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BCP - C



907015
M. Moore
W
RECEIVED

July 31, 2006

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

AUG 03 2006
NYSDEC REG 9
✓ REL FOIL UNREL

**Subject: Essex/Hope Site
Semi-Annual Self Monitoring Report
January through June 2006
BPU Permit No. 26
URS Project No. 41567715**

Dear Mr. Peterson:

This submittal represents the January through June 2006 monitoring report in accordance with the City of Jamestown Board of Public Utilities Industrial Wastewater Discharge Permit Number 26 for the Essex Specialty Products, Inc facility referenced above. For reporting purposes, Essex Specialty Products, Inc., is classified as a Significant Industrial User subject to Categorical Pretreatment Standards. As such, this report has been developed in accordance with the requirements of 40 CFR 403.12(e).

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

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

URS Corporation
Foster Plaza 4, Suite 300
501 Holiday Drive
Pittsburgh, PA 15205
Tel: 412-503-4700
Fax: 412-503-4701
www.urscorp.com

This Semi-Annual Report contains system influent and effluent data for January through June 2006. There were no discharge noncompliance events that occurred during this reporting period.

Table 1 summarizes the monthly discharge rates, and the total VOCs and constituents detected in the discharge to the POTW for each month. Discharge flow rates for the reporting period ranged from 23,206 to 114,024 gallons per month over the reporting period. The daily average flow rates shown on Table 1 were estimated based upon the total volume of water discharged per month. Daily maximum flow rates were estimated to be 20 percent greater than daily averages. The supporting Laboratory Certificates of Analysis for the reported concentrations of VOCs are also attached.

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

Sincerely,
URS



Mark Dowiak, P.E.
Project Manager

Attachment

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

Table 1

**January - June 2006
Post Carbon (Effluent) Monitoring Data
Essex/Hope Site
Jamestown, NY**

Reporting Requirements for Pre-Treated Discharge (System Effluent to POTW)	Industrial Wastewater Discharge Permit #26 Limits	January	February	March	April	May	June
POTW Discharge Analytical Data							
Total VOCs (µg/L)	2,130 µg/L (TTO)	34	19	17	21	16	19
Detected Compounds	Report	cis-1,2-DCE vinyl chloride	cis-1,2-DCE vinyl chloride	cis-1,2-DCE vinyl chloride	cis-1,2-DCE vinyl chloride	cis-1,2-DCE vinyl chloride	cis-1,2-DCE vinyl chloride
pH (Standard Units)	5.5 to 10	7.83	7.86	7.46	NM	NM	7.00
		7.82	8.00	7.72	NM	NM	7.50
		7.84	7.97	7.75	NM	NM	7.50
		7.83	7.81	7.76	NM	NM	7.50
POTW Discharge Flow Data							
Monthly Total Flow (gallons)	Report	114,024	101,103	58,116	44,700	31,528	23,206
Average Daily Flow (gallons)	Report	3,678	3,611	1,875	1,490	1,017	774
Maximum Daily Flow (gallons)	Report	4,414	4,333	2,250	1,788	1,220	928

Notes:

Jamestown BPU Industrial Wastewater Discharge Permit #26 effective 11/5/02 through 11/4/07

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

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

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

NM = Not Measured

TTO = Total Toxic Organics

ATTACHMENTS

February 14, 2006

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on February 10, 2006. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 06-0857 when inquiring about this report.

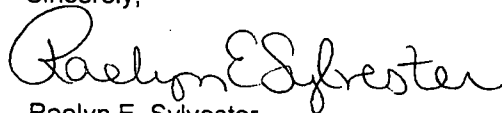
Client Site: Essex-Hope
Client Ref.: 41567503

Pace Sample Identification	Client Sample Identification
0602-1300	Pre-Carb
0602-1301	Primary Effluent
0602-1302	Post-Carb
0602-1303	TB-01

General Comments: Cooler temperature 6 ° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 06-0857
Lab Sample ID: 0602-1300
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

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

Client Site: Essex-Hope
Client Ref.: 41567503

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	EAC	02/13/2006	0046923-1	<10
Benzene	8260B ⁽¹⁾	5.2	1.0	ug/l	EAC	02/13/2006	0046923-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	EAC	02/13/2006	0046923-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	9.1	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2600	50	ug/l	EAC	02/13/2006	0046923-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	9.6	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	EAC	02/13/2006	0046923-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	EAC	02/13/2006	0046923-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0602-1300
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Trichloroethene	8260B ⁽¹⁾	660	50	ug/l	EAC	02/13/2006	0046923-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	320	2.0	ug/l	EAC	02/13/2006	0046923-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope
Client Ref.: 41567503

Lab Project ID: 06-0857
Lab Sample ID: 0602-1301
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

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

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	EAC	02/13/2006	0046923-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	EAC	02/13/2006	0046923-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	EAC	02/13/2006	0046923-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	16	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	EAC	02/13/2006	0046923-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	EAC	02/13/2006	0046923-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0602-1301
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	9.3	2.0	ug/l	EAC	02/13/2006	0046923-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 06-0857
Lab Sample ID: 0602-1302
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

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

Client Site: Essex-Hope
Client Ref.: 41567503

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	EAC	02/13/2006	0046923-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	EAC	02/13/2006	0046923-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	EAC	02/13/2006	0046923-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	16	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	EAC	02/13/2006	0046923-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	EAC	02/13/2006	0046923-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0602-1302
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	18	2.0	ug/l	EAC	02/13/2006	0046923-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<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 0602-1302 was composited from 4 samples prior to analysis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 06-0857
Lab Sample ID: 0602-1303
Client Sample ID: TB-01
Sample Matrix: Aqueous

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

Client Site: Essex-Hope

Client Ref.: 41567503

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	EAC	02/13/2006	0046923-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	EAC	02/13/2006	0046923-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	EAC	02/13/2006	0046923-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	EAC	02/13/2006	0046923-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	EAC	02/13/2006	0046923-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0

(Continued)

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Lab Sample ID: 0602-1303
Client Sample ID: TB-01

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	EAC	02/13/2006	0046923-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	02/13/2006	0046923-1	<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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ALLQ020rev.3,31Mar05

February 28, 2006

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on February 22, 2006. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 06-1061 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567474

Pace Sample Identification	Client Sample Identification
0602-2313	Pre-Carb
0602-2314	Primary-Eff
0602-2315	Post-Carb
0602-2316	Trip Blank

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

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 06-1061
Lab Sample ID: 0602-2313
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 02/21/2006
Date Received: 02/22/2006

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	02/27/2006	0047313-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	94	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0602-2313**
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Trichloroethene	8260B ⁽¹⁾	370	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	2.6	2.0	ug/l	MAK	02/27/2006	0047313-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope
Client Ref.: 41567474

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

Lab Project ID: 06-1061
Lab Sample ID: 0602-2314
Client Sample ID: Primary-Eff
Sample Matrix: Aqueous

Date Sampled: 02/21/2006
Date Received: 02/22/2006

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	02/27/2006	0047313-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0602-2314
Client Sample ID: Primary-Eff

Volatiles (Cont.)

Styrene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Trichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Vinyl chloride	8260B(1)	7.1	2.0	ug/l	MAK	02/27/2006	0047313-1	<2.0
m,p-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
o-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 06-1061
Lab Sample ID: 0602-2315
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 02/21/2006
Date Received: 02/22/2006

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	02/27/2006	0047313-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	10	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0602-2315
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	8.6	2.0	ug/l	MAK	02/27/2006	0047313-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<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 0602-2315 was composited from 4 samples prior to analysis.

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

Lab Project ID: 06-1061
Lab Sample ID: 0602-2316
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 02/21/2006
Date Received: 02/22/2006

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	02/27/2006	0047313-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2006	0047313-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0

(Continued)

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Lab Sample ID: 0602-2316
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/27/2006	0047313-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2006	0047313-1	<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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Page: 1 of 1

918625

Section B

Section C

Required Project Information:

Invoice Information:

REGULATORY AGENCY	
☐ NPDES	☐ GROUND WATER ☐ DRINKING WATER
☐ UST	☐ RCRA ☐ Other _____
SITE LOCATION	☐ GA ☐ IL ☐ IN ☐ MI ☐ MN ☐ NC
	☐ OH ☐ SC ☐ WI ☐ OTHER _____

[illegible]

Additional Comments: COMPOSITE/
COMBINE (4) POST-CARB
SAMPLES INTO (1)
SAMPLE FOR ANALYSIS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION				
Valerie Sibeto / URS	2-21-06	1600	FEDEX AIR BILL # 8555 9039 6093	2-21-06	1600		Y/N	Y/N	Y/N	Y/N
Fed Ex			<i>[Signature]</i>	2/22/06	1000	4	Y/N	Y/N	Y/N	Y/N
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: VALERIE SIBETO SIGNATURE of SAMPLER: <i>[Signature]</i>						Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	ALLQ020rev.3,31Mar06
DATE Signed (MM / DD / YY) 2-21-06										

April 11, 2006

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on March 30, 2006. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 06-1966 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567715

Pace Sample Identification	Client Sample Identification
0603-3688	Pre-Carb
0603-3689	Primary Effluent
0603-3690	Post-Carb
0603-3691	TB-01

General Comments: Cooler temperature 6 ° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope
Client Ref.: 41567715

Lab Project ID: 06-1966
Lab Sample ID: 0603-3688
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 03/29/2006
Date Received: 03/30/2006

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	04/04/2006	0048438-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	04/04/2006	0048438-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	04/04/2006	0048438-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	190	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	04/04/2006	0048438-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	04/04/2006	0048438-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0603-3688
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Trichloroethene	8260B ⁽¹⁾	710	10	ug/l	MAK	04/07/2006	0048506-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	6.1	2.0	ug/l	MAK	04/04/2006	0048438-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 06-1966
Lab Sample ID: 0603-3689
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 03/29/2006
Date Received: 03/30/2006

Client Site: Essex-Hope
Client Ref.: 41567715

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	04/04/2006	0048438-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	04/04/2006	0048438-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	04/04/2006	0048438-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	24	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	04/04/2006	0048438-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	04/04/2006	0048438-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0603-3689
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	9.7	2.0	ug/l	MAK	04/04/2006	0048438-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 06-1966
Lab Sample ID: 0603-3690
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 03/29/2006
Date Received: 03/30/2006

Client Site: Essex-Hope
Client Ref.: 41567715

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	04/04/2006	0048438-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	04/04/2006	0048438-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	04/04/2006	0048438-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	9.5	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	04/04/2006	0048438-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	04/04/2006	0048438-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0

(Continued)

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Lab Sample ID: 0603-3690
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Trichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Vinyl chloride	8260B(1)	7.3	2.0	ug/l	MAK	04/04/2006	0048438-1	<2.0
m,p-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
o-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<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 0603-3690 was composited from 4 samples prior to analysis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 06-1966
Lab Sample ID: 0603-3691
Client Sample ID: TB-01
Sample Matrix: Aqueous

Date Sampled: 03/29/2006
Date Received: 03/30/2006

Client Site: Essex-Hope
Client Ref.: 41567715

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	04/04/2006	0048438-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	04/04/2006	0048438-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	04/04/2006	0048438-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	04/04/2006	0048438-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	04/04/2006	0048438-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0603-3691
Client Sample ID: TB-01

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	04/04/2006	0048438-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/04/2006	0048438-1	<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.

Page: / of /
927709

Section A

Required Client Information:

Company: **LRS Corp**
Address: **Post Plaza 4 501 Holiday Dr Suite 300**
Pittsburgh PA 15220
Email To:
Phone: **412 503-4700** Fax: **412 503 4701**
Requested Due Date/TAT:

Section B

Required Project Information:

Report To: **Mark Dowiak**
Copy To: **Brad Carosone**
Valerie Sibeto
Purchase Order No.:
Project Name: **Kisser / Hope**
Project Number: **41567715**

Section C

Invoice Information:

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

REGULATORY AGENCY

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

SITE LOCATION

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

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / -)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes
MATRIX CODE
DRINKING WATER DW
WATER WT
WASTE WATER WW
PRODUCT P
SOIL/SOLID SL
OIL OL
WIPE WP
AIR AR
OTHER OT
TISSUE TS

MATRIX CODE

SAMPLE TYPE
G=GRAB C=COMP

COLLECTED

COMPOSITE START		COMPOSITE END/GRAB	
DATE	TIME	DATE	TIME
3/29/06	0900		
	0915		
	0930		
	1000		
	1030		
	1100		
3/29/06	-		

SAMPLE TEMP
AT COLLECTION

OF
CONTAINERS

Preservatives

Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other
			X				X
			X				X
			X				X
			X				X
			X				X
			X				X

Filtered (Y/N)

Requested Analysis:

VOC 8260 B
06-1966
Pace Project Number
Lab I.D.
03-3688
03-3689
03-3690
03-3691

Additional Comments:

Composite four (4) Post-Carb Samples
in Lab and report as Post-Carb Composite.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
Valerie Sibeto / LRS	3/29/06	1300	FEDEX AIR BILL	3/29/06	1300	Y/N Y/N Y/N
Fed Ex			# 0555 9039 6108	3/30/06	0930	Y/N Y/N Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

VALERIE SIBETO / BEAD CAROSONE

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY)

3-29-06

Temp in °C

Received on Ice

Custody Sealed Cooler

Samples Intact

May 9, 2006

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on April 28, 2006. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Parameters printed in *italics* represent Non-NELAC accredited parameters. Please reference Pace project number 06-2537 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567715

Pace Sample Identification	Client Sample Identification
0604-2849	Pre-Carb
0604-2850	Primary Effluent
0604-2851	Post-Carb
0604-2852	TB-01

General Comments: Cooler temperature 5 ° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 06-2537
Lab Sample ID: 0604-2849
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 04/27/2006
Date Received: 04/28/2006

Client Site: Essex-Hope
Client Ref.: 41567715

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
Benzene	8260B(1)	1.0	1.0	ug/l	MAK	05/03/2006	0049148-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	180	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0

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Lab Sample ID: 0604-2849
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Trichloroethene	8260B(1)	570	10	ug/l	MAK	05/04/2006	0049195-1	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Vinyl chloride	8260B(1)	4.8	2.0	ug/l	MAK	05/03/2006	0049148-1	<2.0
m,p-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
o-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 06-2537
Lab Sample ID: 0604-2850
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 04/27/2006
Date Received: 04/28/2006

Client Site: Essex-Hope
Client Ref.: 41567715

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	05/03/2006	0049148-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	31	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0

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Lab Sample ID: 0604-2850
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	10	2.0	ug/l	MAK	05/03/2006	0049148-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 06-2537
Lab Sample ID: 0604-2851
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 04/27/2006
Date Received: 04/28/2006

Client Site: Essex-Hope
Client Ref.: 41567715

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	05/03/2006	0049148-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	13	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0

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Lab Sample ID: 0604-2851
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Trichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Vinyl chloride	8260B(1)	7.7	2.0	ug/l	MAK	05/03/2006	0049148-1	<2.0
m,p-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
o-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0

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

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

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Pittsburgh, PA 15220

Lab Project ID: 06-2537
Lab Sample ID: 0604-2852
Client Sample ID: TB-01
Sample Matrix: Aqueous

Date Sampled: 04/27/2006
Date Received: 04/28/2006

Client Site: Essex-Hope
Client Ref.: 41567715

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	05/03/2006	0049148-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	05/03/2006	0049148-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0

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Lab Sample ID: 0604-2852
Client Sample ID: TB-01

Volatiles (Cont.)

Styrene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Trichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
Vinyl chloride	8260B(1)	<2.0	2.0	ug/l	MAK	05/03/2006	0049148-1	<2.0
m,p-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<5.0
o-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	05/03/2006	0049148-1	<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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June 8, 2006

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on May 24, 2006. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Parameters printed in italics represent Non-NELAC accredited parameters. Please reference Pace project number 06-3048 when inquiring about this report.

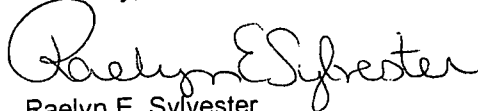
Client Site: Essex-Hope
Client Ref.: 41567715.10000

Pace Sample Identification	Client Sample Identification
0605-2919	Pre-Carb
0605-2920	Primary Effluent
0605-2921	Post-Carb
0605-2922	TB-01

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

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

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

Client Site: Essex-Hope
Client Ref.: 41567715.10000

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

Lab Project ID: 06-3048
Lab Sample ID: 0605-2919
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 05/23/2006
Date Received: 05/24/2006

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	06/02/2006	0049948-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	190	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0605-2919
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Trichloroethene	8260B(1)	770	50	ug/l	MAK	06/02/2006	0049948-1	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Vinyl chloride	8260B(1)	3.8	2.0	ug/l	MAK	06/02/2006	0049948-1	<2.0
m,p-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
o-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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Mr. Mark Dowiak
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Pittsburgh, PA 15220

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

Lab Project ID: 06-3048
Lab Sample ID: 0605-2920
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 05/23/2006
Date Received: 05/24/2006

Client Site: Essex-Hope
Client Ref.: 41567715.10000

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	06/02/2006	0049948-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	36	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0605-2920
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Trichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Vinyl chloride	8260B(1)	7.0	2.0	ug/l	MAK	06/02/2006	0049948-1	<2.0
m,p-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
o-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<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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Pittsburgh, PA 15220

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

Lab Project ID: 06-3048
Lab Sample ID: 0605-2921
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 05/23/2006
Date Received: 05/24/2006

Client Site: Essex-Hope
Client Ref.: 41567715.10000

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	06/02/2006	0049948-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	9.9	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0

(Continued)

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Lab Sample ID: 0605-2921
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Trichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Vinyl chloride	8260B(1)	6.3	2.0	ug/l	MAK	06/02/2006	0049948-1	<2.0
m,p-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
o-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<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 0605-2921 was composited from 4 samples prior to analysis.

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

Lab Project ID: 06-3048
Lab Sample ID: 0605-2922
Client Sample ID: TB-01
Sample Matrix: Aqueous

Date Sampled: 05/23/2006
Date Received: 05/24/2006

Client Site: Essex-Hope
Client Ref.: 41567715.10000

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatiles Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	06/02/2006	0049948-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/02/2006	0049948-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0605-2922
Client Sample ID: TB-01

Volatiles (Cont.)

Styrene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Trichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
Vinyl chloride	8260B(1)	<2.0	2.0	ug/l	MAK	06/02/2006	0049948-1	<2.0
m,p-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0
o-Xylene	8260B(1)	<5.0	5.0	ug/l	MAK	06/02/2006	0049948-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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July 13, 2006

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on June 30, 2006. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Parameters printed in italics represent Non-NELAC accredited parameters. Please reference Pace project number 06-4022 when inquiring about this report.

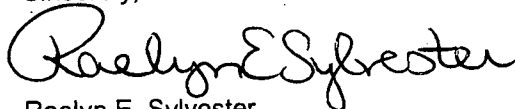
Client Site: Essex-Hope
Client Ref.: 41567715

Pace Sample Identification	Client Sample Identification
0606-4020	Pre-Carb
0606-4021	Primary Effluent
0606-4022	Post-Carb
0606-4026	Trip Blank

General Comments: Cooler temperature 6 ° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope
Client Ref.: 41567715

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

Lab Project ID: 06-4022
Lab Sample ID: 0606-4020
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 06/29/2006
Date Received: 06/30/2006

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	07/10/2006	0051050-1	<10
Benzene	8260B(1)	7.1	1.0	ug/l	MAK	07/10/2006	0051050-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	07/10/2006	0051050-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1-Dichloroethene	8260B(1)	19	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	3100	50	ug/l	MAK	07/12/2006	0051117-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	18	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	07/10/2006	0051050-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	07/10/2006	0051050-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0606-4020
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Trichloroethene	8260B ⁽¹⁾	660	50	ug/l	MAK	07/12/2006	0051117-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	540	100	ug/l	MAK	07/12/2006	0051117-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

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

Lab Project ID: 06-4022
Lab Sample ID: 0606-4021
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 06/29/2006
Date Received: 06/30/2006

Client Site: Essex-Hope
Client Ref.: 41567715

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	07/10/2006	0051050-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/10/2006	0051050-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/10/2006	0051050-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	49	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/10/2006	0051050-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/10/2006	0051050-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0

(Continued)

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Lab Sample ID: 0606-4021
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	8.3	2.0	ug/l	MAK	07/10/2006	0051050-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 06-4022
Lab Sample ID: 0606-4022
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 06/29/2006
Date Received: 06/30/2006

Client Site: Essex-Hope
Client Ref.: 41567715

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	07/10/2006	0051050-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	07/10/2006	0051050-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	07/10/2006	0051050-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	14	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	07/10/2006	0051050-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	07/10/2006	0051050-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0

(Continued)

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Lab Sample ID: 0606-4022
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	5.4	2.0	ug/l	MAK	07/10/2006	0051050-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<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 0606-4022 was composited from 4 samples prior to analysis.

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

Client Site: Essex-Hope
Client Ref.: 41567715

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

Lab Project ID: 06-4022
Lab Sample ID: 0606-4026
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 06/29/2006
Date Received: 06/30/2006

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	07/10/2006	0051050-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	07/10/2006	0051050-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	07/10/2006	0051050-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	07/10/2006	0051050-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	07/10/2006	0051050-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0

(Continued)

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Lab Sample ID: 0606-4026
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	07/10/2006	0051050-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/10/2006	0051050-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: / of /
0984846

Section A Required Client Information:

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

Section B Required Project Information:

Report To: **MARK DOWIAK**
Copy To: **VALERIE SIBETO**
Project Name: **ESSEX/HOPE JAMESTOWN**
Project Number: **41567715**

Section C Invoice Information:

Attention:
Company Name:
Address:
Purchase Order No.:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

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

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ MN ☐ NC
☐ OH ☐ SC ☐ WI ☒ OTHER **NY**

ITEM #	Section D Required Client Information		Valid Matrix Codes		CODE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Residual Chlorine (V/L)	Pace Project Number	Lab I.D.	
								COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other						
								DATE	TIME	DATE	TIME																
1	PRE-CARB						NTG	6/29/06	1040			3				X										06-4020	21
2	PRIMARY EFF								1050			3				X											22
3	POST-CARB								1100			3				X											23
4	POST-CARB								1130			3				X											24
5	POST-CARB								1200			3				X											25
6	POST-CARB								1230			3				X											26
7	TB-OI											3				X											
8																											
9																											
10																											
11																											
12																											

Additional Comments:
COMPOSITE FOUR (4) POST CARB
SAMPLES IN LAB AND
REPORT AS POST-CARB
COMPOSITE.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION			
Valerie Sibeto/URS	6/29/06	1415	Fed Ex Air BILL-H	6/29/06	1415		Y/N	Y/N	Y/N
			8555 9039 0/30				Y/N	Y/N	Y/N
Fed Ex			Nathan W. White	6/30/06	9:10	6	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
VALERIE SIBETO
SIGNATURE of SAMPLER:
Valerie Sibeto

DATE Signed (MM/DD/YY)
6/29/06

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

Soil Vapor Point Installation Work Plan
Dow Essex/Hope Site, Jamestown, NY

P
907015
Essex-Hope

1.0 Background

URS completed (for Dow Chemical) the Phase II offsite investigations for groundwater at the Essex/Hope Site in February, 2006. Three (3) distinct offsite groundwater zones have been identified which contain VOCs that originated from the site. One of these zones, identified as the shallow groundwater north area, is adjacent and beneath two (2) residential buildings located on Hopkins Ave. and Bigelow St. The depth to the shallow groundwater is approximately 9 ft below ground surface (BGS).

NYDEC has requested that Dow assess the potential impacts on residential air from the shallow groundwater VOCs. This Work Plan summarizes the approach for soil vapor point installation at the two residential locations.

2.0 Vapor Point Installation Method

URS proposes to install four (4) soil vapor monitoring points at each residence, generally, one on each side of the building. The points will be placed in native (non-fill) soils, if present, as close to the structures as possible. Due to the proposed shallow depth of the soil vapor sampling points, all eight locations will be installed using direct-push drilling methods. The boreholes will be advanced to approximately 8 feet bgs and a 6-inch length of stainless steel screen (1/2 in. dia. implants) attached to 1/4-inch diameter polyethylene tubing will be placed in the borehole. The polyethylene tubing will be extended to ground surface. See the attached information on the vapor points. The borehole will then be backfilled with quartzite coarse-grained sand to 1.5 feet bgs. A 1-foot bentonite seal will then be placed in the borehole and the top six-inches will be finished with cement and a permanent flushmount well casing.

3.0 Sample Collection

Two (2) samples will be taken from each vapor point. The first soil vapor sampling will commence no sooner than 24 hours after installation of the vapor points. The second sample round will occur 30 days later.

The field team conducting the sampling will record all pertinent information on Field Sheets. Soil vapor points will be purged of one to three times the volume of the sampling point (tubing and screened area combined). Air will be evacuated from the vapor point via a peristaltic pump. Initially, the purge rate will be set high to evacuate any residual moisture. A Gilian Calibration Unit will be utilized to set the flow rate via the peristaltic pump. When the air flow rate is approximately 300 cubic centimeters/minute (ccm), the purged air will be passed through a RAE Systems MultiRAE Plus 11.7 eV lamp, capable of data logging, to monitor concentrations of oxygen, percent lower explosive limit (%LEL/ Methane), organic vapors and carbon monoxide

for a minimum of one minute per foot of tubing in the boring. All field parameter measurements will be recorded.

Soil vapor samples will be collected using a 6-liter summa canister with a thirty-minute flow controller. During purging, the soil vapor will be continuously monitored with a triple gas meter (O₂, CO₂, and CH₄) and a PID to ensure that the analytical data that is collected is consistent with field conditions. Samples will be obtained by extracting soil vapor from the sample tube at a flow rate that does not exceed 0.2 liters per minute. Laboratory cleaned and blanked Summa canisters will be used to collect the samples. Sampling flow rate is set based on the generated sampling vacuum and is maintained at a point that minimizes leakage from ambient air.

In order to ensure that no ambient air leaks into the sample, helium or another appropriate tracer gas will be used as a quality assurance/quality (QA/QC) control measure. Prior to sampling, during purging activities, the atmosphere surrounding the soil vapor probe interface with the ground surface will be enriched with helium. A portable monitoring device will be utilized to analyze the soil vapor being purged from the vapor probe to determine if helium is present in elevated amounts. If helium is detected, the vapor probe to ground surface interface will be evaluated and resealed as appropriate. Once the soil vapor sample has been collected, the tracer gas test will be repeated to ensure that the seal has remained intact. The results of the tracer gas test will be included with the sample analytical results to NYSDEC as part of the QA/QC program.

3.1 Sample Analyses

Soil vapor samples will be analyzed for the following compounds:

- Vinyl chloride
- Cis-1,2 dichloroethylene
- Trichloroethylene
- Benzene
- Toluene
- Xylenes
- Cumene
- Ethylbenzenes

Once all soil vapor samples have been collected, URS will forward all samples, under proper chain-of-custody to Microseeps Labs, Pittsburgh, PA location for analysis of the above compounds via USEPA Method TO-15. Microseeps maintains a current Environmental Laboratory Approval Program (ELAP) certification and is approved by NYSDEC.

3.2 Sub-Slab and Indoor Air Vapor Sampling Assessment

The soil vapor analytical data will be evaluated to determine if the data indicates a need for sub-slab vapor sampling in the two homes located over or directly adjacent to the groundwater plume of the Site. If all of the VOCs are not detected in the soil vapor samples, Dow will not proceed with sub-slab sampling. In the event that one or more of these site-related compounds are detected in the soil vapor near the homes, Dow will proceed with an assessment of sub-slab and indoor air sampling, or direct installation of vapor venting system installation.

4.0 Sub-Slab and Indoor Air Vapor Sampling (contingent plan)

The soil vapor analytical data will be evaluated to determine if the data indicates a need for sub-slab vapor sampling in the homes located over or directly adjacent to the groundwater plume of the Site. If all of the VOCs are not detected in the soil vapor samples, Dow will not proceed with sub-slab sampling.

4.1.1 Preliminary Home Condition Investigation

Prior to installation of any sub-slab vapor points, a preliminary investigation of the conditions present in the home will take place. This will be performed following the guidance as contained in the NYSDOH document "Indoor Air Sampling & Analysis Guidance – Feb. 1, 2005". The field team will take an inventory of all volatile chemicals stored in the home near the proposed sampling location(s). The number of sampling locations needed in each of the homes will be determined at this point and based on the number of different types of slabs that were used in the homes construction. Two (2) sub-slab vapor points are assumed to be sampled in each of the homes, however this can not be verified until the preliminary investigation is performed.

The condition of the slab where the vapor points are going to be installed will be inspected. Any cracks, holes, or other breaches in the slab will be measured and noted in the field logbook. In addition, the field team will note any staining observed on the slab and sketch the floor plan into the logbook. If possible, photographs of the area surrounding the proposed sampling point will be taken.

4.1.2 Sub-Slab Vapor Point Installation

Sub-slab vapor points will be installed into the gravel layer located directly beneath the slab. A 4-inch coring bit will be used to penetrate the concrete slab at each sampling location. Following removal of the concrete core, all sub-slab sampling locations will be installed using a 3-inch diameter hand auger. The boreholes will be advanced to no more than two inches into the gravel layer and 1/4-inch diameter stainless steel tubing will be placed in the borehole. The tubing will be extended to the surface of the slab. The borehole will then be backfilled with quartzite coarse-grained sand so that about 1-inch of the tubing is covered. The vapor point will then be sealed to the surface with cement.

4.1.3 Sub-Slab Vapor and Indoor Air Sample Collection

On the day of the sampling event, the field team will note the approximate temperature in the home and verify that the heating system has been operational for at least 24 hours. Sub-slab vapor points will be purged of one to three times the volume of the sampling point (tubing area). During purging, the soil vapor will be continuously monitored with a multi-parameter gas meter (O₂, CO₂, and CH₄) and a PID to ensure that the analytical data that is collected is consistent with field conditions.

As recommended by the NYSDOH Draft Guidance Document, indoor air samples will be collected simultaneously with the sub-slab samples. Indoor air samples will be collected from

each room where a sub-slab sample is collected. Sample ports will be set approximately 4 feet above the ground surface to obtain representative breathing zone samples.

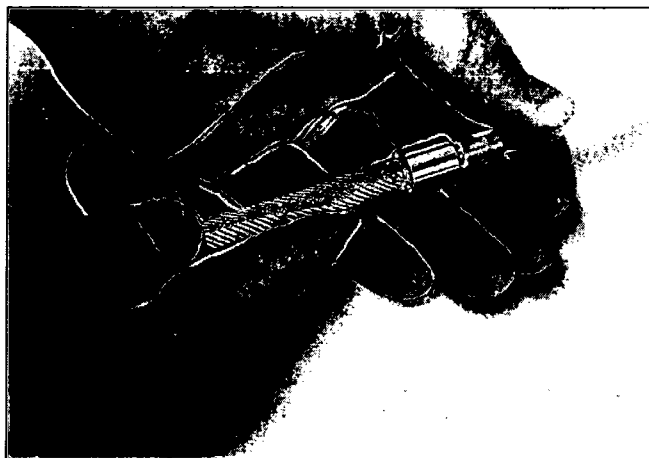
Samples will be obtained by extracting soil vapor and indoor air from the sample tube at a flow rate that does not exceed 0.2 liters per minute. Laboratory cleaned and blanked Summa canisters will be used to collect the samples. Sampling flow rate is set based on the generated sampling vacuum and is maintained at a point that minimizes leakage from ambient air.

4.1.4 Sample Analyses

As described previously, sub-slab and indoor vapor samples will be analyzed by method TO-15 for the same group of VOC compounds.

Appendix F:

Implants Operation



Attaching polyethylene tubing to the sampling implant.

Appendix
F

F

The Tools for Site Investigation



Sampling Implants – Operation

Installation Instructions for Soil Gas Implants

1. Drive probe rods to the desired depth using a Point Holder (AT-13B) and an Implant Anchor/Drive Point (PR-14). DO NOT disengage the drive point when depth has been reached.
2. Attach appropriate tubing to the implant (**Figure 1**). If tubing is pre-cut, allow it to be approximately 48 in. (1219 mm) longer than the required depth of the implant. Cover or plug the open end of the tubing.
3. Remove pull cap and lower the implant and tubing down inside the diameter of the probe rods until the implant hits the top of the Anchor/Drive Point. Note the length of the tubing to assure that proper depth has been reached.
4. Rotate tubing counterclockwise while exerting a gentle downward force to engage the PRT threads (**Figure 2**). Pull up on the tubing lightly to test the connection. DO NOT cut excess tubing.
5. Position a Probe Rod Pull Plate or Manual Probe Rod Jack on the top probe rod. Exert downward pressure on the tubing while pulling the probe rods up. Pull up about 12 in. (305 mm).
6. If using 1/4-in. (6.4 mm) O.D. tubing or smaller, thread the excess tubing through the Implant Funnel and position it over the top probe rod. If using larger tubing, it may not be possible to install the glass beads.

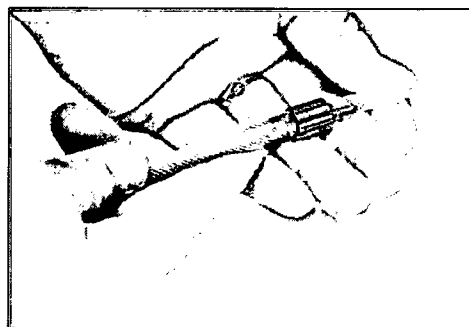


Figure 1. Attaching tubing to the sampling implant.

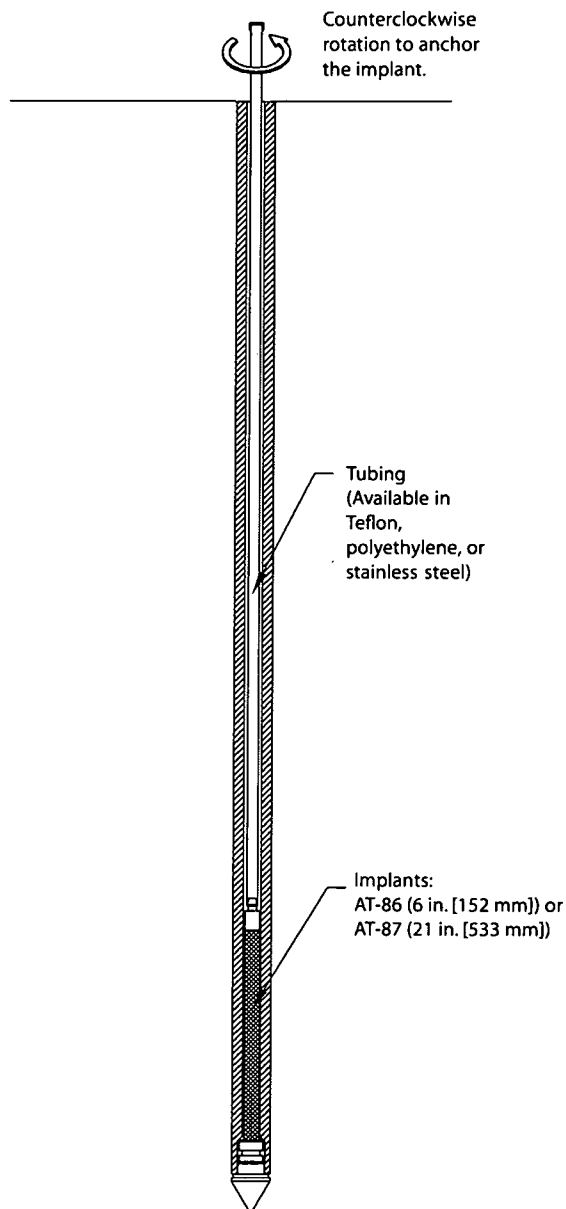


Figure 2. Once depth is achieved, the selected implant and tubing are inserted through the rods. The tubing is rotated to lock the implant into the drive point.

Sampling Implants – Operation

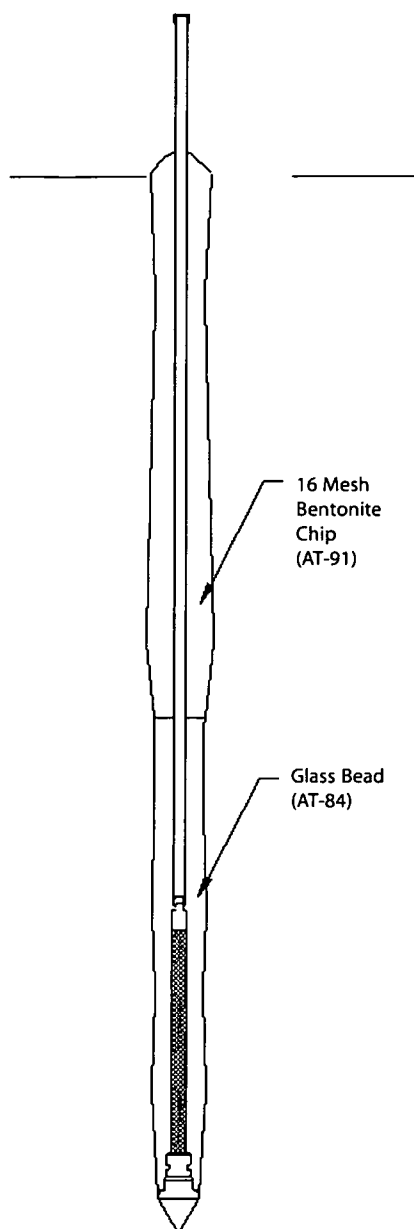


Figure 4. After the implant has been secured, the rods are removed and the annulus backfilled as appropriate.

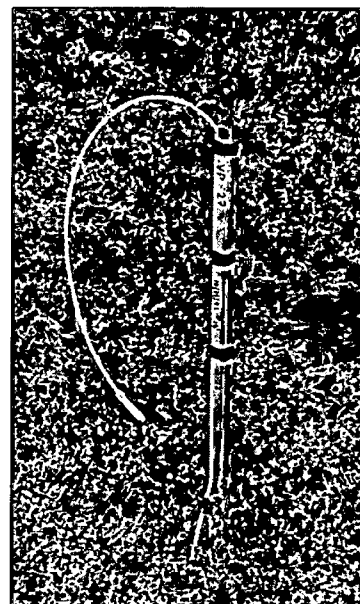
7. Pour glass beads down the inside diameter of the probe rods around the outside of the tubing. Use the tubing to "stir" the glass beads into place around the implant. Do not lift up on tubing. It should take less than 150 mL of glass beads to fill the space around the implant.

NOTE: Backfilling through the rods with glass beads or glass beads/bentonite mixes can only be performed in the Vadose Zone, not below the water table.

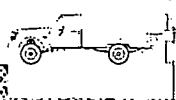
8. Lift up an additional 18 to 24 in. (457 to 610 mm) and pour the bentonite seal mixture into place as in Step 7. The volume to be filled is about 154 mL per foot. It may be necessary to "chase" the seal mixture with distilled water to initiate the seal.
9. Pull the remaining rods out of the hole as in Step 5. Backfilling with sackcrete (cement/sand) or bentonite/sand may be done while removing the rods (Figure 4). If the PR-14 Implant Anchor is used, the tubing may be cut flush with the top probe rod and a regular pull cap may be used to remove the remaining probe rods after Step 8.
10. After the probe rods have been removed, cut the tubing at the surface, attach a connector or plug, and mark the location with a pin flag or stake. The point is ready for sampling now.



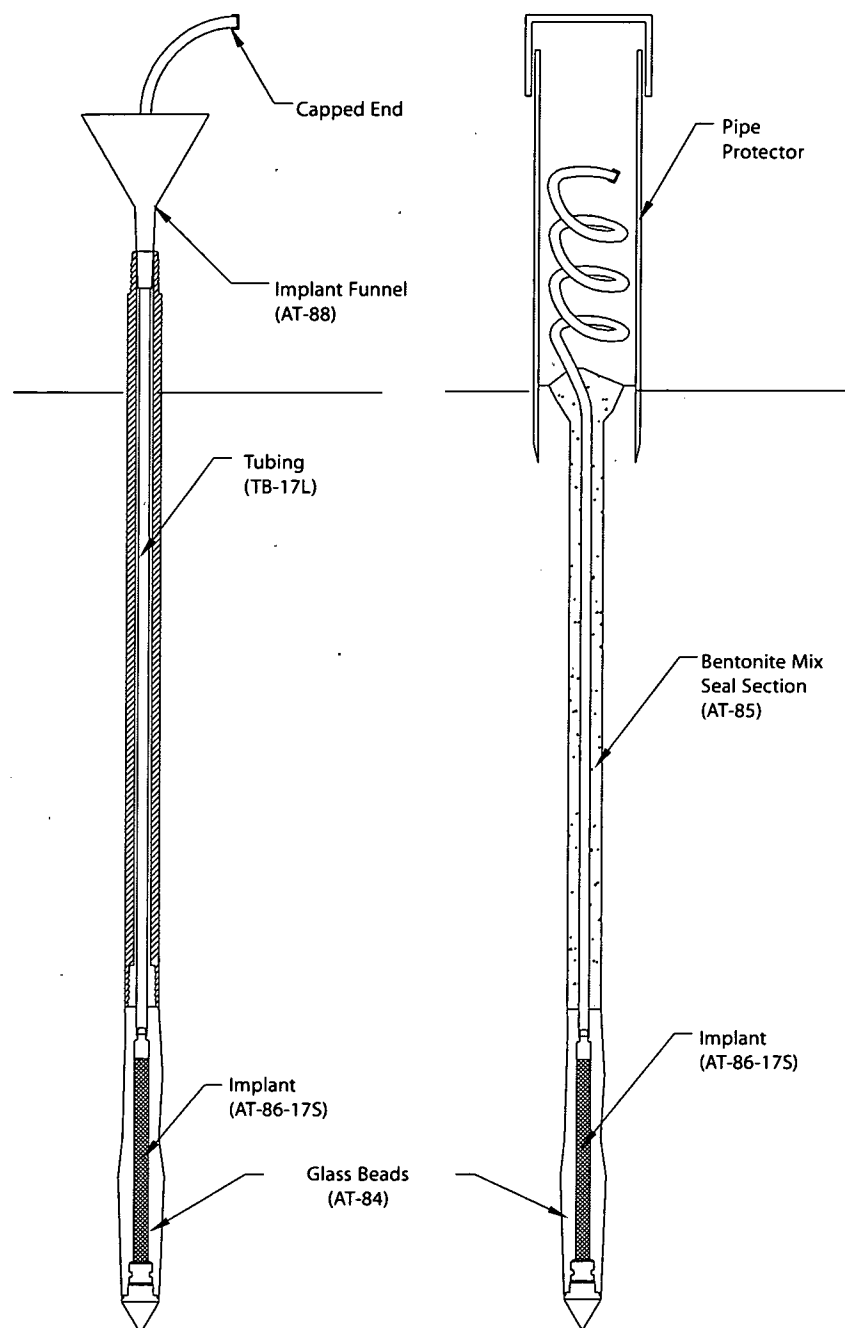
Figure 3. Glass Beads create a permeable layer around vapor sample implants.



A vapor implant location.



Sampling Implants – Operation



Backfill materials include glass beads and bentonite sealants.

Example of completed permanent soil gas monitoring point.

February 24, 2006

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

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**Subject: Essex/Hope Site
Semi-Annual Self Monitoring Report
July through December 2005
BPU Permit No. 26
URS Project No. 41567474**

Dear Mr. Peterson:

This submittal represents the July through December 2005 monitoring report in accordance with the City of Jamestown Board of Public Utilities Industrial Wastewater Discharge Permit Number 26 for the Essex Specialty Products, Inc facility referenced above. For reporting purposes, Essex Specialty Products, Inc., is classified as a Significant Industrial User subject to Categorical Pretreatment Standards. As such, this report has been developed in accordance with the requirements of 40 CFR 403.12(e).

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

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

This Semi-Annual Report contains system influent and effluent data for July through December 2005. During this reporting period, there were two occasions where discharge water exceeded the permit limits of 2,130 µg/L for total VOCs. Discharge above the permit limits occurred during the months of August through October where total VOCs were 2,141 µg/L on September 8, 2005 and 3,493 µg/L on September 29, 2005. No sampling was conducted for the month of October 2005. Both of these exceedances were due to carbon breakthrough. Notification of these exceedances was provided to the Jamestown BPU verbally via telephone conversation on October 20, 2005 and via letter submittal on October 26, 2005. URS was on site November 10 and 11, 2005 to change out the carbon.

The November and December Post Carbon detections had exceedances of the permit limits, however, the results were deemed invalid due to discrepancies with the corresponding Primary Effluent analytical results. Specifically, the primary carbon effluent indicated very low VOC levels (as expected), which indicated that the secondary carbon (post-carbon) effluent VOC levels should have been similar, or lower. Following consultation with the laboratory and the collection of a confirmatory sample, URS later determined that there was a check valve malfunction within the system piping that resulted in untreated influent cross-contamination of the sample point. The actual discharge to the POTW over this period is expected to have been within the permit limits. URS conducted re-plumbing of the system piping to mitigate the problem. No other noncompliance events occurred during this reporting period.

Table 1 summarizes the monthly discharge rates, and the total VOCs and constituents detected in the discharge to the POTW for each month. Discharge flow rates for the reporting period ranged from 64,455 to 132,262 gallons per month over the reporting period. The daily average flow rates shown on Table 1 were estimated based upon the total volume of water discharged per month. Daily maximum flow rates were estimated to be 20 percent greater than daily averages. The supporting Laboratory Certificates of Analysis for the reported concentrations of VOCs are also attached.

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

Sincerely,

URS



Mark Dowiak, P.E.
Project Manager

Attachment

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

Table 1

**Post Carbon (Effluent) Monitoring Data
Essex/Hope Site
July - December 2005**

Reporting Requirements for Pre-Treated Discharge (System Effluent to POTW)	Industrial Wastewater Discharge Permit #26 Limits	July	August	September	October	November	December
POTW Discharge Analytical Data							
Total VOCs (µg/L)	2,130 µg/L (TTO)	905	2,141	3,493	NS	21*	20*
Detected Compounds	Report	cis-1,2-DCE vinyl chloride	Benzene, cis-1,2-DCE, TCE, and Vinyl Chloride	Benzene, 1,1-DCE, cis- 1,2-DCE, trans-1,2- DCE, TCE, Vinyl Chloride, and Xylenes	NS	cis-1,2-DCE vinyl chloride*	cis-1,2-DCE vinyl chloride*
pH (Standard Units)	5.5 to 10	6.87	7.22	7.01	NS	7.05	8.43
		6.92	7.23	7.04	NS	7.25	7.55
		6.86	7.23	7.04	NS	NS	7.75
		6.88	7.23	7.05	NS	NS	7.38
POTW Discharge Flow Data							
Monthly Total Flow (gallons)	Report	79,791	113,700	110,190	NR	64,455	132,262
Average Daily Flow (gallons)	Report	2,574	3,668	3,673	NR	2,148	4,267
Maximum Daily Flow (gallons)	Report	3,089	4,401	4,408	NR	2,578	5,120

Note:

Jamestown BPU Industrial Wastewater Discharge Permit #26 effective 11/5/02 through 11/4/07

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

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

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

TTO = Total Toxic Organics

NS = not sampled

NA = not analyzed

NR = value not recorded

November sample composite prepared with only 2 grab samples.

* Total VOCs and detected compounds represent Primary Carbon Effluent sample due to invalid results for the Post Carbon Sample.

Carbon was changed out on November 11, 2005.

ATTACHMENTS

August 11, 2005

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on July 29, 2005. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 05-4196 when inquiring about this report.

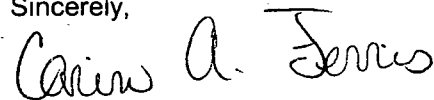
Client Site: Essex-Hope
Client Ref.: 41567474.40000

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

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

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

Sincerely,



for Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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

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

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

Client Site: Essex-Hope
Client Ref.: 41567474.40000

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
Benzene	8260B ⁽¹⁾	9.9	1.0	ug/l	MAK	08/04/2005	0041758-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	23	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	5300	50	ug/l	MAK	08/04/2005	0041758-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	41	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0507-2762
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Trichloroethene	8260B ⁽¹⁾	1000	50	ug/l	MAK	08/04/2005	0041758-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	640	100	ug/l	MAK	08/04/2005	0041758-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

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

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

Client Site: Essex-Hope
Client Ref.: 41567474.40000

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	08/04/2005	0041758-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	7.2	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2400	50	ug/l	MAK	08/04/2005	0041758-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	6.6	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041758-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Trichloroethene	8260B ⁽¹⁾	31	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	740	100	ug/l	MAK	08/04/2005	0041758-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041758-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 05-4196
Lab Sample ID: 0507-2764
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

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

Client Site: Essex-Hope
Client Ref.: 41567474.40000

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	08/04/2005	0041741-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	55	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0507-2764
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	850	20	ug/l	MAK	08/04/2005	0041741-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 05-4196
Lab Sample ID: 0507-2765
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

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

Client Site: Essex-Hope
Client Ref.: 41567474.40000

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	08/04/2005	0041741-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/04/2005	0041741-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/04/2005	0041741-1	<5.0

(Continued)

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Lab Sample ID: 0507-2765
Client Sample ID: Trip Blank

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

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September 23, 2005

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on September 8, 2005. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 05-5195 when inquiring about this report.

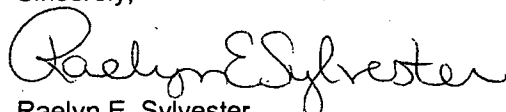
Client Site: Essex-Hope
Client Ref.: 41567474.40000

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

General Comments: Cooler temperature 1 ° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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

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

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

Client Site: Essex-Hope
Client Ref.: 41567474.40000

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Benzene	8260B ⁽¹⁾	5.3	1.0	ug/l	JEC	09/15/2005	0042801-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3500	50	ug/l	JEC	09/16/2005	0042822-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	19	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0

(Continued)

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

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Trichloroethene	8260B ⁽¹⁾	660	50	ug/l	JEC	09/16/2005	0042822-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	410	100	ug/l	JEC	09/16/2005	0042822-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: 05-5195
Lab Sample ID: 0509-0960
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

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

Client Site: Essex-Hope
Client Ref.: 41567474.40000

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	09/15/2005	0042801-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	6.1	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2500	50	ug/l	JEC	09/16/2005	0042822-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	9.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0

(Continued)

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

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Trichloroethene	8260B ⁽¹⁾	17	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	840	100	ug/l	JEC	09/16/2005	0042822-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

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

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

Client Site: Essex-Hope
Client Ref.: 41567474.40000

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Benzene	8260B ⁽¹⁾	1.4	1.0	ug/l	JEC	09/15/2005	0042801-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1300	10	ug/l	JEC	09/16/2005	0042822-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0509-0961
Client Sample ID: Post Carb

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis. Sample 0509-0961 was composited from 4 samples prior to analysis

REPORT OF LABORATORY ANALYSIS

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

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

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

Client Site: Essex-Hope
Client Ref.: 41567474.40000

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	09/15/2005	0042801-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	09/15/2005	0042801-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	09/15/2005	0042801-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

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.

Page: 1 of 1
909170

Section A

Required Client Information:

Company: URS Corp
Address: First Plaza 4 501 Hildy St Suite 300
Pittsburgh PA 15220
Email To:
Phone: 412 503 4700 Fax: 412 503 4701
Requested Due Date/TAT:

Section B

Required Project Information:

Report To: Mark Dowiak
Copy To: Brad Carosone
Purchase Order No.:
Project Name: Essex / Hope
Project Number: 41567474 40000

Section C

Invoice Information:

Attention: Mark Dowiak
Company Name: URS Corp
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

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

SITE LOCATION

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

ITEM #	Section D Required Client Information										Valid Matrix Codes		CODE
	SAMPLE ID										MATRIX	DW	WT
	One Character per box. (A-Z, 0-9 / -)										DRINKING WATER	WW	P
	Samples IDs MUST BE UNIQUE										WASTE WATER	SL	OL
											PRODUCT	WP	
											SOIL/SOLID	AR	
											OIL	TS	
											WIPE		
											AIR		
											OTHER		
											TISSUE		
1	P	R	E	-	C	A	R	B					
2	P	R	I	M	A	R	Y	E	F	F	L	U	
3	P	O	S	T	C	A	R	B					
4	P	O	S	T	C	A	R	B					
5	P	O	S	T	C	A	R	B					
6	P	O	S	T	C	A	R	B					
7	T	R	I	P	B	L	A	N	K				
8													
9													
10													
11													
12													

Valid Matrix Codes
MATRIX :
DRINKING WATER DW
WATER WT
WASTE WATER VWV
PRODUCT P
SOIL/SOLID SL
OIL OL
WIPE WP
AIR AR
OTHER OT
TISSUE TS

MATRIX CODE
SAMPLE TYPE
G=GRAB C=COMP

COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									
COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		
DATE	TIME	DATE	TIME												
		7/8/05	1120		3				X				X		
		7/8/05	1125		3				Y				X		
		7/8/05	1130		3				X				X		
		7/8/05	1200		3				X				X		
		7/8/05	1230		3				X				X		
		7/8/05	1300		3				X				X		
		7/8/05	-		3								X		
		7/8/05													

Filtered (Y/N)	
Requested Analysis:	
Lab ID	05-5195
Pace Project Number	09-0959
Lab ID	0960
Lab ID	0961
Lab ID	0962

Additional Comments:

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

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
Brad C	7/8/05	1330	FedEx	7/8/05	1330	1 (Y) (Y) (Y)
FedEx			Lab	7-8-05	14:00	1 (Y) (Y) (Y)
						YIN YIN YIN
						YIN YIN YIN

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

BRAD CAROSONE

SIGNATURE of SAMPLER:

Brad C

DATE Signed (MM/DD/YY)

7/8/05

Temp in °C

Received on Ice

Custody Sealed Cooler

Samples Intact

October 13, 2005

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on September 30, 2005. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 05-5644 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567474

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

General Comments: Cooler temperature 8 ° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 05-5644
Lab Sample ID: 0509-3503
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

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

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Benzene	8260B ⁽¹⁾	5.4	1.0	ug/l	MAK	10/06/2005	0043400-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	9.9	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2500	50	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0509-3503
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Trichloroethene	8260B ⁽¹⁾	620	50	ug/l	MAK	10/06/2005	0043400-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	340	2.0	ug/l	MAK	10/06/2005	0043400-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	6.3	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

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

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

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	10/06/2005	0043400-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	6.8	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2500	50	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Trichloroethene	8260B ⁽¹⁾	17	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	840	100	ug/l	MAK	10/06/2005	0043400-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

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

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

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Benzene	8260B ⁽¹⁾	3.7	1.0	ug/l	MAK	10/06/2005	0043400-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	7.3	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2500	50	ug/l	MAK	10/07/2005	0043443-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0

(Continued)

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Lab Sample ID: 0509-3505
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Trichloroethene	8260B ⁽¹⁾	480	50	ug/l	MAK	10/07/2005	0043443-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	490	100	ug/l	MAK	10/07/2005	0043443-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0

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

Sample Comments: Results reported on an as received basis. Sample 0509-3505 was composited from 4 samples prior to analysis.

REPORT OF LABORATORY ANALYSIS

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

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

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

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	10/06/2005	0043400-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/06/2005	0043400-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	10/06/2005	0043400-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/06/2005	0043400-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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BIEL'S

December 19, 2005

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on December 2, 2005. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 05-6896 when inquiring about this report.

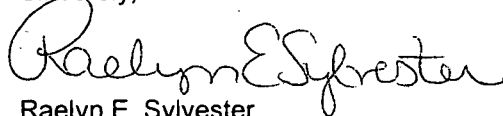
Client Site: Essex-Hope
Client Ref.: 41567474

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

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

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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

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

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

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Benzene	8260B(1)	2.5	1.0	ug/l	MAK	12/07/2005	0045202-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethene	8260B(1)	5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	980	50	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	7.2	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0

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

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichloroethene	8260B ⁽¹⁾	150	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	210	2.0	ug/l	MAK	12/07/2005	0045202-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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Pittsburgh, PA 15220

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

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

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	12/07/2005	0045202-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	13	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0

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

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	8.0	2.0	ug/l	MAK	12/07/2005	0045202-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 05-6896
Lab Sample ID: 0512-0484
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

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

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Benzene	8260B(1)	2.2	1.0	ug/l	MAK	12/07/2005	0045202-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	730	50	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	5.1	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0

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REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichloroethene	8260B ⁽¹⁾	130	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	190	2.0	ug/l	MAK	12/07/2005	0045202-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0

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

Sample Comments: Results reported on an as received basis. Sample 0512-0484 was composited from 3 samples prior to analysis.

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

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

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/07/2005	0045202-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/07/2005	0045202-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/07/2005	0045202-1	<5.0

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Lab Sample ID: 0512-0485

Client Sample ID: TB-01

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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January 9, 2006

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

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on December 22, 2005. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 05-7322 when inquiring about this report.

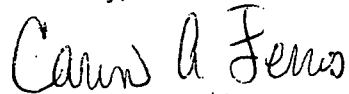
Client Site: Essex-Hope
Client Ref.: 41567474

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

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

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

Sincerely,

for 
Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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

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

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

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Benzene	8260B ⁽¹⁾	6.5	1.0	ug/l	MAK	01/03/2006	0045938-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	16	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3500	50	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	25	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0512-2923

Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Trichloroethene	8260B ⁽¹⁾	820	50	ug/l	MAK	01/03/2006	0045938-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	510	100	ug/l	MAK	01/03/2006	0045938-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

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

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

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/03/2006	0045938-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0512-2924
Client Sample ID: Primary Effluent

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope
Client Ref.: 41567474

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

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

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

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Benzene	8260B ⁽¹⁾	4.3	1.0	ug/l	MAK	01/03/2006	0045938-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	10	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2600	50	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Trichloroethene	8260B ⁽¹⁾	550	50	ug/l	MAK	01/03/2006	0045938-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	340	2.0	ug/l	MAK	01/03/2006	0045938-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0

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

Sample Comments: Results reported on an as received basis. Sample 0512-2925 was composited from 4 samples prior to analysis.

REPORT OF LABORATORY ANALYSIS

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

Lab Project ID: 05-7322
Lab Sample ID: 0512-2926
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

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

Client Site: Essex-Hope
Client Ref.: 41567474

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/03/2006	0045938-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/03/2006	0045938-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/03/2006	0045938-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

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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.

Page: / of /
926967

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: URS CORP.		Report To: M. Dowiak		Attention:	
Address: Post Plaza 4, 501		Copy To:		Company Name:	
Holding Dr., Pgh 15220				Address:	
Email To:		Purchase Order No.:		Pace Quote Reference:	
Phone: 412 503 4700 Fax: 4701		Project Name: Essex/Hope		Pace Project Manager:	
Requested Due Date/TAT: STD.		Project Number: 41567474		Pace Profile #:	

REGULATORY AGENCY		
☐ NPDES	☐ GROUND WATER	☐ DRINKING WATER
☐ UST	☐ RCRA	☐ Other
SITE LOCATION		
☐ GA	☐ IL	☐ IN
☐ OH	☐ SC	☐ WI
☐ MI	☐ MN	☐ NC
☐ OTHER		

ITEM #	Section D Required Client Information										MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Filtered (Y/N)	Requested Analysis:	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.																										
	Valid Matrix Codes												COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																
	MATRIX												DATE	TIME	DATE	TIME																																										
	CODE																																																									
SAMPLE ID										DRINKING WATER	WASTE WATER	PRODUCT	SOIL/SOLID	OIL	WIPE	AIR	OTHER	TISSUE	DW	WT	WW	P	SL	OL	WP	AR	OT	TS																														
One Character per box.																																																										
Samples IDs MUST BE UNIQUE																																																										
1	I	R	E	-	C	A	R	B																																																		
2	P	R	I	M	A	R	Y	E	F	F	L	U	E	N	T																																											
3	P	O	S	T	C	A	R	B	1	*																																																
4	P	O	S	T	C	A	R	B	2																																																	
5	P	O	S	T	C	A	R	B	3																																																	
6	P	O	S	T	C	A	R	B	4																																																	
7																																																										
8																																																										
9																																																										
10																																																										
11																																																										
12																																																										

Additional Comments:
COMPOSITE POST-CARB
SAMPLES FOR (1)
ANALYSES

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION			
M. Dowiak / URS	12/21		Fed Ex. 33405 Snd	12/21	1730		Y/N	Y/N	Y/N
Fed Ex			@ Urbansky	12-22-05	11:30	2	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C
PRINT Name of SAMPLER:	Mark Dowiak	
SIGNATURE of SAMPLER:	Mark Dowiak	
	12/21/05	

Received on Ice	Custody Sealed Cooler	Samples Intact
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