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907015

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
January - June 2002
BPU Permit No. 26
URS Project No. 801419**

Dear Mr. Peterson:

This submittal represents the January through June 2002 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.

This Semi-Annual Report contains system influent and effluent data for January through June 2002. During the reporting period, there were two occasions where discharge water exceeded the permit limits for total VOCs concentrations at 2,130 ug/L. Discharge above the permit limits occurred during the month of March 2002 where total VOCs were 2,140 ug/L, and during the months of June and July 2002 where total VOCs analysis indicated 2,803 ug/L. Both of these

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Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205
Tel: 412.788.2717
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events were documented in discharge non-compliance notifications to the Jamestown BPU dated April 8, 2002 and July 25, 2002. In both cases, acetone was identified as the primary compound discharged. Since acetone has not been identified as a principal contaminant in the groundwater at the site, URS is investigating potential sources for this compound in the site waste stream, as well as the possibility for laboratory instrument related contamination. No other discharge non-compliance events occurred for the reporting period.

Discharge flow rates for the reporting period ranged from 82,163 to 147,383 gallons per month. The daily average flow rates shown on the attached table 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) 788-2717 Extension 1269.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Dodrill", written in a cursive style.

Keith A. Dodrill
Project Manager

Attachment

cc: Ben Baker
Maurice Moore (NYSDEC)
John Ross

Table 1
Discharge Monitoring Data
Essex/Hope Site
January – July 2002

Reporting Requirements for Pre-treated Discharge	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002	July 22, 2002	Discharge Limit
VOCs (ppb)	Non-Detect (< 5 ug/L)	1,508.2 ug/L Vinyl Chloride and Acetone	2,140 ug/L Vinyl Chloride and Acetone	14.4 ug/L Acetone and Vinyl Chloride	2.4 ug/L Vinyl Chloride	2,800 ug/L Acetone and Vinyl Chloride	Not Sampled (See Note)	2,130 ug/L Total Toxic Organics
pH (Standard Units)	8.10	7.20	6.03	6.32	7.63	7.61	NA	>6 and <9
Monthly Total Flow (gallons)	100,497	82,163	87,021	103,786	147,383	138,993	82,310	NA
Average Daily Flow (gallons)	3,242	2,934	2,807	3,460	4,754	4,633	2,655	NA
Maximum Daily Flow (gallons)	3,890	3,521	3,369	4,151	5,705	5,560	3,186	NA

Notes:

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

July data represents the period between July 1 and 22, 2002. A fresh carbon unit was placed online in the secondary position on July 22, 2002.

JANUARY LABORATORY RESULTS



Antech Ltd.

One Triangle Lane
Export, PA 15632
Phone: (724)733-1161
Fax: (724)327-7793

February 12, 2002

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Antech Ltd. by URS Corporation. The samples were received on January 29, 2002. Please reference Antech project number 02-0417 when inquiring about this report.

Client Site: Essex, Jamestown, NY
Client Ref.: 801419.2030

Antech Sample Identification	Client Sample Identification
0201-1610	Pre-Carb
0201-1611	Post Carb Comp
0201-1612	Primary Effluent
0201-1613	Trip Blank

General Comments: Cooler temperature 5.8 degrees C upon receipt. Ice was present.

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

Sincerely,

Carin A. Ferris
Project Coordinator

CAM: vlt

Enclosures

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

Lab Project ID: 02-0417
Lab Sample ID: 0201-1610
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 01/27/2002
Date Received: 01/29/2002

Client Site: Essex, Jamestown, NY
Client Ref : 801419 2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Benzene	8260B ⁽¹⁾	7.2	1.0	ug/l	JEC	02/04/2002	020504-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Cumene	8260B ⁽¹⁾	6.5	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	18	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	5700	250	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	34	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	400	25	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Toluene	8260B ⁽¹⁾	170	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichloroethene	8260B ⁽¹⁾	320	25	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	720	5.0	ug/l	JEC	02/04/2002	020504-01	<2.0

(Continued)

Lab Sample ID: 0201-1610

Client Sample ID: Pre-Carb

Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	2800	250	ug/l	JEC	02/04/2002	020504-01	<5.0
o-Xylene	8260B ⁽¹⁾	940	250	ug/l	JEC	02/04/2002	020504-01	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 02-0417
Lab Sample ID: 0201-1611
Client Sample ID: Post Carb Comp
Sample Matrix: Aqueous

Date Sampled: 01/27/2002
Date Received: 01/29/2002

Client Site: Essex, Jamestown, NY
Client Ref.: 801419.2030

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Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/04/2002	020504-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	02/04/2002	020504-01	<2.0

(Continued)

Lab Sample ID: 0201-1611
Client Sample ID: Post Carb Comp

Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 02-0417
Lab Sample ID: 0201-1612
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 01/27/2002
Date Received: 01/29/2002

Client Site: Essex, Jamestown, NY
Client Ref : 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/04/2002	020504-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	9.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	700	5.0	ug/l	JEC	02/04/2002	020504-01	<2.0

(Continued)

Lab Sample ID: 0201-1612
Client Sample ID: Primary Effluent

Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0

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

Sample Comments: Results reported on an as received basis.

007

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

Lab Project ID: 02-0417
Lab Sample ID: 0201-1613
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 01/27/2002
Date Received: 01/29/2002

Client Site: Essex, Jamestown, NY
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/04/2002	020504-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	02/04/2002	020504-01	<2.0

(Continued)

Lab Sample ID: 0201-1613
Client Sample ID: Trip Blank

Volatiles (Cont.)

m,p-Xylene	8260B(1)	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
o-Xylene	8260B(1)	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0

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

Sample Comments: Results reported on an as received basis.

Chain of Custody Record

 Page 1 of 1

PROJECT 801419.2030			NO. OF CONTAINERS VDA 8260	ANALYSES										REMARKS	SAM ID NO. (for lab use only)			
SITE Essex-Hope																		
COLLECTED BY (Signature) John S. Ross																		
FIELD SAMPLE ID.	SAMPLE MATRIX	DATE/TIME																
Pre-Carb	AQ	1-27-02 0815	3															
Post-Carb	{	1-27-02 0830	3													1610		
Post-Carb		1-27-02 0900	3													1611		
Post-Carb		1-27-02 0930	3															
Post-Carb		1-27-02 1000	3															
Primary Effluent		1-27-02 1015	3													1612		
Trip Blank	↓		3													1613		
Temp Blank			1															
REMARKS Combine 4 Post-Carb Samples into 1 for Analysis															RELINQUISHED BY: John S. Ross		DATE 1-28-02	TIME 1700
RECEIVED BY: Fed Ex	DATE 1-28-02	TIME 1530	RELINQUISHED BY:	DATE	TIME	RECEIVED BY: Fed Ex	DATE	TIME	RELINQUISHED BY: Fed Ex	DATE	TIME							

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
John	1-28-02	1530							
REMARKS 827883004364 5.5°C									

FEBRUARY LABORATORY RESULTS



Antech Ltd.

One Triangle Lane
Export, PA 15632
Phone: (724)733-1161
Fax: (724)327-7793

March 18, 2002

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Antech Ltd. by URS Corporation. The samples were received on March 4, 2002. Please reference Antech project number 02-0895 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Antech Sample Identification	Client Sample Identification
0203-0216	Pre Carb
0203-0217	Primary Effluent
0203-0218	Post Carb Composite
0203-0219	Trip Blank

General Comments: Cooler temperature 4.1 ° C upon receipt. Ice was present.

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

Sincerely,

Valerie Timko
for Carin A. Ferris
Project Coordinator

CAM: vlt

Enclosures

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

Lab Project ID: 02-0895
Lab Sample ID: 0203-0216
Client Sample ID: Pre Carb
Sample Matrix: Aqueous

Date Sampled: 02/28/2002
Date Received: 03/04/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

0001

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	62	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Benzene	8260B ⁽¹⁾	6.5	1.0	ug/l	REC	03/12/2002	031304-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Cumene	8260B ⁽¹⁾	9.6	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	11	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	4700	250	ug/l	REC	03/13/2002	031404-04	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	41	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	460	25	ug/l	REC	03/13/2002	031404-04	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Toluene	8260B ⁽¹⁾	250	25	ug/l	REC	03/13/2002	031404-04	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Trichloroethene	8260B ⁽¹⁾	240	25	ug/l	REC	03/13/2002	031404-04	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	640	5.0	ug/l	REC	03/13/2002	031404-04	<2.0

(Continued)

Lab Sample ID: 0203-0216

Client Sample ID: Pre Carb

Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	2300	250	ug/l	REC	03/13/2002	031404-04	<5.0
o-Xylene	8260B ⁽¹⁾	910	25	ug/l	REC	03/13/2002	031404-04	<5.0

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

0001

Sample Comments: Results reported on an as received basis.

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

Lab Project ID: 02-0895
Lab Sample ID: 0203-0217
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 02/28/2002
Date Received: 03/04/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	3700	50	ug/l	REC	03/13/2002	031404-04	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	REC	03/13/2002	031404-04	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
2-Butanone	8260B ⁽¹⁾	13	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	27	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Vinyl chloride	8260B ⁽¹⁾	1300	50	ug/l	REC	03/13/2002	031404-04	<2.0

(Continued)

Lab Sample ID: 0203-0217
Client Sample ID: Primary Effluent

Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0

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

0000

Sample Comments: Results reported on an as received basis.

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

Lab Project ID: 02-0895
Lab Sample ID: 0203-0218
Client Sample ID: Post Carb Composite
Sample Matrix: Aqueous

Date Sampled: 02/28/2002
Date Received: 03/04/2002

6881

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	1500	10	ug/l	REC	03/13/2002	031404-04	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	REC	03/12/2002	031304-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	8.2	2.0	ug/l	REC	03/12/2002	031304-01	<2.0

(Continued)

Lab Sample ID: 0203-0218
Client Sample ID: Post Carb Composite

Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0

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

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Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 02-0895
Lab Sample ID: 0203-0219
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 02/28/2002
Date Received: 03/04/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	REC	03/12/2002	031304-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	REC	03/12/2002	031304-01	<2.0

(Continued)

Lab Sample ID: 0203-0219

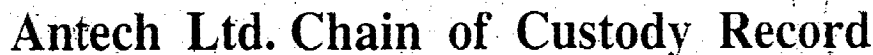
Client Sample ID: Trip Blank

Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0

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

Sample Comments: Results reported on an as received basis.



Ship To: Antech Ltd.
One Triangle Lane
Export, PA 15632
(724) 733-1161
FAX (724) 327-7793

Page 1 of 1
Only 620895

Project Name: Essey- Hope

Project No.: 821419.2030

Sampler: John Koss

Relinquished By: (Signature and Printed Name)

Date 3-1-02 Time 1645

Received By: (Signature and Printed Name)

Relinquished By: (Signature and Printed Name)

Date _____ Time _____

Received By: (Signature and Printed Name)

Date 3-4-02 Time 0900

The signing of this chain of custody by Antech indicates only that samples for this project were received at our laboratory. The Antech project manager assigned to your account will verify the sample identification (s), analytical program (s), and any anomaly (ies) with the sample shipment. Notification will be sent to you in the form of a client receipt.

Antech Quote ID No.: _____

Antech Contact Name: Debbi Grimaldi

Client Purchase Order No.: _____

Method of Shipment: Fed. Express

Shipment ID: 8213-6026-4695-0215

Sample ID Number	Sample Description			Grab	Compos	Chemistry	Nutrient (C)	Total Metals	Dissolved	Cyanide (C)	Phenols	TDS (1.2)	TDS (1.3)	Sulfide (1.4)	Radiology	Oil & Gre	TPHC (10)	VOC (10)	Organics	Bacteriology	Wetland	VOC Steps	Specify in Special Instructions/Comments	
	Date	Time	Description																				No. of Containers	For Lab Use Only Laboratory ID
2-28-02	1600	Pre-Carb	X															3					2	0216
2-28-02	1610	Primary Effluent																1					3	0217
2-28-02	1615	Post-Carb																1					1	0218
2-28-02	1645	Post-Carb																1					3	
2-28-02	1715	Post-Carb																1					3	
2-28-02	1745	Post Carb																1					2	+
		Trip Blank																1					3	0219
		Temp Blank																1					1	

Special Instructions/Comments: Combine 4 test-tube samples into one for analysis

Sample Return/Disposal

 Disposal by Antech

Results To

Client Name: Keith Modell

Company: URS Corp

Address. Suite 250 Twin Towers 4955 Stearnsville Rd
Pittsburgh 15205

Phone No: 412-788-2717

Fax No:

Invoice To: Client Name

Сотради:

Address:

For Laboratory Use Only

[illegible]

MARCH LABORATORY RESULTS



Antech Ltd.

One Triangle Lane
Export, PA 15632
Phone: (724)733-1161
Fax: (724)327-7793

April 3, 2002

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Antech Ltd. by URS Corporation. The samples were received on March 29, 2002. Please reference Antech project number 02-1352 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Antech Sample Identification	Client Sample Identification
0203-1831	Post Carb

General Comments: Cooler temperature 7.5 ° C upon receipt. Ice was present.

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

Sincerely,

for Valerie Timko
Carin A. Ferris
Project Coordinator

CAM: vlt

Enclosures

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

Lab Project ID: 02-1352
Lab Sample ID: 0203-1831
Client Sample ID: Post Carb
Sample Matrix: Aqueous

Date Sampled: 03/28/2002
Date Received: 03/29/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	1900	10	ug/l	REC	04/02/2002	040304-04	16
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	REC	04/02/2002	040304-10	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Vinyl chloride	8260B ⁽¹⁾	240	10	ug/l	REC	04/02/2002	040304-10	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0

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

Sample Comments: Results reported on an as received basis. VOA: Acetone is a common laboratory contaminant. Results for this analyte should be considered estimates unless the amount found in the sample is 3 to 5

times higher than that found in the method blank. According to method 8260 and the laboratory SOP, acetone is allowed to be up to 5 times above the CRQL (or reporting limit) in the method blank. Typical lab reporting limit for acetone is 10, therefore, the method blank may contain up to 50ppb and still be deemed acceptable.

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Antech Ltd.

One Triangle Lane
Export, PA 15632
Phone: (724)733-1161
Fax: (724)327-7793

April 12, 2002

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Antech Ltd. by URS Corporation. The samples were received on March 29, 2002. Please reference Antech project number 02-1353 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Antech Sample Identification	Client Sample Identification
0203-1832	Pre Carb
0203-1833	Primary Effluent
0203-1834	Trip Blank

General Comments: VOA: Acetone is a common laboratory contaminant. Results for this analyte should be considered estimates unless the amount found in the sample is 3 to 5 times higher than that found in the method blank. Cooler temperature 7.5 ° C upon receipt. Ice was present.

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

Sincerely,

for Carin A. Ferris
Project Coordinator

CAM: vlt

Enclosures

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

Lab Project ID: 02-1353
Lab Sample ID: 0203-1832
Client Sample ID: Pre Carb
Sample Matrix: Aqueous

Date Sampled: 03/28/2002
Date Received: 03/29/2002

Client Site: Essex-Hope
Client Ref : 801419.2030

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Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	14	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Benzene	8260B ⁽¹⁾	3.8	1.0	ug/l	JLP	04/09/2002	041204-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Cumene	8260B ⁽¹⁾	7.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	9.2	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3500	250	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	9.3	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	510	50	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Toluene	8260B ⁽¹⁾	240	50	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichloroethene	8260B ⁽¹⁾	230	50	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	520	10	ug/l	JLP	04/09/2002	041204-01	<2.0

(Continued)

Lab Sample ID: 0203-1832
Client Sample ID: Pre Carb

Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	3100	50	ug/l	JLP	04/09/2002	041204-01	<5.0
o-Xylene	8260B ⁽¹⁾	1100	50	ug/l	JLP	04/09/2002	041204-01	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 02-1353
Lab Sample ID: 0203-1833
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 03/28/2002
Date Received: 03/29/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

000

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	270	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JLP	04/09/2002	041204-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Butanone	8260B ⁽¹⁾	29	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	110	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	1100	50	ug/l	JLP	04/09/2002	041204-01	<2.0

(Continued)

Lab Sample ID: 0203-1833
Client Sample ID: Primary Effluent

Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	7.9	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 02-1353
Lab Sample ID: 0203-1834
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 03/28/2002
Date Received: 03/29/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JLP	04/09/2002	041204-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JLP	04/09/2002	041204-01	<2.0

(Continued)

Lab Sample ID: 0203-1834

Client Sample ID: Trip Blank

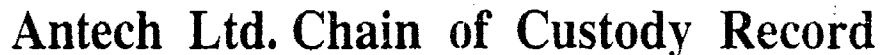
Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0

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

Sample Comments: Results reported on an as received basis.

07/02

Page 1 of 1

02-1353

Laboratory Project No.:

(Signature)

Date	Time
------	------

Date _____ Time _____

The signing of this chain of custody by Antech indicates only that samples for this project were received at our laboratory. The Antech project manager assigned to your account will verify the sample identification (s), analytical program (s), and any anomaly (ies) with the sample shipment. Notification will be sent to you in the form of a client receipt.

Please Check when Monitoring Samples are Collected.

☐ Residual Chlorine Present

☐ Residual Chlorine Not Present

Please Check when VOA Vials are Collected.

☐ Free of Bubbles

☐ Bubbles Present

(Specify in Special Instructions/Comments)

No. of Containers	For Lab Use Only Laboratory ID
-------------------	-----------------------------------

03-1832
03-1833

02-1834

Address: _____

MAC Antech-Admin Antech ~~Admin of Custody~~ B-1, 1001 n

APRIL LABORATORY RESULTS



Pace Analytical Services, Inc.
One Triangle Lane
Export, PA 15632

Phone: (724) 733-1161
Fax: (724) 327-7793

May 10, 2002

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on April 26, 2002. Please reference Pace project number 02-1788 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0204-1699	Pre-Carb
0204-1700	Primary Effluent
0204-1701	Post-Carb
0204-1702	Trip Blank

General Comments: Cooler temperature 10.2 ° C upon receipt. Ice was present.

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

Sincerely,

Penelope J. Morris

Penelope J. Morris
Project Manager

PJG: jld

Enclosures

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

Lab Project ID: 02-1788
Lab Sample ID: 0204-1699
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 04/25/2002
Date Received: 04/26/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Benzene	8260B ⁽¹⁾	3.6	1.0	ug/l	CEL	05/07/2002	050804-04	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Cumene	8260B ⁽¹⁾	5.9	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	10	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3000	250	ug/l	CEL	05/07/2002	050804-04	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	7.2	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Ethylbenzene	8260B ⁽¹⁾	380	250	ug/l	CEL	05/07/2002	050804-04	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Toluene	8260B ⁽¹⁾	190	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Trichloroethene	8260B ⁽¹⁾	<250	250	ug/l	CEL	05/07/2002	050804-04	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Vinyl chloride	8260B ⁽¹⁾	520	50	ug/l	CEL	05/07/2002	050804-04	<2.0

(Continued)

Lab Sample ID: 0204-1699

Client Sample ID: Pre-Carb

Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	2400	250	ug/l	CEL	05/07/2002	050804-04	<5.0
o-Xylene	8260B ⁽¹⁾	870	250	ug/l	CEL	05/07/2002	050804-04	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

Lab Project ID: 02-1788
Lab Sample ID: 0204-1700
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 04/25/2002
Date Received: 04/26/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	EAA	05/08/2002	050904-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	7.3	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	14	2.0	ug/l	EAA	05/08/2002	050904-01	<2.0

(Continued)

Lab Sample ID: 0204-1700
Client Sample ID: Primary Effluent

Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAA	05/08/2002	050904-01	<5.0

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

Sample Comments: Results reported on an as received basis.

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4955 Steubenville Pike
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Lab Project ID: 02-1788
Lab Sample ID: 0204-1701
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 04/25/2002
Date Received: 04/26/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	11	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CEL	05/07/2002	050804-04	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Vinyl chloride	8260B ⁽¹⁾	3.4	2.0	ug/l	CEL	05/07/2002	050804-04	<2.0

(Continued)

Lab Sample ID: 0204-1701

Client Sample ID: Post-Carb

Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0

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

Sample Comments: Results reported on an as received basis.

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Twin Towers, Suite 250
4955 Steubenville Pike
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Client Site: Essex-Hope
Client Ref.: 801419.2030

Lab Project ID: 02-1788
Lab Sample ID: 0204-1702
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 04/25/2002
Date Received: 04/26/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CEL	05/07/2002	050804-04	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	CEL	05/07/2002	050804-04	<2.0

(Continued)

Lab Sample ID: 0204-1702
Client Sample ID: Trip Blank

Volatiles (Cont.)

m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CEL	05/07/2002	050804-04	<5.0

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

Sample Comments: Results reported on an as received basis.

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Chain of Custody Record

 Page 1 of 1

PROJECT 801419.2030			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE Essex Hope				5260 VOCs											
COLLECTED BY (Signature) John S. Kerr															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
Pre-Carb	AG	4-25-02 1530	2											041655	
Primary EFF/vent		4-25-02 1530	2											1700	
Post-Carb		4-25-02 1530	2											1701	
Post-Carb		4-25-02 1600	2												
Post-Carb		4-25-02 1630	2												
Post-Carb		4-25-02 1700	2												
Trip Blank			3											1702	
Temp Blank			1												
REMARKS Combine 4 post-Carb samples into one for analysis															
RECEIVED BY: Fed. Ex												DATE	TIME		
RELINQUISHED BY: John S. Kerr												DATE	TIME		

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
	4-26-02	0900	827883304776				16.2		
REMARKS									

MAY LABORATORY RESULTS

0001

June 14, 2002

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on May 31, 2002. Please reference Pace project number 02-2266 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0205-1741	Pre Carb
0205-1742	Post Carb
0205-1743	Primary Effluent
0205-1744	Trip Blank

General Comments: Cooler temperature 6.4 ° C upon receipt. Ice was present. Please composite Post Carb samples prior to analysis.

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

Sincerely,



Penelope J. Morris
Project Manager

PJG: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Lab Project ID: 02-2266
Lab Sample ID: 0205-1741
Client Sample ID: Pre Carb
Sample Matrix: Aqueous

Date Sampled: 05/30/2002
Date Received: 05/31/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	1600	50	ug/l	JEC	06/10/2002	061104-05	<5.0
Benzene	8260B ⁽¹⁾	5.5	1.0	ug/l	JEC	06/10/2002	061104-05	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
2-Butanone	8260B ⁽¹⁾	45	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Cumene	8260B ⁽¹⁾	6.1	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3600	250	ug/l	JEC	06/10/2002	061104-05	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Ethylbenzene	8260B ⁽¹⁾	380	250	ug/l	JEC	06/10/2002	061104-05	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0205-1741
Client Sample ID: Pre Carb

Volatiles (Cont.)

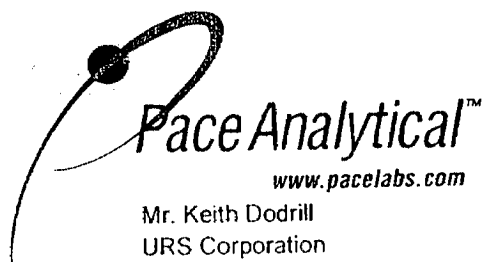
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Toluene	8260B ⁽¹⁾	200	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Trichloroethene	8260B ⁽¹⁾	260	250	ug/l	JEC	06/10/2002	061104-05	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Vinyl chloride	8260B ⁽¹⁾	540	50	ug/l	JEC	06/10/2002	061104-05	<2.0
m,p-Xylene	8260B ⁽¹⁾	2400	250	ug/l	JEC	06/10/2002	061104-05	<5.0
o-Xylene	8260B ⁽¹⁾	790	250	ug/l	JEC	06/10/2002	061104-05	<5.0

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

Sample Comments: Results reported on an as received basis.

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Client Ref.: 801419.2030

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Lab Project ID: 02-2266
Lab Sample ID: 0205-1742
Client Sample ID: Post Carb
Sample Matrix: Aqueous

Date Sampled: 05/30/2002
Date Received: 05/31/2002

0004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	06/11/2002	061204-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0

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REPORT OF LABORATORY ANALYSIS

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6/14/2002



page 4 of 9

Lab Sample ID: 0205-1742
Client Sample ID: Post Carb

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	2.4	2.0	ug/l	JEC	06/11/2002	061204-01	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/11/2002	061204-01	<5.0

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

Sample Comments: Results reported on an as received basis.

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Client Site: Essex-Hope
Client Ref.: 801419.2030

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Phone: 724.733.1161
Fax: 724.327.7793

Lab Project ID: 02-2266
Lab Sample ID: 0205-1743
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 05/30/2002
Date Received: 05/31/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	1200	10	ug/l	JEC	06/11/2002	061104-01	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	06/10/2002	061104-05	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	19	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0

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REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0205-1743
Client Sample ID: Primary Effluent

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Vinyl chloride	8260B ⁽¹⁾	78	2.0	ug/l	JEC	06/10/2002	061104-05	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0

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

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 02-2266
Lab Sample ID: 0205-1744
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 05/30/2002
Date Received: 05/31/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	06/10/2002	061104-05	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Chain of Custody Record

 Page 1 of 1

PROJECT 801419.2030			NO. OF CONTAINERS	ANALYSES										Suspended Solids Sample fees to Project # 804041.85			
SITE Essex - Hope				8216.0109 Suspended Solids													
COLLECTED BY (Signature) John S. Ross																	
FIELD SAMPLE I.D.																	
SAMPLE MATRIX			DATE/TIME			REMARKS										SAM ID NO. (for lab use only)	
Pre-Carb	LIT	5-30-02 1630	2													05-1741	
Post-Carb		5-30-02 1630	2													1742	
Primary Effluent		5-30-02 1630	2													1743	
Post-Carb		5-30-02 1700	2													1742	
Post-Carb		5-30-02 1730	2														
Post-Carb		5-30-02 1800	2														
Trip-Blank			3													1744	
Temp-Blank			1														
Post-Carb		5-30-02 1730	1														
REMARKS Combine 4 Post-Carb samples into one for analysis													RELINQUISHED BY: J. Ross		DATE 5/30/02	TIME 1815	
RECEIVED BY: Fed Express		DATE	TIME	RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME	RELINQUISHED BY:		DATE	TIME		

LAB USE ONLY

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:		DATE	TIME	TEMP °C	SEAL #	CONDITION
K. S. Ross		5/30/02	1730								
REMARKS Trip blank wh's have air bubbles.											

JUNE LABORATROY RESULTS



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

July 16, 2002

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on July 1, 2002. Please reference Pace project number 02-2725 when inquiring about this report.

Client Site: Essex, Jamestown, NY
Client Ref.: 804041.81

Pace Sample Identification	Client Sample Identification
0207-0002	Pre-Carb
0207-0003	Primary Effluent
0207-0004	Post Carb Comp
0207-0008	Trip Blank

General Comments: Cooler temperature ambient upon receipt. No ice was present.

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

Sincerely,

Penelope J. Morris
Project Manager

PJG: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 02-2725
Lab Sample ID: 0207-0002
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 06/28/2002
Date Received: 07/01/2002

Client Site: Essex, Jamestown, NY
Client Ref.: 804041.81

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/12/2002	071504-04	<10
Benzene	8260B ⁽¹⁾	4.3	1.0	ug/l	JEC	07/12/2002	071504-04	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/12/2002	071504-04	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Cumene	8260B ⁽¹⁾	6.8	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	6.8	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3200	250	ug/l	JEC	07/11/2002	071204-04	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	7.3	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Ethylbenzene	8260B ⁽¹⁾	610	25	ug/l	JEC	07/11/2002	071204-04	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/12/2002	071504-04	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/12/2002	071504-04	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0207-0002
Client Sample ID: Pre-Carb

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Toluene	8260B ⁽¹⁾	270	25	ug/l	JEC	07/11/2002	071204-04	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Trichloroethene	8260B ⁽¹⁾	100	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Vinyl chloride	8260B ⁽¹⁾	510	10	ug/l	JEC	07/11/2002	071204-04	<2.0
m,p-Xylene	8260B ⁽¹⁾	3700	250	ug/l	JEC	07/11/2002	071204-04	<5.0
o-Xylene	8260B ⁽¹⁾	1200	250	ug/l	JEC	07/11/2002	071204-04	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 02-2725
Lab Sample ID: 0207-0003
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 06/28/2002
Date Received: 07/01/2002

Client Site: Essex, Jamestown, NY
Client Ref.: 804041.81

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	2300	500	ug/l	JEC	07/12/2002	071504-04	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	07/12/2002	071504-04	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
2-Butanone	8260B ⁽¹⁾	37	10	ug/l	JEC	07/12/2002	071504-04	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	370	25	ug/l	JEC	07/11/2002	071204-04	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Ethylbenzene	8260B ⁽¹⁾	6.3	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/12/2002	071504-04	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/12/2002	071504-04	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0207-0003
Client Sample ID: Primary Effluent

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
Vinyl chloride	8260B ⁽¹⁾	670	10	ug/l	JEC	07/11/2002	071204-04	<2.0
m,p-Xylene	8260B ⁽¹⁾	38	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0
o-Xylene	8260B ⁽¹⁾	14	5.0	ug/l	JEC	07/12/2002	071504-04	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1995, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 02-2725
Lab Sample ID: 0207-0004
Client Sample ID: Post Carb Comp
Sample Matrix: Aqueous

Date Sampled: 06/28/2002
Date Received: 07/01/2002

Client Site: Essex, Jamestown, NY
Client Ref.: 804041.81

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	2800	500	ug/l	JEC	07/11/2002	071504-04	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	07/11/2002	071204-04	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/11/2002	071204-04	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/11/2002	071204-04	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/11/2002	071204-04	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0207-0004
Client Sample ID: Post Carb Comp

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Vinyl chloride	8260B ⁽¹⁾	3.4	2.0	ug/l	JEC	07/11/2002	071204-04	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 02-2725
Lab Sample ID: 0207-0008
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 06/28/2002
Date Received: 07/01/2002

Client Site: Essex, Jamestown, NY
Client Ref.: 804041.81

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/11/2002	071204-04	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	07/11/2002	071204-04	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/11/2002	071204-04	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/11/2002	071204-04	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/11/2002	071204-04	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0

(Continued)

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Lab Sample ID: 0207-0008
Client Sample ID: Trip Blank

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	07/11/2002	071204-04	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0

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

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