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August 1, 2003

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 2003
BPU Permit No. 26
URS Project No. 801419**

Dear Mr. Peterson:

This submittal represents the January through June 2003 monitoring report in accordance with the City of Jamestown Board of Public Utilities Industrial Wastewater Discharge Permit Number 26 for the Essex Specialty Products, Inc facility referenced above. For reporting purposes, Essex Specialty Products, Inc., is classified as a Significant Industrial User subject to Categorical Pretreatment Standards. As such, this report has been developed in accordance with the requirements of 40 CFR 403.12(e).

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

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

URS Corporation
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205
Tel: 412.788.2717
Fax: 412.788.1316



This Semi-Annual Report contains system influent and effluent data for January through June 2003. There were no discharge noncompliance events that occurred during this reporting period.

The treatment plant was shut down on two occasions during the reporting period. The plant was inoperable between March 18, 2003 and April 13, 2003 for maintenance and repairs to the wastewater handling system, and between June 25, 2003 through July 12, 2003 for repairs to the onsite sewer line. No pre-treated water was discharged to the POTW during these periods, other than for sampling purposes. The pumping system was operated temporarily at the end of each month to collect samples representative of the discharge water processed during each month.

Discharge flow rates for the reporting period ranged from 101,390 to 198,590 gallons per month. The daily average flow rates shown on Table 1 were estimated based upon the total volume of water discharged per month. Daily maximum flow rates were estimated to be 20 percent greater than daily averages. The supporting Laboratory Certificates of Analysis for the reported concentrations of VOCs are also attached.

We trust that this submittal satisfies our reporting obligation pursuant to 40 CFR 403.12. If you have any questions or require additional information, please contact me at (412) 249-1266.

Sincerely,

A handwritten signature in black ink that reads "Mark Dowiak". The signature is written in a cursive, flowing style.

Mark Dowiak
Project Manager

Attachment

cc: Ben Baker
Maurice Moore (NYSDEC)
Keith Dodrill (URS)
John Ross (URS)

Table 1

**Discharge Monitoring Data
Essex/Hope Site
January - June 2003**

Reporting Requirements for Pre-Treated Discharge	January 2003	February 2003	March 2003	April 2003	May 2003	June 2003
VOCs (ug/L)	6.9 µg/L cis-1,2-DCE	6.7 µg/L cis-1,2-DCE	18.8 µg/L cis-1,2-DCE and Vinyl Chloride	83.5 µg/L cis-1,2-DCE and Vinyl Chloride	366 µg/L cis-1,2-DCE and Vinyl Chloride	17 µg/L cis-1,2-DCE
pH (Standard Units)	6.68	7.04	6.47	7.16	7.11	7.32
	7.32	7.30	6.77	7.19	6.39	7.58
	7.27	7.25	6.85	7.07	6.94	7.51
	7.24	7.26	6.89	7.07	6.97	7.53
Monthly Total Flow (gallons)	198,590	147,302	101,390	113,890	189,370	126,900
Average Daily Flow (gallons)	6,406	5,261	3,271	3,796	6,109	4,230
Maximum Daily Flow (gallons)	7,687	6,313	3,925	4,556	7,330	5,076

Note:

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

VOCs discharge sample is a laboratory prepared composite of 4 grab samples collected at 30 minute intervals.

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

JANUARY LABORATORY RESULTS

February 13, 2003

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on February 3, 2003. Please reference Pace project number 03-0412 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0302-0394	Pre-Carb
0302-0395	Primary Effluent
0302-0396	Post-Carb
0302-0397	Trip Blank

General Comments: Cooler temperature 4.0 ° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 03-0412
Lab Sample ID: 0302-0394
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 01/30/2003
Date Received: 02/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Benzene	8260B ⁽¹⁾	7.3	1.0	ug/l	JEC	02/05/2003	0018886-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	4300	50	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	30	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0302-0394
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichloroethene	8260B ⁽¹⁾	390	50	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	640	100	ug/l	JEC	02/05/2003	0018886-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 03-0412
Lab Sample ID: 0302-0395
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 01/30/2003

Date Received: 02/03/2003

Client Site: Essex-Hope

Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/05/2003	0018886-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1500	50	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0302-0395
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	620	100	ug/l	JEC	02/05/2003	0018886-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 03-0412
Lab Sample ID: 0302-0396
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 01/30/2003
Date Received: 02/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/05/2003	0018886-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.9	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0302-0396
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	02/05/2003	0018886-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 03-0412
Lab Sample ID: 0302-0397
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 01/30/2003
Date Received: 02/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/05/2003	0018886-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0302-0397
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	02/05/2003	0018886-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

692280

Required Client Information: **Section B**
Report To: Keith Dodrill

Page: of

To Be Completed by Pace Analytical and Client **Section C**

Required Client Information: **Section A**

Company <u>URS Corp.</u>	Copy To:
Address <u>Twin Towers Suite 250</u>	Invoice To:
<u>4955 Steubenville Pike</u>	P.O.:
<u>Pittsburgh, PA 15205</u>	Project Name <u>Essex-Hope</u>
Phone <u>412-758-2717</u>	Project Number <u>801419.2030</u>

Client Information (Check quote/contract):

Requested Due Date:

TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days

Project Manager

RES

Project #:

03-0412

Profile #:

Requested Analysis:

ITEM #	Section D										Required Client Information:										Valid Matrix Codes										MATRIX CODE	DATE COLLECTED	TIME COLLECTED	# Containers	Preservatives								Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	SAMPLE ID One character per box (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE										MATRIX CODE WATER WT SOIL SL OIL CL WIPE WP AIR AR TISSUE TS OTHER OT										Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Fed-Ex	837738697045	1-31-03	1		John S. Ross	1-31-03	1600	Fed-Ex	1-31-03	1600

SAMPLE CONDITION	SAMPLE NOTES
Temp in °C <u>4.0</u>	Combine 4 Post-carb Samples into 1 for Analysis
Received on Ice <u>Y/N</u>	
Sealed Cooler <u>Y/N</u>	
Samples Intact <u>Y/N</u>	

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER

John S. Ross

SIGNATURE of SAMPLER

John S. Ross

DATE Signed: (MM / DD / YY)

1-30-03 1700

FEBRUARY LABORATORY RESULTS

March 17, 2003

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on March 3, 2003. Please reference Pace project number 03-0767 when inquiring about this report.

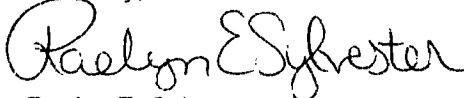
Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0303-0131	Pre-Carb
0303-0132	Primary Effluent
0303-0133	Secondary Effluent
0303-0134	Post-Carb
0303-0135	Trip Blank

General Comments: Cooler temperature 4 ° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

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: 03-0767
Lab Sample ID: 0303-0131
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 02/27/2003
Date Received: 03/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Benzene	8260B ⁽¹⁾	5.3	1.0	ug/l	MAK	03/11/2003	0019625-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3500	50	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0303-0131
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichloroethene	8260B ⁽¹⁾	410	50	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	530	100	ug/l	MAK	03/11/2003	0019625-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 03-0767
Lab Sample ID: 0303-0132
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 02/27/2003
Date Received: 03/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/11/2003	0019625-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	5.3	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2000	50	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	5.5	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0303-0132
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichloroethene	8260B ⁽¹⁾	34	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	660	100	ug/l	MAK	03/11/2003	0019625-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 03-0767
Lab Sample ID: 0303-0133
Client Sample ID: Secondary Effluent
Sample Matrix: Aqueous

Date Sampled: 02/27/2003
Date Received: 03/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/11/2003	0019625-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

(Continued)

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Lab Sample ID: 0303-0133
Client Sample ID: Secondary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	690	20	ug/l	MAK	03/12/2003	0019654-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 03-0767
Lab Sample ID: 0303-0134
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 02/27/2003
Date Received: 03/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/11/2003	0019625-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.7	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

(Continued)

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Lab Sample ID: 0303-0134
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	03/11/2003	0019625-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-0767
Lab Sample ID: 0303-0135
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 02/27/2003
Date Received: 03/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/11/2003	0019625-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

(Continued)

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Lab Sample ID: 0303-0135
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	03/11/2003	0019625-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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691214

Required Client Information: Section A

Company: URS

Address: 4955 Steubenville Pike
Twin Towers Suite 250
Pittsburgh, PA 15205

Phone: 412-788-2717 Fax: _____

Required Client Information: Section B

Report To: Keith Dodrill

Copy To: _____

Invoice To: _____

P.O. _____

Project Name: Essex-Hope

Project Number: 801419.2030

Page: _____ of _____

To Be Completed by Pace Analytical and Client Section C

Client Information (Check quote/contract):

Requested/Due Date: _____ TAT: _____

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days.

Quote Reference: _____

Project Manager: _____

Project #: 03-0727

Profile #: _____

Requested Analysis: _____

ITEM #	Section D										Required Client Information:										Valid Matrix Codes MATRIX WATER SOIL OIL WIPE AIR TISSUE OTHER	CODE WT SL OL WP AR TS OT	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives							Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE																										Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Fed-Express	837738697001	2-28-03	1		John S. Rose URS	2-28-03	1600	Fed-Ex		
SAMPLE CONDITION	SAMPLE NOTES									
Temp in °C	Combine 4 post-Carbs									
Received on Ice	Samples into 1 for analysis									
Sealed Cooler										
Samples Intact										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Ross

SIGNATURE of SAMPLER: John S. Rose

DATE Signed: (MM / DD / YY) 2-27-03 1830

MARCH LABORATORY RESULTS

April 15, 2003

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on April 1, 2003. Please reference Pace project number 03-1188 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0304-0456	Pre-Carb
0304-0457	Primary Effluent
0304-0458	Secondary Effluent
0304-0459	Post-Carb
0304-0460	Trip Blank

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

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

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: 03-1188
Lab Sample ID: 0304-0456
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 03/30/2003
Date Received: 04/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Benzene	8260B ⁽¹⁾	4.7	1.0	ug/l	MAK	04/12/2003	0020460-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	9.6	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2300	50	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	10	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0304-0456

Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichloroethene	8260B ⁽¹⁾	270	50	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	540	100	ug/l	MAK	04/12/2003	0020460-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 03-1188
Lab Sample ID: 0304-0457
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 03/30/2003
Date Received: 04/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/12/2003	0020460-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	6.1	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2700	50	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	5.1	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0304-0457
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichloroethene	8260B ⁽¹⁾	28	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	900	100	ug/l	MAK	04/12/2003	0020460-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 03-1188
Lab Sample ID: 0304-0458
Client Sample ID: Secondary Effluent
Sample Matrix: Aqueous

Date Sampled: 03/30/2003
Date Received: 04/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatife Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/13/2003	0020458-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/13/2003	0020458-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/13/2003	0020458-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/13/2003	0020458-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/13/2003	0020458-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0304-0458

Client Sample ID: Secondary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	910	20	ug/l	MAK	04/12/2003	0020460-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 03-1188
Lab Sample ID: 0304-0459
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 03/30/2003
Date Received: 04/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/12/2003	0020460-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	7.8	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0304-0459
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	11	2.0	ug/l	MAK	04/12/2003	0020460-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 03-1188
Lab Sample ID: 0304-0460
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 03/30/2003
Date Received: 04/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatiles								
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/12/2003	0020460-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

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REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0304-0460

Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	04/12/2003	0020460-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

691174

Required Client Information: Section A		Required Client Information: Section B		Page: of 		To Be Completed by Pace Analytical and Client Section C	
Company: URS		Report To: Keith Dodrill		Client Information (Check quote/contract):		Quote Reference:	
Address: 4955 Steubenville Pike		Copy To:		Requested Date Date:		Project Manager:	
Twin Towers Suite 250		Invoice To:		*TAT:		Project #:	
Pittsburgh, PA 15205		PO:		* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.		Profile #:	
Phone: 412-788-2717		Project Name: Essex-Hope		Turn Around Time (TAT) in calendar days.		Requested Analysis:	
Fax:		Project Number: 801419.2030					

ITEM #	Section D										Required Client Information:										Valid Matrix Codes MATRIX WATER SOIL OIL WIPE AIR TISSUE OTHER	CODE WT SL OL WP AR TS OT	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives							Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	SAMPLE ID										One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE							Unpreserved	H ₂ SO ₄	HNO ₃							HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
FEDERAL Express	837666727645	3-31-03	1		John S. Ross URS	3-31-03	1600	FED EXPRESS	4-1-03	1:00
SAMPLE CONDITION										
Temp in °C	3	SAMPLE NOTES								
Received on Ice	Y/N	Combine 4 Post-Carb								
Sealed Cooler	Y/N	Samples into 1 for Analysis.								
Samples Intact	Y/N									
Additional Comments:										
ZT86										
SAMPLER NAME AND SIGNATURE										
PRINT Name of SAMPLER:										
John Ross										
SIGNATURE of SAMPLER:										
John S. Ross										
DATE Signed: (MM / DD / YY)										

APRIL LABORATORY RESULTS

May 12, 2003

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 2, 2003. Please reference Pace project number 03-1661 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0305-0502	Pre-Carb
0305-0503	Primary Effluent
0305-0504	Secondary Effluent
0305-0505	Post-Carb
0305-0509	Trip Blank

General Comments: Cooler temperature 11 ° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 03-1661
Lab Sample ID: 0305-0502
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 04/30/2003
Date Received: 05/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
Benzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromoform	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromomethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Butanone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroform	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Cumene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3400	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
Methylene chloride	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0305-0502
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Toluene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichloroethene	8260B ⁽¹⁾	560	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	500	100	ug/l	CMS	05/05/2003	0021020-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<100	100	ug/l	CMS	05/05/2003	0021020-1	<5.0
o-Xylene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0

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

Sample Comments: Results reported on an as received basis. Detection limits have been elevated due to sample matrix.

REPORT OF LABORATORY ANALYSIS

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Pittsburgh, PA 15205

Lab Project ID: 03-1661
Lab Sample ID: 0305-0503
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 04/30/2003
Date Received: 05/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
Benzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromoform	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromomethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Butanone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroform	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Cumene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3100	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
Methylene chloride	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0

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Lab Sample ID: 0305-0503
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Toluene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	530	100	ug/l	CMS	05/05/2003	0021020-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<100	100	ug/l	CMS	05/05/2003	0021020-1	<5.0
o-Xylene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0

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

Sample Comments: Results reported on an as received basis. Detection limits have been elevated due to sample matrix.

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Lab Project ID: 03-1661
Lab Sample ID: 0305-0504
Client Sample ID: Secondary Effluent
Sample Matrix: Aqueous

Date Sampled: 04/30/2003
Date Received: 05/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<100	100	ug/l	CMS	05/05/2003	0021020-1	<10
Benzene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromoform	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromomethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Butanone	8260B ⁽¹⁾	<100	100	ug/l	CMS	05/05/2003	0021020-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroform	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloromethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Cumene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<100	100	ug/l	CMS	05/05/2003	0021020-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<100	100	ug/l	CMS	05/05/2003	0021020-1	<10
Methylene chloride	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0

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Lab Sample ID: 0305-0504
Client Sample ID: Secondary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Toluene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	740	20	ug/l	CMS	05/05/2003	0021020-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<20	20	ug/l	CMS	05/05/2003	0021020-1	<5.0
o-Xylene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0

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

Sample Comments: Results reported on an as received basis. Detection limits have been elevated due to sample matrix.

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Lab Project ID: 03-1661
Lab Sample ID: 0305-0505
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 04/30/2003
Date Received: 05/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CMS	05/05/2003	0021020-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.5	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0

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REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0305-0505

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	77	2.0	ug/l	CMS	05/05/2003	0021020-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0

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

Sample Comments: Results reported on an as received basis. Sample 0305-0505 was composited from 4 samples prior to analysis.

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Lab Project ID: 03-1661
Lab Sample ID: 0305-0509
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 04/30/2003
Date Received: 05/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CMS	05/05/2003	0021020-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0305-0509

Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	CMS	05/05/2003	0021020-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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730996

Required Client Information: Section A

Company: URS

Address: 4955 Steubenville Pike
Twin Towers Suite 250
Pittsburgh PA 15205

Phone: 412-788-2717 Fax: _____

Required Client Information: Section B

Report To: Keith Dodrill

Copy To: _____

Invoice To: _____

P.O. _____

Project Name: Essex-Hope

Project Number: 801419.2030

Page: _____ of _____

To Be Completed by Pace Analytical and Client Section C

Quote Reference: _____

Project Manager: _____

Project #: 03 1661

Profile #: _____

Requested Analysis: _____

ITEM #	Section D Required Client Information:										Valid Matrix Codes		MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives							Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE										CODE						Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Federal Express	837666724667	5-1-03	1		John S. Ross URS	5-1-03	1830	Fed Express	5-2-03	1046

SAMPLE CONDITION	SAMPLE NOTES
Temp in °C	11
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Combine 4 Post-Carb Samples into 1 for Analysis

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John S. Ross

SIGNATURE of SAMPLER: John S. Ross

DATE Signed: (MM / DD / YY) 4-30-03

Additional Comments:

MAY LABORATORY RESULTS

June 6, 2003

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on June 3, 2003. Please reference Pace project number 03-2124 when inquiring about this report.

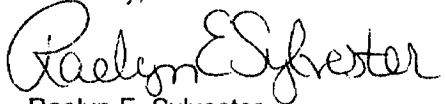
Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0306-0453	Pre-Carb
0306-0454	Primary Effluent
0306-0455	Secondary Effluent
0306-0456	Post-Carb
0306-0457	Trip Blank

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

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

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

Lab Project ID: 03-2124
Lab Sample ID: 0306-0453
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 05/31/2003
Date Received: 06/03/2003

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Benzene	8260B ⁽¹⁾	5.5	1.0	ug/l	CMS	06/04/2003	0021741-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2900	50	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0306-0453

Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichloroethene	8260B ⁽¹⁾	470	50	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	410	100	ug/l	CMS	06/04/2003	0021741-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

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

Lab Project ID: 03-2124
Lab Sample ID: 0306-0454
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 05/31/2003
Date Received: 06/03/2003

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021745-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CMS	06/04/2003	0021745-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021745-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	7.4	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3200	50	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021745-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021745-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0306-0454
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Trichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	430	100	ug/l	CMS	06/04/2003	0021741-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

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

Lab Project ID: 03-2124
Lab Sample ID: 0306-0455
Client Sample ID: Secondary Effluent
Sample Matrix: Aqueous

Date Sampled: 05/31/2003
Date Received: 06/03/2003

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CMS	06/04/2003	0021741-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	18	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0306-0455
Client Sample ID: Secondary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	590	20	ug/l	CMS	06/04/2003	0021741-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

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

Lab Project ID: 03-2124
Lab Sample ID: 0306-0456
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 05/31/2003
Date Received: 06/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CMS	06/04/2003	0021741-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	5.7	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0306-0456
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	360	2.0	ug/l	CMS	06/04/2003	0021741-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

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

Sample Comments: Results reported on an as received basis. Sample 0306-0456 was composited from 4 samples prior to analysis.

REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

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

Lab Project ID: 03-2124
Lab Sample ID: 0306-0457
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 05/31/2003
Date Received: 06/03/2003

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	58	10	ug/l	CMS	06/04/2003	0021741-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CMS	06/04/2003	0021741-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Methylene chloride	8260B ⁽¹⁾	14	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0306-0457
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	CMS	06/04/2003	0021741-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

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

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

REPORT OF LABORATORY ANALYSIS

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730642

Required Client Information: Section A

Company: **URS Corp**
 Address: **4955 Steubenville Pike**
Twin Towers Suite 250
Pittsburgh, PA 15205
 Phone: **412-788-2717** Fax: **412-788-1316**

Required Client Information: Section B

Report To: **Keith Dodrill**
 Copy To: _____
 Invoice To: _____
 P.O.: _____
 Project Name: **Essex-Hope**
 Project Number: **801419.2030**

Page: 1 of 1

Client Information (Check quote/contract):

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

To Be Completed by Pace Analytical and Client Section C

Quote Reference: _____
 Project Manager: _____
 Project #: **03-2124**
 Profile #: _____
 Requested Analysis: _____

ITEM #	Section D										Required Client Information:										Valid Matrix Codes MATRIX WATER SOIL OIL WIPE AIR TISSUE OTHER	CODE WT SL OL WP AR TS OT	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives								Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE										Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
FED-Express	837738696978	6-2-03	1		John S. Ross - URS	1530	6-2-03	FED Express	6-3-03	11:30
SAMPLE CONDITION	SAMPLE NOTES									
Temp in °C	2									
Received on Ice	Y/N									
Sealed Cooler	Y/N									
Samples Intact	Y/N									

Combine 4 Post-Carb
 Samples into (1) one for
 Analysis.

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

John S. Ross

SIGNATURE of SAMPLER:

John S. Ross

DATE Signed: (MM / DD / YY)

5-31-03

JUNE LABORATORY RESULTS

July 15, 2003

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, 2003. Please reference Pace project number 03-2566 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0307-0465	Pre-Carb
0307-0466	Primary Effluent
0307-0467	Post-Carb
0307-0468	Field Blank

General Comments: Cooler temperature 5 ° C upon receipt. Ice was present. Sample 0307-0467 was composited from 4 samples prior to analysis.

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 03-2566
Lab Sample ID: 0307-0465
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 06/29/2003
Date Received: 07/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Benzene	8260B ⁽¹⁾	6.1	1.0	ug/l	MAK	07/09/2003	0022516-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	9.7	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3300	50	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0307-0465
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichloroethene	8260B ⁽¹⁾	380	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	560	100	ug/l	MAK	07/09/2003	0022516-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-2566
Lab Sample ID: 0307-0466
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 06/29/2003
Date Received: 07/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/09/2003	0022516-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	180	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0307-0466
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	910	100	ug/l	MAK	07/09/2003	0022516-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-2566
Lab Sample ID: 0307-0467
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 06/29/2003
Date Received: 07/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/09/2003	0022516-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	9.1	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

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Lab Sample ID: 0307-0467

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	650	10	ug/l	CMS	07/10/2003	0022555-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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Client Site: Essex-Hope
Client Ref.: 801419.2030

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

Lab Project ID: 03-2566
Lab Sample ID: 0307-0468
Client Sample ID: Field Blank
Sample Matrix: Aqueous

Date Sampled: 06/29/2003
Date Received: 07/01/2003

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/09/2003	0022516-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	17	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

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Lab Sample ID: 0307-0468

Client Sample ID: Field Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	07/09/2003	0022516-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

766249

Required Client Information: Section A

Company: **URS Corp.**

Address: **4955 Steubenville Pike**
Twin Towers Suite 250
Pittsburgh, PA 15205

Phone: **412-788-2717** Fax: _____

Required Client Information: Section B

Report To: **Keith Dodrill**

Copy To: _____

Invoice To: _____

PO: _____

Project Name: **Essex Hope**

Project Number: **861419.2030**

Page: 1 of 1

To Be Completed by Pace Analytical and Client

Section C

Quote Reference: _____

Project Manager: _____

Project #: **03-2566**

Profile #: _____

Requested Analysis: _____

ITEM #	Section D										Required Client Information:										Valid Matrix Codes		MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives							Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE										MATRIX	CODE	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
FED-EX	837738696987	6-30-03	1		John S. Ross - URS	6-30-03	1600	FED-EX		
SAMPLE CONDITION		SAMPLE NOTES								
Temp in °C	5	Combine 4 Post-Carb Samples into 1 for Analysis								
Received on Ice	Y/N									
Sealed Cooler	Y/N									
Samples Intact	Y/N									

Additional Comments:

0100

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER

John S. Ross

SIGNATURE of SAMPLER:

John S. Ross

DATE Signed: (MM / DD / YY)

6-29-03