAB                                 | DW                            | DATE            | TIME               | DATE                      | TIME            |                                |                  |     |      |                                               |          |       |                 |       |                                   |                         |                             |
| 2      | POST-GRAB - EFT                          | WT                            | 10/23/03        | 1230               |                           |                 |                                |                  |     |      |                                               |          |       |                 |       |                                   |                         |                             |
| 3      | POST-GRAB                                | WW                            |                 | 1235               |                           |                 |                                |                  |     |      |                                               |          |       |                 |       |                                   |                         |                             |
| 4      | POST-GRAB                                | P                             |                 | 1240               |                           |                 |                                |                  |     |      |                                               |          |       |                 |       |                                   |                         |                             |
| 5      | POST-GRAB                                | SL                            |                 | 1310               |                           |                 |                                |                  |     |      |                                               |          |       |                 |       |                                   |                         |                             |
| 6      | POST-GRAB                                | Oil                           |                 | 1340               |                           |                 |                                |                  |     |      |                                               |          |       |                 |       |                                   |                         |                             |
| 7      | POST-GRAB                                | Wipe                          |                 | 1410               |                           |                 |                                |                  |     |      |                                               |          |       |                 |       |                                   |                         |                             |
| 8      | TD-01                                    | Wipe                          |                 |                    |                           |                 |                                |                  |     |      |                                               |          |       |                 |       |                                   |                         |                             |
| 9      |                                          | Air                           |                 |                    |                           |                 |                                |                  |     |      |                                               |          |       |                 |       |                                   |                         |                             |
| 10     |                                          | Tissue                        |                 |                    |                           |                 |                                |                  |     |      |                                               |          |       |                 |       |                                   |                         |                             |
| 11     |                                          | Other                         |                 |                    |                           |                 |                                |                  |     |      |                                               |          |       |                 |       |                                   |                         |                             |
| 12     |                                          |                               |                 |                    |                           |                 |                                |                  |     |      |                                               |          |       |                 |       |                                   |                         |                             |

|                                                                                                                                                                    |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Section E</b>                                                                                                                                                   |                      |
| Additional Comments:                                                                                                                                               |                      |
| COMPOSITE FOR (4) POST-GRAB<br>SAMPLES IN LAB AND<br>REPORT AS POST-GRAB<br>COMPOSITE.                                                                             |                      |
| RELINQUISHED BY / AFFILIATION: <b>URS</b> DATE: <b>10/27/03</b> TIME: <b>1430</b><br>ACCEPTED BY / AFFILIATION: <b>URS</b> DATE: <b>10/27/03</b> TIME: <b>1430</b> |                      |
| SAMPLE CONDITIONS:                                                                                                                                                 |                      |
| Temp in °C                                                                                                                                                         | Received on (Y/N)    |
| Custody Sealed Cooler (Y/N)                                                                                                                                        | Samples Intact (Y/N) |



December 10, 2008

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

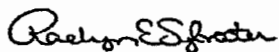
RE: Project: Essex/Hope Jamestown  
Pace Project No.: 301489

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on November 26, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC 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,



Raelyn Sylvester

raelyn.sylvester@pacelabs.com  
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Essex/Hope Jamestown  
Pace Project No.: 301489

| Lab ID    | Sample ID   | Method   | Analysts | Analytes Reported | Laboratory |
|-----------|-------------|----------|----------|-------------------|------------|
| 301489001 | PRE-CARB    | EPA 8260 | JAS      | 42                | PASI-PA    |
| 301489002 | PRIMARY-EFF | EPA 8260 | JAS      | 42                | PASI-PA    |
| 301489003 | POST-CARB   | EPA 8260 | JAS      | 42                | PASI-PA    |
| 301489004 | TB-01       | EPA 8260 | JAS      | 42                | PASI-PA    |

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Essex/Hope Jamestown  
Pace Project No.: 301489

---

**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** URS Corporation  
**Date:** December 10, 2008

### General Information:

4 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (Including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/1080

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 4638)
  - Bromomethane
  - Chloroethane
  - Trichlorofluoromethane
- LCSD (Lab ID: 4639)
  - Bromomethane
  - Chloroethane
  - Trichlorofluoromethane

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 301489

| Sample: PRE-CARB            |         | Lab ID: 301489001           | Collected: 11/25/08 12:15 |    | Received: 11/26/08 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  |                          | 12/01/08 15:43 | 67-64-1       |      |
| Benzene                     | 6.6     | ug/L                        | 1.0                       | 1  |                          | 12/01/08 15:43 | 71-43-2       |      |
| Bromodichloromethane        | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 75-27-4       |      |
| Bromoform                   | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 75-25-2       |      |
| Bromomethane                | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 74-83-9       |      |
| 2-Butanone (MEK)            | ND      | ug/L                        | 10.0                      | 1  |                          | 12/01/08 15:43 | 78-93-3       |      |
| Carbon disulfide            | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 75-15-0       |      |
| Carbon tetrachloride        | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 56-23-5       |      |
| Chlorobenzene               | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 108-90-7      |      |
| Chloroethane                | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 75-00-3       |      |
| Chloroform                  | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 67-66-3       |      |
| Chloromethane               | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 74-87-3       |      |
| Dibromochloromethane        | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 124-48-1      |      |
| 1,2-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 95-50-1       |      |
| 1,3-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 541-73-1      |      |
| 1,4-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 106-46-7      |      |
| 1,1-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 75-34-3       |      |
| 1,2-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 107-06-2      |      |
| 1,1-Dichloroethene          | 17.1    | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 75-35-4       |      |
| cis-1,2-Dichloroethene      | 4850    | ug/L                        | 250                       | 50 |                          | 12/02/08 16:19 | 156-59-2      |      |
| trans-1,2-Dichloroethene    | 69.4    | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 156-60-5      |      |
| 1,2-Dichloropropane         | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 78-87-5       |      |
| cis-1,3-Dichloropropene     | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 10061-01-5    |      |
| trans-1,3-Dichloropropene   | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 10061-02-6    |      |
| Ethylbenzene                | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 100-41-4      |      |
| 2-Hexanone                  | ND      | ug/L                        | 10.0                      | 1  |                          | 12/01/08 15:43 | 591-78-6      |      |
| Methylene Chloride          | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 75-09-2       |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/L                        | 10.0                      | 1  |                          | 12/01/08 15:43 | 108-10-1      |      |
| Styrene                     | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 100-42-5      |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 79-34-5       |      |
| Tetrachloroethene           | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 127-18-4      |      |
| Toluene                     | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 108-88-3      |      |
| 1,1,1-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 71-55-6       |      |
| 1,1,2-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 79-00-5       |      |
| Trichloroethene             | 1030    | ug/L                        | 250                       | 50 |                          | 12/02/08 16:19 | 79-01-6       |      |
| Trichlorofluoromethane      | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 75-69-4       |      |
| Vinyl chloride              | 601     | ug/L                        | 50.0                      | 50 |                          | 12/02/08 16:19 | 75-01-4       |      |
| m&p-Xylene                  | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 1330-20-7     |      |
| o-Xylene                    | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 15:43 | 95-47-6       |      |
| 4-Bromofluorobenzene (S)    | 107     | %                           | 70-130                    | 1  |                          | 12/01/08 15:43 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)   | 102     | %                           | 70-130                    | 1  |                          | 12/01/08 15:43 | 17060-07-0    |      |
| Toluene-d8 (S)              | 109     | %                           | 70-130                    | 1  |                          | 12/01/08 15:43 | 2037-26-5     |      |

## ANALYTICAL RESULTS

Project: Essex/Hope Jamestown  
Pace Project No.: 301489

| Sample: PRIMARY-EFF         |         | Lab ID: 301489002           | Collected: 11/25/08 12:20 |    | Received: 11/26/08 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  |                          | 12/01/08 16:08 | 67-64-1       |      |
| Benzene                     | ND      | ug/L                        | 1.0                       | 1  |                          | 12/01/08 16:08 | 71-43-2       |      |
| Bromodichloromethane        | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 75-27-4       |      |
| Bromoform                   | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 75-25-2       |      |
| Bromomethane                | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 74-83-9       |      |
| 2-Butanone (MEK)            | ND      | ug/L                        | 10.0                      | 1  |                          | 12/01/08 16:08 | 78-93-3       |      |
| Carbon disulfide            | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 75-15-0       |      |
| Carbon tetrachloride        | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 56-23-5       |      |
| Chlorobenzene               | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 108-90-7      |      |
| Chloroethane                | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 75-00-3       |      |
| Chloroform                  | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 67-66-3       |      |
| Chloromethane               | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 74-87-3       |      |
| Dibromochloromethane        | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 124-48-1      |      |
| 1,2-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 95-50-1       |      |
| 1,3-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 541-73-1      |      |
| 1,4-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 106-46-7      |      |
| 1,1-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 75-34-3       |      |
| 1,2-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 107-06-2      |      |
| 1,1-Dichloroethene          | 10.1    | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 75-35-4       |      |
| cis-1,2-Dichloroethene      | 3300    | ug/L                        | 200                       | 40 |                          | 12/02/08 16:44 | 156-59-2      |      |
| trans-1,2-Dichloroethene    | 22.2    | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 156-60-5      |      |
| 1,2-Dichloropropane         | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 78-87-5       |      |
| cis-1,3-Dichloropropene     | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 10061-01-5    |      |
| trans-1,3-Dichloropropene   | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 10061-02-6    |      |
| Ethylbenzene                | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 100-41-4      |      |
| 2-Hexanone                  | ND      | ug/L                        | 10.0                      | 1  |                          | 12/01/08 16:08 | 591-78-6      |      |
| Methylene Chloride          | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 75-09-2       |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/L                        | 10.0                      | 1  |                          | 12/01/08 16:08 | 108-10-1      |      |
| Styrene                     | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 100-42-5      |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 79-34-5       |      |
| Tetrachloroethene           | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 127-18-4      |      |
| Toluene                     | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 108-88-3      |      |
| 1,1,1-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 71-55-6       |      |
| 1,1,2-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 79-00-5       |      |
| Trichloroethene             | 52.5    | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 79-01-6       |      |
| Trichlorofluoromethane      | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 75-69-4       |      |
| Vinyl chloride              | 716     | ug/L                        | 40.0                      | 40 |                          | 12/02/08 16:44 | 75-01-4       |      |
| m&p-Xylene                  | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 1330-20-7     |      |
| o-Xylene                    | ND      | ug/L                        | 5.0                       | 1  |                          | 12/01/08 16:08 | 95-47-6       |      |
| 4-Bromofluorobenzene (S)    | 111     | %                           | 70-130                    | 1  |                          | 12/01/08 16:08 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)   | 101     | %                           | 70-130                    | 1  |                          | 12/01/08 16:08 | 17060-07-0    |      |
| Toluene-d8 (S)              | 104     | %                           | 70-130                    | 1  |                          | 12/01/08 16:08 | 2037-26-5     |      |

## ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 301489

| Sample: POST-CARB           |         | Lab ID: 301489003           | Collected: 11/25/08 12:25 | Received: 11/26/08 10:30 | Matrix: Water |                |            |      |
|-----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                  | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Acetone                     | ND      | ug/L                        | 10.0                      | 1                        |               | 12/01/08 16:34 | 67-64-1    |      |
| Benzene                     | ND      | ug/L                        | 1.0                       | 1                        |               | 12/01/08 16:34 | 71-43-2    |      |
| Bromodichloromethane        | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 75-27-4    |      |
| Bromoform                   | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 75-25-2    |      |
| Bromomethane                | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/L                        | 10.0                      | 1                        |               | 12/01/08 16:34 | 78-93-3    |      |
| Carbon disulfide            | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 108-90-7   |      |
| Chloroethane                | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 75-00-3    |      |
| Chloroform                  | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 67-66-3    |      |
| Chloromethane               | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 74-87-3    |      |
| Dibromochloromethane        | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 124-48-1   |      |
| 1,2-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 106-46-7   |      |
| 1,1-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | 23.8    | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 78-87-5    |      |
| cis-1,3-Dichloropropene     | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 100-41-4   |      |
| 2-Hexanone                  | ND      | ug/L                        | 10.0                      | 1                        |               | 12/01/08 16:34 | 591-78-6   |      |
| Methylene Chloride          | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/L                        | 10.0                      | 1                        |               | 12/01/08 16:34 | 108-10-1   |      |
| Styrene                     | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 100-42-5   |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 79-34-5    |      |
| Tetrachloroethene           | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 127-18-4   |      |
| Toluene                     | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 108-88-3   |      |
| 1,1,1-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 79-00-5    |      |
| Trichloroethene             | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 79-01-6    |      |
| Trichlorofluoromethane      | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 75-69-4    |      |
| Vinyl chloride              | 620     | ug/L                        | 10.0                      | 10                       |               | 12/02/08 17:09 | 75-01-4    |      |
| m&p-Xylene                  | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 1330-20-7  |      |
| o-Xylene                    | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:34 | 95-47-6    |      |
| 4-Bromofluorobenzene (S)    | 112     | %                           | 70-130                    | 1                        |               | 12/01/08 16:34 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 106     | %                           | 70-130                    | 1                        |               | 12/01/08 16:34 | 17060-07-0 |      |
| Toluene-d8 (S)              | 99      | %                           | 70-130                    | 1                        |               | 12/01/08 16:34 | 2037-26-5  |      |

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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 301489

| Sample: TB-01               |         | Lab ID: 301489004           | Collected: 11/25/08 00:00 | Received: 11/26/08 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                        |               | 12/01/08 16:59 | 67-64-1    |      |
| Benzene                     | ND      | ug/L                        | 1.0                       | 1                        |               | 12/01/08 16:59 | 71-43-2    |      |
| Bromodichloromethane        | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 75-27-4    |      |
| Bromoform                   | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 75-25-2    |      |
| Bromomethane                | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/L                        | 10.0                      | 1                        |               | 12/01/08 16:59 | 78-93-3    |      |
| Carbon disulfide            | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 108-90-7   |      |
| Chloroethane                | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 75-00-3    |      |
| Chloroform                  | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 67-66-3    |      |
| Chloromethane               | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 74-87-3    |      |
| Dibromochloromethane        | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 124-48-1   |      |
| 1,2-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 106-46-7   |      |
| 1,1-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 78-87-5    |      |
| cis-1,3-Dichloropropene     | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 100-41-4   |      |
| 2-Hexanone                  | ND      | ug/L                        | 10.0                      | 1                        |               | 12/01/08 16:59 | 591-78-6   |      |
| Methylene Chloride          | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/L                        | 10.0                      | 1                        |               | 12/01/08 16:59 | 108-10-1   |      |
| Styrene                     | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 100-42-5   |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 79-34-5    |      |
| Tetrachloroethene           | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 127-18-4   |      |
| Toluene                     | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 108-88-3   |      |
| 1,1,1-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 79-00-5    |      |
| Trichloroethene             | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 79-01-6    |      |
| Trichlorofluoromethane      | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 75-69-4    |      |
| Vinyl chloride              | ND      | ug/L                        | 1.0                       | 1                        |               | 12/01/08 16:59 | 75-01-4    |      |
| m&p-Xylene                  | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 1330-20-7  |      |
| o-Xylene                    | ND      | ug/L                        | 5.0                       | 1                        |               | 12/01/08 16:59 | 95-47-6    |      |
| 4-Bromofluorobenzene (S)    | 113     | %                           | 70-130                    | 1                        |               | 12/01/08 16:59 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 108     | %                           | 70-130                    | 1                        |               | 12/01/08 16:59 | 17060-07-0 |      |
| Toluene-d8 (S)              | 100     | %                           | 70-130                    | 1                        |               | 12/01/08 16:59 | 2037-26-5  |      |

## QUALITY CONTROL DATA

Project: Essex/Hope Jamestown  
Pace Project No.: 301489

QC Batch: MSV/1080 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 301489001, 301489002, 301489003, 301489004

METHOD BLANK: 4637 Matrix: Water

Associated Lab Samples: 301489001, 301489002, 301489003, 301489004

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane       | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| 1,1,2-Trichloroethane       | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| 1,1-Dichloroethane          | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| 1,1-Dichloroethene          | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| 1,2-Dichlorobenzene         | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| 1,2-Dichloroethane          | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| 1,2-Dichloropropane         | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| 1,3-Dichlorobenzene         | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| 1,4-Dichlorobenzene         | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| 2-Butanone (MEK)            | ug/L  | ND           | 10.0            | 12/01/08 13:35 |            |
| 2-Hexanone                  | ug/L  | ND           | 10.0            | 12/01/08 13:35 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND           | 10.0            | 12/01/08 13:35 |            |
| Acetone                     | ug/L  | ND           | 10.0            | 12/01/08 13:35 |            |
| Benzene                     | ug/L  | ND           | 1.0             | 12/01/08 13:35 |            |
| Bromodichloromethane        | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Bromoform                   | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Bromomethane                | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Carbon disulfide            | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Carbon tetrachloride        | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Chlorobenzene               | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Chloroethane                | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Chloroform                  | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Chloromethane               | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| cis-1,2-Dichloroethene      | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| cis-1,3-Dichloropropene     | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Dibromochloromethane        | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Ethylbenzene                | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| m&p-Xylene                  | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Methylene Chloride          | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| o-Xylene                    | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Styrene                     | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Tetrachloroethene           | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Toluene                     | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| trans-1,2-Dichloroethene    | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| trans-1,3-Dichloropropene   | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Trichloroethene             | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Trichlorofluoromethane      | ug/L  | ND           | 5.0             | 12/01/08 13:35 |            |
| Vinyl chloride              | ug/L  | ND           | 1.0             | 12/01/08 13:35 |            |
| 1,2-Dichloroethane-d4 (S)   | %     | 103          | 70-130          | 12/01/08 13:35 |            |
| 4-Bromofluorobenzene (S)    | %     | 111          | 70-130          | 12/01/08 13:35 |            |
| Toluene-d8 (S)              | %     | 101          | 70-130          | 12/01/08 13:35 |            |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Essex/Hope Jamestown

Pace Project No.: 301489

| LABORATORY CONTROL SAMPLE & LCSD: 4638 |       |             | 4639       |             |           |            |              |     |         |            |
|----------------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Parameter                              | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
| 1,1,1-Trichloroethane                  | ug/L  | 20          | 21.9       | 21.5        | 109       | 108        | 70-130       | 2   | 30      |            |
| 1,1,2,2-Tetrachloroethane              | ug/L  | 20          | 20.9       | 21.1        | 104       | 106        | 70-130       | 1   | 30      |            |
| 1,1,2-Trichloroethane                  | ug/L  | 20          | 21.8       | 21.9        | 109       | 109        | 70-130       | .5  | 30      |            |
| 1,1-Dichloroethane                     | ug/L  | 20          | 20.5       | 20.2        | 102       | 101        | 70-130       | 1   | 30      |            |
| 1,1-Dichloroethene                     | ug/L  | 20          | 20.1       | 19.3        | 100       | 97         | 70-130       | 4   | 30      |            |
| 1,2-Dichlorobenzene                    | ug/L  | 20          | 20.2       | 20.5        | 101       | 103        | 70-130       | 2   | 30      |            |
| 1,2-Dichloroethane                     | ug/L  | 20          | 20.1       | 19.7        | 101       | 98         | 70-130       | 2   | 30      |            |
| 1,2-Dichloropropane                    | ug/L  | 20          | 20.7       | 20.7        | 104       | 103        | 70-130       | .4  | 30      |            |
| 1,3-Dichlorobenzene                    | ug/L  | 20          | 20.6       | 20.9        | 103       | 104        | 70-130       | 2   | 30      |            |
| 1,4-Dichlorobenzene                    | ug/L  | 20          | 20.4       | 20.3        | 102       | 101        | 70-130       | .4  | 30      |            |
| 2-Butanone (MEK)                       | ug/L  | 20          | 17.8       | 17.8        | 89        | 89         | 70-130       | .3  | 30      |            |
| 2-Hexanone                             | ug/L  | 20          | 19.7       | 19.0        | 98        | 95         | 70-130       | 4   | 30      |            |
| 4-Methyl-2-pentanone (MIBK)            | ug/L  | 20          | 20.1       | 19.9        | 100       | 99         | 70-130       | .9  | 30      |            |
| Acetone                                | ug/L  | 20          | 16.7       | 16.0        | 84        | 80         | 70-130       | 4   | 30      |            |
| Benzene                                | ug/L  | 20          | 20.6       | 20.6        | 103       | 103        | 70-130       | .09 | 30      |            |
| Bromodichloromethane                   | ug/L  | 20          | 19.7       | 19.9        | 99        | 100        | 70-130       | 1   | 30      |            |
| Bromoform                              | ug/L  | 20          | 20.8       | 21.2        | 104       | 106        | 70-130       | 2   | 30      |            |
| Bromomethane                           | ug/L  | 20          | 11.4       | 10.6        | 57        | 53         | 70-130       | 7   | 30      | L0         |
| Carbon disulfide                       | ug/L  | 20          | 15.7       | 16.6        | 79        | 83         | 70-130       | 5   | 30      |            |
| Carbon tetrachloride                   | ug/L  | 20          | 21.9       | 22.1        | 110       | 110        | 70-130       | .6  | 30      |            |
| Chlorobenzene                          | ug/L  | 20          | 21.1       | 21.2        | 105       | 106        | 70-130       | .7  | 30      |            |
| Chloroethane                           | ug/L  | 20          | 32.2       | 30.6        | 161       | 153        | 70-130       | 5   | 30      | L0         |
| Chloroform                             | ug/L  | 20          | 21.6       | 22.0        | 108       | 110        | 70-130       | 2   | 30      |            |
| Chloromethane                          | ug/L  | 20          | 22.0       | 21.7        | 110       | 109        | 70-130       | 1   | 30      |            |
| cis-1,2-Dichloroethene                 | ug/L  | 20          | 20.7       | 20.7        | 104       | 104        | 70-130       | .07 | 30      |            |
| cis-1,3-Dichloropropene                | ug/L  | 20          | 19.6       | 19.8        | 98        | 99         | 70-130       | 1   | 30      |            |
| Dibromochloromethane                   | ug/L  | 20          | 20.1       | 20.0        | 101       | 100        | 70-130       | .5  | 30      |            |
| Ethylbenzene                           | ug/L  | 20          | 20.1       | 20.7        | 100       | 103        | 70-130       | 3   | 30      |            |
| m&p-Xylene                             | ug/L  | 40          | 43.1       | 43.8        | 108       | 110        | 70-130       | 2   | 30      |            |
| Methylene Chloride                     | ug/L  | 20          | 21.9       | 21.8        | 109       | 109        | 70-130       | .5  | 30      |            |
| o-Xylene                               | ug/L  | 20          | 20.0       | 21.0        | 100       | 105        | 70-130       | 5   | 30      |            |
| Styrene                                | ug/L  | 20          | 19.4       | 19.6        | 97        | 98         | 70-130       | 1   | 30      |            |
| Tetrachloroethene                      | ug/L  | 20          | 20.0       | 20.8        | 100       | 104        | 70-130       | 4   | 30      |            |
| Toluene                                | ug/L  | 20          | 20.6       | 20.8        | 103       | 104        | 70-130       | .9  | 30      |            |
| trans-1,2-Dichloroethene               | ug/L  | 20          | 19.8       | 20.5        | 99        | 102        | 70-130       | 3   | 30      |            |
| trans-1,3-Dichloropropene              | ug/L  | 20          | 20.2       | 19.9        | 101       | 99         | 70-130       | 1   | 30      |            |
| Trichloroethene                        | ug/L  | 20          | 19.7       | 19.3        | 98        | 96         | 70-130       | 2   | 30      |            |
| Trichlorofluoromethane                 | ug/L  | 20          | 12.6       | 13.4        | 63        | 67         | 70-130       | 6   | 30      | L0         |
| Vinyl chloride                         | ug/L  | 20          | 21.7       | 23.1        | 108       | 116        | 70-130       | 7   | 30      |            |
| 1,2-Dichloroethane-d4 (S)              | %     |             |            |             | 105       | 110        | 70-130       |     |         |            |
| 4-Bromofluorobenzene (S)               | %     |             |            |             | 102       | 107        | 70-130       |     |         |            |
| Toluene-d8 (S)                         | %     |             |            |             | 110       | 111        | 70-130       |     |         |            |

## QUALIFIERS

Project: Essex/Hope Jamestown  
Pace Project No.: 301489

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### 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.

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

### LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

### ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex/Hope Jamestown  
Pace Project No.: 301489

| Lab ID    | Sample ID   | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-----------|-------------|-----------------|----------|-------------------|------------------|
| 301489001 | PRE-CARB    | EPA 8260        | MSV/1080 |                   |                  |
| 301489002 | PRIMARY-EFF | EPA 8260        | MSV/1080 |                   |                  |
| 301489003 | POST-CARB   | EPA 8260        | MSV/1080 |                   |                  |
| 301489004 | TB-01       | EPA 8260        | MSV/1080 |                   |                  |





# Sample Condition Upon Receipt

Client Name: URS

Project # 301489

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

Tracking #: 81650 4453 9178

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

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other \_\_\_\_\_

Thermometer Used 3 4

Type of Ice: Wet Blue None ☐

☐ Samples on ice, cooling process has begun

Cooler Temperature 7.9

Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: JP 11/26/08

Temp should be above freezing to 6°C

Comments:

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

Rachon E. Shuter

Date: 12/1/08

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)



December 24, 2008

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

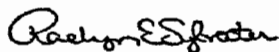
RE: Project: Essex/Hope Jamestown  
Pace Project No.: 302283

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC 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,



Raelyn Sylvester

raelyn.sylvester@pacelabs.com  
Project Manager

Enclosures

## REPORT OF LABORATORY ANALYSIS

Page 1 of 10

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## SAMPLE ANALYTE COUNT

Project: Essex/Hope Jamestown  
Pace Project No.: 302283

| Lab ID    | Sample ID   | Method   | Analysts | Analytes Reported | Laboratory |
|-----------|-------------|----------|----------|-------------------|------------|
| 302283001 | Pre-Carb    | EPA 8260 | JAS      | 42                | PASI-PA    |
| 302283002 | Primary-Eff | EPA 8260 | JAS      | 42                | PASI-PA    |
| 302283003 | Post Carb   | EPA 8260 | JAS      | 42                | PASI-PA    |
| 302283004 | TB-01       | EPA 8260 | JAS      | 42                | PASI-PA    |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Essex/Hope Jamestown  
Pace Project No.: 302283

| Sample: Pre-Carb            |           | Lab ID: 302283001           | Collected: 12/11/08 09:15 |    | Received: 12/12/08 10:00 |                | Matrix: Water |      |
|-----------------------------|-----------|-----------------------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                  | Results   | Units                       | Report Limit              | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| 8260 MSV                    |           | Analytical Method: EPA 8260 |                           |    |                          |                |               |      |
| Acetone                     | 35.9 ug/L |                             | 10.0                      | 1  |                          | 12/16/08 19:49 | 67-64-1       |      |
| Benzene                     | 9.8 ug/L  |                             | 1.0                       | 1  |                          | 12/16/08 19:49 | 71-43-2       |      |
| Bromodichloromethane        | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 75-27-4       |      |
| Bromoform                   | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 75-25-2       |      |
| Bromomethane                | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 74-83-9       |      |
| 2-Butanone (MEK)            | ND ug/L   |                             | 10.0                      | 1  |                          | 12/16/08 19:49 | 78-93-3       |      |
| Carbon disulfide            | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 75-15-0       |      |
| Carbon tetrachloride        | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 56-23-5       |      |
| Chlorobenzene               | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 108-90-7      |      |
| Chloroethane                | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 75-00-3       |      |
| Chloroform                  | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 67-66-3       |      |
| Chloromethane               | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 74-87-3       |      |
| Dibromochloromethane        | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 124-48-1      |      |
| 1,2-Dichlorobenzene         | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 95-50-1       |      |
| 1,3-Dichlorobenzene         | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 541-73-1      |      |
| 1,4-Dichlorobenzene         | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 106-46-7      |      |
| 1,1-Dichloroethane          | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 75-34-3       |      |
| 1,2-Dichloroethane          | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 107-06-2      |      |
| 1,1-Dichloroethene          | 11.3 ug/L |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 75-35-4       |      |
| cis-1,2-Dichloroethene      | 3330 ug/L |                             | 200                       | 40 |                          | 12/16/08 20:14 | 156-59-2      |      |
| trans-1,2-Dichloroethene    | 44.0 ug/L |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 156-60-5      |      |
| 1,2-Dichloropropane         | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 78-87-5       |      |
| cis-1,3-Dichloropropene     | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 10061-01-5    |      |
| trans-1,3-Dichloropropene   | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 10061-02-6    |      |
| Ethylbenzene                | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 100-41-4      |      |
| 2-Hexanone                  | ND ug/L   |                             | 10.0                      | 1  |                          | 12/16/08 19:49 | 591-78-6      |      |
| Methylene Chloride          | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 75-09-2       |      |
| 4-Methyl-2-pentanone (MIBK) | ND ug/L   |                             | 10.0                      | 1  |                          | 12/16/08 19:49 | 108-10-1      |      |
| Styrene                     | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 100-42-5      |      |
| 1,1,2,2-Tetrachloroethane   | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 79-34-5       |      |
| Tetrachloroethene           | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 127-18-4      |      |
| Toluene                     | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 108-88-3      |      |
| 1,1,1-Trichloroethane       | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 71-55-6       |      |
| 1,1,2-Trichloroethane       | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 79-00-5       |      |
| Trichloroethene             | 1700 ug/L |                             | 200                       | 40 |                          | 12/16/08 20:14 | 79-01-6       |      |
| Trichlorofluoromethane      | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 75-69-4       |      |
| Vinyl chloride              | 343 ug/L  |                             | 1.0                       | 1  |                          | 12/16/08 19:49 | 75-01-4       |      |
| m&p-Xylene                  | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 1330-20-7     |      |
| o-Xylene                    | ND ug/L   |                             | 5.0                       | 1  |                          | 12/16/08 19:49 | 95-47-6       |      |
| 4-Bromofluorobenzene (S)    | 99 %      |                             | 70-130                    | 1  |                          | 12/16/08 19:49 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)   | 101 %     |                             | 70-130                    | 1  |                          | 12/16/08 19:49 | 17060-07-0    |      |
| Toluene-d8 (S)              | 97 %      |                             | 70-130                    | 1  |                          | 12/16/08 19:49 | 2037-26-5     |      |

## ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 302283

| Sample: Primary-Eff         |         | Lab ID: 302283002           | Collected: 12/11/08 09:20 |    | Received: 12/12/08 10:00 |                | Matrix: Water |      |
|-----------------------------|---------|-----------------------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                  | Results | Units                       | Report Limit              | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8260 MSV</b>             |         | Analytical Method: EPA 8260 |                           |    |                          |                |               |      |
| Acetone                     | ND      | ug/L                        | 10.0                      | 1  |                          | 12/16/08 20:39 | 67-64-1       |      |
| Benzene                     | ND      | ug/L                        | 1.0                       | 1  |                          | 12/16/08 20:39 | 71-43-2       |      |
| Bromodichloromethane        | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 75-27-4       |      |
| Bromoform                   | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 75-25-2       |      |
| Bromomethane                | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 74-83-9       |      |
| 2-Butanone (MEK)            | ND      | ug/L                        | 10.0                      | 1  |                          | 12/16/08 20:39 | 78-93-3       |      |
| Carbon disulfide            | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 75-15-0       |      |
| Carbon tetrachloride        | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 56-23-5       |      |
| Chlorobenzene               | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 108-90-7      |      |
| Chloroethane                | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 75-00-3       |      |
| Chloroform                  | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 67-66-3       |      |
| Chloromethane               | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 74-87-3       |      |
| Dibromochloromethane        | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 124-48-1      |      |
| 1,2-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 95-50-1       |      |
| 1,3-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 541-73-1      |      |
| 1,4-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 106-46-7      |      |
| 1,1-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 75-34-3       |      |
| 1,2-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 107-06-2      |      |
| 1,1-Dichloroethene          | 7.9     | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 75-35-4       |      |
| cis-1,2-Dichloroethene      | 3330    | ug/L                        | 200                       | 40 |                          | 12/16/08 21:05 | 156-59-2      |      |
| trans-1,2-Dichloroethene    | 25.1    | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 156-60-5      |      |
| 1,2-Dichloropropane         | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 78-87-5       |      |
| cis-1,3-Dichloropropene     | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 10061-01-5    |      |
| trans-1,3-Dichloropropene   | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 10061-02-6    |      |
| Ethylbenzene                | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 100-41-4      |      |
| 2-Hexanone                  | ND      | ug/L                        | 10.0                      | 1  |                          | 12/16/08 20:39 | 591-78-6      |      |
| Methylene Chloride          | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 75-09-2       |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/L                        | 10.0                      | 1  |                          | 12/16/08 20:39 | 108-10-1      |      |
| Styrene                     | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 100-42-5      |      |
| 1,1,1,2-Tetrachloroethane   | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 79-34-5       |      |
| Tetrachloroethene           | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 127-18-4      |      |
| Toluene                     | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 108-88-3      |      |
| 1,1,1-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 71-55-6       |      |
| 1,1,2-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 79-00-5       |      |
| Trichloroethene             | 52.6    | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 79-01-6       |      |
| Trichlorofluoromethane      | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 75-69-4       |      |
| Vinyl chloride              | 385     | ug/L                        | 1.0                       | 1  |                          | 12/16/08 20:39 | 75-01-4       |      |
| m&p-Xylene                  | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 1330-20-7     |      |
| o-Xylene                    | ND      | ug/L                        | 5.0                       | 1  |                          | 12/16/08 20:39 | 95-47-6       |      |
| 4-Bromofluorobenzene (S)    | 100     | %                           | 70-130                    | 1  |                          | 12/16/08 20:39 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)   | 105     | %                           | 70-130                    | 1  |                          | 12/16/08 20:39 | 17060-07-0    |      |
| Toluene-d8 (S)              | 99      | %                           | 70-130                    | 1  |                          | 12/16/08 20:39 | 2037-26-5     |      |

## ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 302283

| Sample: Post Carb           |         | Lab ID: 302283003           | Collected: 12/11/08 10:55 | Received: 12/12/08 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                        |               | 12/16/08 21:30 | 67-64-1    |      |
| Benzene                     | ND      | ug/L                        | 1.0                       | 1                        |               | 12/16/08 21:30 | 71-43-2    |      |
| Bromodichloromethane        | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 75-27-4    |      |
| Bromoform                   | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 75-25-2    |      |
| Bromomethane                | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND      | ug/L                        | 10.0                      | 1                        |               | 12/16/08 21:30 | 78-93-3    |      |
| Carbon disulfide            | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 75-15-0    |      |
| Carbon tetrachloride        | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 56-23-5    |      |
| Chlorobenzene               | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 108-90-7   |      |
| Chloroethane                | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 75-00-3    |      |
| Chloroform                  | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 67-66-3    |      |
| Chloromethane               | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 74-87-3    |      |
| Dibromochloromethane        | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 124-48-1   |      |
| 1,2-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 106-46-7   |      |
| 1,1-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | 26.7    | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 78-87-5    |      |
| cis-1,3-Dichloropropene     | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 10061-02-6 |      |
| Ethylbenzene                | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 100-41-4   |      |
| 2-Hexanone                  | ND      | ug/L                        | 10.0                      | 1                        |               | 12/16/08 21:30 | 591-78-6   |      |
| Methylene Chloride          | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND      | ug/L                        | 10.0                      | 1                        |               | 12/16/08 21:30 | 108-10-1   |      |
| Styrene                     | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 100-42-5   |      |
| 1,1,2,2-Tetrachloroethane   | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 79-34-5    |      |
| Tetrachloroethene           | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 127-18-4   |      |
| Toluene                     | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 108-88-3   |      |
| 1,1,1-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 79-00-5    |      |
| Trichloroethene             | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 79-01-6    |      |
| Trichlorofluoromethane      | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 75-69-4    |      |
| Vinyl chloride              | 318     | ug/L                        | 1.0                       | 1                        |               | 12/16/08 21:30 | 75-01-4    |      |
| m&p-Xylene                  | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 1330-20-7  |      |
| o-Xylene                    | ND      | ug/L                        | 5.0                       | 1                        |               | 12/16/08 21:30 | 95-47-6    |      |
| 4-Bromofluorobenzene (S)    | 97      | %                           | 70-130                    | 1                        |               | 12/16/08 21:30 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 102     | %                           | 70-130                    | 1                        |               | 12/16/08 21:30 | 17060-07-0 |      |
| Toluene-d8 (S)              | 95      | %                           | 70-130                    | 1                        |               | 12/16/08 21:30 | 2037-26-5  |      |

## ANALYTICAL RESULTS

Project: Essex/Hope Jamestown  
Pace Project No.: 302283

| Sample: TB-01               |         | Lab ID: 302283004           | Collected: 12/11/08 00:00 | Received: 12/12/08 10:00 | Matrix: Water |                |            |      |
|-----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                  | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>             |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Acetone                     | ND ug/L |                             | 10.0                      | 1                        |               | 12/16/08 22:21 | 67-64-1    |      |
| Benzene                     | ND ug/L |                             | 1.0                       | 1                        |               | 12/16/08 22:21 | 71-43-2    |      |
| Bromodichloromethane        | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 75-27-4    |      |
| Bromoform                   | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 75-25-2    |      |
| Bromomethane                | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 74-83-9    |      |
| 2-Butanone (MEK)            | ND ug/L |                             | 10.0                      | 1                        |               | 12/16/08 22:21 | 78-93-3    |      |
| Carbon disulfide            | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 75-15-0    |      |
| Carbon tetrachloride        | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 56-23-5    |      |
| Chlorobenzene               | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 108-90-7   |      |
| Chloroethane                | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 75-00-3    |      |
| Chloroform                  | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 67-66-3    |      |
| Chloromethane               | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 74-87-3    |      |
| Dibromochloromethane        | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 124-48-1   |      |
| 1,2-Dichlorobenzene         | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 106-46-7   |      |
| 1,1-Dichloroethane          | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 75-34-3    |      |
| 1,2-Dichloroethane          | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 107-06-2   |      |
| 1,1-Dichloroethene          | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 156-60-5   |      |
| 1,2-Dichloropropane         | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 78-87-5    |      |
| cis-1,3-Dichloropropene     | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 10061-02-6 |      |
| Ethylbenzene                | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 100-41-4   |      |
| 2-Hexanone                  | ND ug/L |                             | 10.0                      | 1                        |               | 12/16/08 22:21 | 591-78-6   |      |
| Methylene Chloride          | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | ND ug/L |                             | 10.0                      | 1                        |               | 12/16/08 22:21 | 108-10-1   |      |
| Styrene                     | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 100-42-5   |      |
| 1,1,2,2-Tetrachloroethane   | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 79-34-5    |      |
| Tetrachloroethene           | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 127-18-4   |      |
| Toluene                     | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 108-88-3   |      |
| 1,1,1-Trichloroethane       | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 71-55-6    |      |
| 1,1,2-Trichloroethane       | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 79-00-5    |      |
| Trichloroethene             | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 79-01-6    |      |
| Trichlorofluoromethane      | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 75-69-4    |      |
| Vinyl chloride              | ND ug/L |                             | 1.0                       | 1                        |               | 12/16/08 22:21 | 75-01-4    |      |
| m&p-Xylene                  | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 1330-20-7  |      |
| o-Xylene                    | ND ug/L |                             | 5.0                       | 1                        |               | 12/16/08 22:21 | 95-47-6    |      |
| 4-Bromofluorobenzene (S)    | 95 %    |                             | 70-130                    | 1                        |               | 12/16/08 22:21 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)   | 104 %   |                             | 70-130                    | 1                        |               | 12/16/08 22:21 | 17060-07-0 |      |
| Toluene-d8 (S)              | 95 %    |                             | 70-130                    | 1                        |               | 12/16/08 22:21 | 2037-26-5  |      |

## QUALITY CONTROL DATA

Project: Essex/Hope Jamestown

Pace Project No.: 302283

QC Batch: MSV/1238 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 302283001, 302283002, 302283003, 302283004

METHOD BLANK: 10691 Matrix: Water

Associated Lab Samples: 302283001, 302283002, 302283003, 302283004

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane       | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| 1,1,2-Trichloroethane       | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| 1,1-Dichloroethane          | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| 1,1-Dichloroethene          | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| 1,2-Dichlorobenzene         | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| 1,2-Dichloroethane          | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| 1,2-Dichloropropane         | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| 1,3-Dichlorobenzene         | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| 1,4-Dichlorobenzene         | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| 2-Butanone (MEK)            | ug/L  | ND           | 10.0            | 12/16/08 14:19 |            |
| 2-Hexanone                  | ug/L  | ND           | 10.0            | 12/16/08 14:19 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND           | 10.0            | 12/16/08 14:19 |            |
| Acetone                     | ug/L  | ND           | 10.0            | 12/16/08 14:19 |            |
| Benzene                     | ug/L  | ND           | 1.0             | 12/16/08 14:19 |            |
| Bromodichloromethane        | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Bromoform                   | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Bromomethane                | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Carbon disulfide            | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Carbon tetrachloride        | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Chlorobenzene               | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Chloroethane                | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Chloroform                  | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Chloromethane               | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| cis-1,2-Dichloroethene      | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| cis-1,3-Dichloropropene     | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Dibromochloromethane        | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Ethylbenzene                | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| m&p-Xylene                  | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Methylene Chloride          | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| o-Xylene                    | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Styrene                     | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Tetrachloroethene           | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Toluene                     | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| trans-1,2-Dichloroethene    | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| trans-1,3-Dichloropropene   | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Trichloroethene             | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Trichlorofluoromethane      | ug/L  | ND           | 5.0             | 12/16/08 14:19 |            |
| Vinyl chloride              | ug/L  | ND           | 1.0             | 12/16/08 14:19 |            |
| 1,2-Dichloroethane-d4 (S)   | %     | 99           | 70-130          | 12/16/08 14:19 |            |
| 4-Bromofluorobenzene (S)    | %     | 96           | 70-130          | 12/16/08 14:19 |            |
| Toluene-d8 (S)              | %     | 94           | 70-130          | 12/16/08 14:19 |            |

Date: 12/24/2008 11:17 AM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Essex/Hope Jamestown  
Pace Project No.: 302283

| LABORATORY CONTROL SAMPLE & LCSD: 10692 |       |             | 10693      |             |           |            |              |     |         |            |
|-----------------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Parameter                               | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
| 1,1,1-Trichloroethane                   | ug/L  | 20          | 19.6       | 19.5        | 98        | 97         | 70-130       | .4  | 30      |            |
| 1,1,2,2-Tetrachloroethane               | ug/L  | 20          | 16.8       | 16.6        | 84        | 83         | 70-130       | 1   | 30      |            |
| 1,1,2-Trichloroethane                   | ug/L  | 20          | 18.3       | 18.6        | 92        | 93         | 70-130       | 1   | 30      |            |
| 1,1-Dichloroethane                      | ug/L  | 20          | 18.3       | 17.9        | 92        | 90         | 70-130       | 2   | 30      |            |
| 1,1-Dichloroethene                      | ug/L  | 20          | 15.7       | 15.5        | 79        | 77         | 70-130       | 2   | 30      |            |
| 1,2-Dichlorobenzene                     | ug/L  | 20          | 18.5       | 18.3        | 92        | 92         | 70-130       | .7  | 30      |            |
| 1,2-Dichloroethane                      | ug/L  | 20          | 18.6       | 18.9        | 93        | 94         | 70-130       | 1   | 30      |            |
| 1,2-Dichloropropane                     | ug/L  | 20          | 17.0       | 17.0        | 85        | 85         | 70-130       | .1  | 30      |            |
| 1,3-Dichlorobenzene                     | ug/L  | 20          | 18.2       | 17.9        | 91        | 90         | 70-130       | 2   | 30      |            |
| 1,4-Dichlorobenzene                     | ug/L  | 20          | 18.2       | 18.0        | 91        | 90         | 70-130       | 1   | 30      |            |
| 2-Butanone (MEK)                        | ug/L  | 20          | 19.9       | 19.2        | 99        | 96         | 70-130       | 4   | 30      |            |
| 2-Hexanone                              | ug/L  | 20          | 17.8       | 17.9        | 89        | 89         | 70-130       | .6  | 30      |            |
| 4-Methyl-2-pentanone (MIBK)             | ug/L  | 20          | 18.8       | 19.2        | 94        | 96         | 70-130       | 2   | 30      |            |
| Acetone                                 | ug/L  | 20          | 22.5       | 20.6        | 113       | 103        | 70-130       | 9   | 30      |            |
| Benzene                                 | ug/L  | 20          | 17.1       | 17.0        | 86        | 85         | 70-130       | .8  | 30      |            |
| Bromodichloromethane                    | ug/L  | 20          | 16.8       | 16.4        | 84        | 82         | 70-130       | 2   | 30      |            |
| Bromoform                               | ug/L  | 20          | 16.0       | 16.0        | 80        | 80         | 70-130       | .01 | 30      |            |
| Bromomethane                            | ug/L  | 20          | 11.6       | 14.4        | 58        | 72         | 70-130       | 21  | 30      | L0         |
| Carbon disulfide                        | ug/L  | 20          | 15.7       | 15.0        | 78        | 75         | 70-130       | 4   | 30      |            |
| Carbon tetrachloride                    | ug/L  | 20          | 17.9       | 18.0        | 89        | 90         | 70-130       | .6  | 30      |            |
| Chlorobenzene                           | ug/L  | 20          | 18.1       | 17.9        | 91        | 90         | 70-130       | 1   | 30      |            |
| Chloroethane                            | ug/L  | 20          | 14.7       | 14.7        | 73        | 73         | 70-130       | .1  | 30      |            |
| Chloroform                              | ug/L  | 20          | 19.2       | 19.1        | 96        | 95         | 70-130       | .9  | 30      |            |
| Chloromethane                           | ug/L  | 20          | 19.9       | 18.9        | 100       | 95         | 70-130       | 5   | 30      |            |
| cis-1,2-Dichloroethene                  | ug/L  | 20          | 19.2       | 18.9        | 96        | 94         | 70-130       | 2   | 30      |            |
| cis-1,3-Dichloropropene                 | ug/L  | 20          | 16.5       | 16.4        | 83        | 82         | 70-130       | .7  | 30      |            |
| Dibromochloromethane                    | ug/L  | 20          | 16.6       | 16.4        | 83        | 82         | 70-130       | 1   | 30      |            |
| Ethylbenzene                            | ug/L  | 20          | 18.0       | 17.9        | 90        | 90         | 70-130       | .3  | 30      |            |
| m&p-Xylene                              | ug/L  | 40          | 37.7       | 37.7        | 94        | 94         | 70-130       | .1  | 30      |            |
| Methylene Chloride                      | ug/L  | 20          | 18.4       | 18.7        | 92        | 93         | 70-130       | 2   | 30      |            |
| o-Xylene                                | ug/L  | 20          | 18.3       | 18.2        | 92        | 91         | 70-130       | 1   | 30      |            |
| Styrene                                 | ug/L  | 20          | 18.4       | 18.3        | 92        | 91         | 70-130       | .5  | 30      |            |
| Tetrachloroethene                       | ug/L  | 20          | 18.3       | 18.5        | 92        | 93         | 70-130       | 1   | 30      |            |
| Toluene                                 | ug/L  | 20          | 17.8       | 17.8        | 89        | 89         | 70-130       | .3  | 30      |            |
| trans-1,2-Dichloroethene                | ug/L  | 20          | 17.5       | 17.4        | 87        | 87         | 70-130       | .5  | 30      |            |
| trans-1,3-Dichloropropene               | ug/L  | 20          | 17.3       | 17.4        | 86        | 87         | 70-130       | .9  | 30      |            |
| Trichloroethene                         | ug/L  | 20          | 17.2       | 17.1        | 86        | 85         | 70-130       | .8  | 30      |            |
| Trichlorofluoromethane                  | ug/L  | 20          | 17.7       | 17.6        | 88        | 88         | 70-130       | .3  | 30      |            |
| Vinyl chloride                          | ug/L  | 20          | 20.2       | 19.6        | 101       | 98         | 70-130       | 3   | 30      |            |
| 1,2-Dichloroethane-d4 (S)               | %     |             |            |             | 100       | 100        | 70-130       |     |         |            |
| 4-Bromofluorobenzene (S)                | %     |             |            |             | 97        | 98         | 70-130       |     |         |            |
| Toluene-d8 (S)                          | %     |             |            |             | 96        | 96         | 70-130       |     |         |            |

## QUALIFIERS

Project: Essex/Hope Jamestown  
Pace Project No.: 302283

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### 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.

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

### LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

### ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex/Hope Jamestown  
Pace Project No.: 302283

| Lab ID    | Sample ID   | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-----------|-------------|-----------------|----------|-------------------|------------------|
| 302283001 | Pre-Carb    | EPA 8260        | MSV/1238 |                   |                  |
| 302283002 | Primary-Eff | EPA 8260        | MSV/1238 |                   |                  |
| 302283003 | Post Carb   | EPA 8260        | MSV/1238 |                   |                  |
| 302283004 | TB-01       | EPA 8260        | MSV/1238 |                   |                  |