



August 15, 2011

Mr. Michael V. Saar, P.E.
Water Resources Manager
Division of Wastewater/Solid Waste
Jamestown Board of Public Utilities
P.O. Box 700
Jamestown, NY 14702-0700

**Subject: Essex/Hope Site
Semi-Annual Self Monitoring Report
January through June 2011
BPU Permit No. 26
URS Project No. 41568904**

Dear Mr. Saar:

This submittal represents the January through June 2011 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 2011. No noncompliance events occurred during this reporting period. The system carbon was changed out on June 7, 2011. 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 96,830 to 183,269 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 2011
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)	28	51	82	370	1,109	149
Detected Compounds	Report	cis-1,2-DCE, Vinyl Chloride	Acetone, cis-1,2-DCE, Vinyl Chloride	cis-1,2-DCE, Vinyl Chloride	Acetone, cis-1,2-DCE, Vinyl Chloride	Acetone, cis-1,2-DCE, Vinyl Chloride	cis-1,2-DCE, Vinyl Chloride
pH (Standard Units)	5.5 to 10	7.00	7.20	7.00	7.00	7.00	7.30
		7.00	7.20	7.00	7.00	7.00	7.30
		7.00	7.20	7.00	7.00	7.00	7.30
		7.00	7.20	7.00	7.00	7.00	7.30
POTW Discharge Flow Data							
Monthly Total Flow (gallons)	Report	130,561	120,742	128,515	117,437	183,269	96,830
Average Daily Flow (gallons)	Report	4,212	4,312	4,146	3,915	5,912	3,228
Maximum Daily Flow (gallons)	Report	5,054	5,175	4,975	4,697	7,094	3,873

Notes:

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

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

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

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

TTO = Total Toxic Organics

System Carbon was changed out on June 7, 2011.

August 01, 2011

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

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

Dear Mr. Dowiak:

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

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

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

Sincerely,



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

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Essex-Hope

Pace Project No.: 3040637

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 12

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SAMPLE ANALYTE COUNT

Project: Essex-Hope

Pace Project No.: 3040637

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

REPORT OF LABORATORY ANALYSIS

Page 3 of 12

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ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3040637

Sample: PRE-CARB		Lab ID: 3040637001	Collected: 01/27/11 09:30	Received: 01/28/11 11:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	1960	ug/L	400	40		02/03/11 15:26	67-64-1	
Benzene	12.5	ug/L	1.0	1		02/02/11 19:41	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/02/11 19:41	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/02/11 19:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/11 19:41	74-83-9	
2-Butanone (MEK)	11.3	ug/L	10.0	1		02/02/11 19:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		02/02/11 19:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/02/11 19:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/02/11 19:41	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/02/11 19:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/02/11 19:41	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/02/11 19:41	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/02/11 19:41	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 19:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 19:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/02/11 19:41	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/02/11 19:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/02/11 19:41	107-06-2	
1,1-Dichloroethene	19.7	ug/L	5.0	1		02/02/11 19:41	75-35-4	
cis-1,2-Dichloroethene	6040	ug/L	200	40		02/03/11 15:26	156-59-2	
trans-1,2-Dichloroethene	98.9	ug/L	5.0	1		02/02/11 19:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/02/11 19:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/11 19:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/11 19:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/02/11 19:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/02/11 19:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/02/11 19:41	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		02/02/11 19:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/02/11 19:41	108-10-1	
Styrene	ND	ug/L	5.0	1		02/02/11 19:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/02/11 19:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/02/11 19:41	127-18-4	
Toluene	ND	ug/L	5.0	1		02/02/11 19:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/02/11 19:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/02/11 19:41	79-00-5	
Trichloroethene	1530	ug/L	200	40		02/03/11 15:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/02/11 19:41	75-69-4	
Vinyl chloride	700	ug/L	40.0	40		02/03/11 15:26	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		02/02/11 19:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/02/11 19:41	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		02/02/11 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		02/02/11 19:41	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		02/02/11 19:41	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3040637

Sample: PRIMARY-EFF		Lab ID: 3040637002	Collected: 01/27/11 09:35	Received: 01/28/11 11:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	588 ug/L		100	10		02/03/11 15:52	67-64-1	
Benzene	ND ug/L		1.0	1		02/02/11 20:07	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		02/02/11 20:07	75-27-4	
Bromoform	ND ug/L		5.0	1		02/02/11 20:07	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/02/11 20:07	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/02/11 20:07	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		02/02/11 20:07	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		02/02/11 20:07	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		02/02/11 20:07	108-90-7	
Chloroethane	ND ug/L		5.0	1		02/02/11 20:07	75-00-3	
Chloroform	ND ug/L		5.0	1		02/02/11 20:07	67-66-3	
Chloromethane	ND ug/L		5.0	1		02/02/11 20:07	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		02/02/11 20:07	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		02/02/11 20:07	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		02/02/11 20:07	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		02/02/11 20:07	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		02/02/11 20:07	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		02/02/11 20:07	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		02/02/11 20:07	75-35-4	
cis-1,2-Dichloroethene	382 ug/L		5.0	1		02/02/11 20:07	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/02/11 20:07	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		02/02/11 20:07	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		02/02/11 20:07	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		02/02/11 20:07	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		02/02/11 20:07	100-41-4	
2-Hexanone	ND ug/L		10.0	1		02/02/11 20:07	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		02/02/11 20:07	98-82-8	
Methylene Chloride	ND ug/L		5.0	1		02/02/11 20:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/02/11 20:07	108-10-1	
Styrene	ND ug/L		5.0	1		02/02/11 20:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		02/02/11 20:07	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		02/02/11 20:07	127-18-4	
Toluene	ND ug/L		5.0	1		02/02/11 20:07	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/02/11 20:07	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		02/02/11 20:07	79-00-5	
Trichloroethene	30.0 ug/L		5.0	1		02/02/11 20:07	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		02/02/11 20:07	75-69-4	
Vinyl chloride	369 ug/L		1.0	1		02/02/11 20:07	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		02/02/11 20:07	179601-23-1	
o-Xylene	ND ug/L		5.0	1		02/02/11 20:07	95-47-6	
4-Bromofluorobenzene (S)	98 %		70-130	1		02/02/11 20:07	460-00-4	
1,2-Dichloroethane-d4 (S)	96 %		70-130	1		02/02/11 20:07	17060-07-0	
Toluene-d8 (S)	92 %		70-130	1		02/02/11 20:07	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope

Pace Project No.: 3040637

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

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

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

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3040637

Sample: TB-01		Lab ID: 3040637004	Collected: 01/27/11 00:01	Received: 01/28/11 11:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		10.0	1		02/02/11 20:59	67-64-1	
Benzene	ND ug/L		1.0	1		02/02/11 20:59	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		02/02/11 20:59	75-27-4	
Bromoform	ND ug/L		5.0	1		02/02/11 20:59	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/02/11 20:59	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/02/11 20:59	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		02/02/11 20:59	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		02/02/11 20:59	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		02/02/11 20:59	108-90-7	
Chloroethane	ND ug/L		5.0	1		02/02/11 20:59	75-00-3	
Chloroform	ND ug/L		5.0	1		02/02/11 20:59	67-66-3	
Chloromethane	ND ug/L		5.0	1		02/02/11 20:59	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		02/02/11 20:59	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		02/02/11 20:59	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		02/02/11 20:59	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		02/02/11 20:59	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		02/02/11 20:59	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		02/02/11 20:59	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		02/02/11 20:59	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		02/02/11 20:59	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/02/11 20:59	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		02/02/11 20:59	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		02/02/11 20:59	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		02/02/11 20:59	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		02/02/11 20:59	100-41-4	
2-Hexanone	ND ug/L		10.0	1		02/02/11 20:59	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		02/02/11 20:59	98-82-8	
Methylene Chloride	ND ug/L		5.0	1		02/02/11 20:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/02/11 20:59	108-10-1	
Styrene	ND ug/L		5.0	1		02/02/11 20:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		02/02/11 20:59	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		02/02/11 20:59	127-18-4	
Toluene	ND ug/L		5.0	1		02/02/11 20:59	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/02/11 20:59	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		02/02/11 20:59	79-00-5	
Trichloroethene	ND ug/L		5.0	1		02/02/11 20:59	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		02/02/11 20:59	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		02/02/11 20:59	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		02/02/11 20:59	179601-23-1	
o-Xylene	ND ug/L		5.0	1		02/02/11 20:59	95-47-6	

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3040637

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

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

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

Date: 08/01/2011 05:18 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 12

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QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3040637

LABORATORY CONTROL SAMPLE: 263570

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

QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3040637

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 263598				263599								
Parameter	Units	9286689011		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
		Result	Conc.	Spike	Spike							
1,1,1-Trichloroethane	ug/L	ND	20	20	20	19.5	19.3	97	96	70-130	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20	17.9	18.6	90	93	70-130	4	
1,1,2-Trichloroethane	ug/L	ND	20	20	20	18.6	18.7	93	94	70-130	.7	
1,1-Dichloroethane	ug/L	ND	20	20	20	18.9	19.3	95	96	70-130	2	
1,1-Dichloroethene	ug/L	ND	20	20	20	17.6	17.5	88	88	70-130	.1	
1,2-Dichlorobenzene	ug/L	ND	20	20	20	18.7	19.1	93	95	70-130	2	
1,2-Dichloroethane	ug/L	ND	20	20	20	19.4	18.7	97	93	70-130	4	
1,2-Dichloropropane	ug/L	ND	20	20	20	17.8	18.3	89	92	70-130	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20	18.8	18.7	94	93	70-130	.7	
1,4-Dichlorobenzene	ug/L	ND	20	20	20	19.1	19.8	95	99	70-130	4	
2-Butanone (MEK)	ug/L	ND	20	20	20	15.7	16.5	79	83	70-130	5	
2-Hexanone	ug/L	ND	20	20	20	17.1	17.5	85	87	70-130	2	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	20	16.2	16.0	81	80	70-130	2	
Acetone	ug/L	ND	20	20	20	17.9	17.2	90	86	70-130	4	
Benzene	ug/L	ND	20	20	20	18.7	18.5	93	92	70-130	.8	
Bromodichloromethane	ug/L	ND	20	20	20	15.7	15.9	79	79	70-130	1	
Bromoform	ug/L	ND	20	20	20	12.3	12.2	62	61	70-130	1	M0
Bromomethane	ug/L	ND	20	20	20	13.0	15.3	65	77	70-130	16	M0
Carbon disulfide	ug/L	ND	20	20	20	14.2	13.5	71	68	70-130	5	M0
Carbon tetrachloride	ug/L	ND	20	20	20	15.4	15.7	77	79	70-130	2	
Chlorobenzene	ug/L	ND	20	20	20	19.6	19.6	98	98	70-130	.2	
Chloroethane	ug/L	ND	20	20	20	16.9	17.8	84	89	70-130	6	
Chloroform	ug/L	ND	20	20	20	19.3	19.4	97	97	70-130	.3	
Chloromethane	ug/L	ND	20	20	20	14.3	14.8	72	74	70-130	3	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20	19.0	19.2	95	96	70-130	.9	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20	17.0	16.6	85	83	70-130	3	
Dibromochloromethane	ug/L	ND	20	20	20	13.7	14.1	69	71	70-130	3	M0
Ethylbenzene	ug/L	ND	20	20	20	19.0	19.0	95	95	70-130	.3	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20	19.6	20.4	98	102	70-130	4	
m&p-Xylene	ug/L	ND	40	40	40	39.2	39.6	98	99	70-130	1	
Methylene Chloride	ug/L	ND	20	20	20	17.6	17.3	88	87	70-130	1	
o-Xylene	ug/L	ND	20	20	20	18.6	18.9	93	95	70-130	2	
Styrene	ug/L	ND	20	20	20	16.6	17.1	83	85	70-130	3	
Tetrachloroethene	ug/L	ND	20	20	20	20.0	20.2	100	101	70-130	1	
Toluene	ug/L	ND	20	20	20	18.9	19.1	94	95	70-130	1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20	17.9	18.3	90	92	70-130	2	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20	16.1	15.5	80	78	70-130	3	
Trichloroethene	ug/L	ND	20	20	20	19.5	19.4	97	97	70-130	.3	
Trichlorofluoromethane	ug/L	ND	20	20	20	22.5	23.2	112	116	70-130	3	
Vinyl chloride	ug/L	ND	20	20	20	16.8	16.7	84	83	70-130	.8	
1,2-Dichloroethane-d4 (S)	%							94	99	70-130		
4-Bromofluorobenzene (S)	%							99	100	70-130		
Toluene-d8 (S)	%							90	90	70-130		

QUALIFIERS

Project: Essex-Hope
Pace Project No.: 3040637

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope

Pace Project No.: 3040637

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	URS CORP	Report To:	MARK DOWIAK	Attention:	
Address:	501 HILLIPAY DR. TOWSON PARK 4, STE 700 POMF, PA 15220	Copy To:	VALERIE SIBETO	Company Name:	
Email To:		Purchase Order No:	41560904	Address:	
Phone:	412-503-4701	Project Name:	ESSO/HOPE JAMES TOWN	Pace Quote Reference:	
Requested Due Date/TAT:	STANDARD	Project Number:	4157-0904.1000	Pace Project Manager:	
				Pace Profile #:	
				REGULATORY AGENCY	
				☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER	
				☐ UST ☐ RCRA ☐ OTHER	
				Site Location	NY
				STATE:	
				Page:	1 of 1
				1348124	

Section D Required Client Information		Matrix Codes MATRIX / CODE		MATRIX CODE (see valid codes to left)		SAMPLE TYPE (G=GRAB C=COMP)		COLLECTED				SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives		Requested Analysis Filtered (Y/N)		Pace Project No./ Lab I.D.	
ITEM #	SAMPLE ID (A-Z, 0-9 / +)	Matrix Codes Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	MATRIX / CODE	DATE	TIME	DATE	TIME	COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Analysis Test ↓	Y/N	Residual Chlorine (Y/N)		
1	PRE-CARB																			001	
2	PRIMARY-BFF																			002	
3	POST-CARB																			003	
4	POST-CARB																				
5	POST-CARB																				
6	POST-CARB																				
7	TB-OI																			004	
8																					
9																					
10																					
11																					
12																					
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS							
COMPOSITE FIVE (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE		MHA/URS		1-27-11		~1145		Real Exch		1-27-11		~1145		Xylreuter / Pace		1-28-11		1145		4.8 Y N Y	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER *Valencia Tuck*

Received
ice (Y/N)

(N/

Samples in
(Y/N)

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

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



Sample Condition Upon Receipt

5ms

Client Name: URS

Project # 3040637

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

Tracking #: 8672 5538 1495

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

Optional
Proj. Due Date:
Proj. Name:

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

Thermometer Used 3 5

Type of Ice: Wet Blue None

☒ Samples on ice, cooling process has begun

Cooler Temperature 4.8

Biological Tissue is Frozen: Yes No

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

Temp should be above freezing to 6°C

Comments:

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

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

[Signature]

Date: 1/28/11

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

August 01, 2011

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

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

Dear Mr. Dowiak:

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

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

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

Sincerely,



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

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Essex-Hope Jamestown

Pace Project No.: 3042302

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

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Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

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Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

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North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

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Tennessee Certification #: TN2867

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REPORT OF LABORATORY ANALYSIS

Page 2 of 13

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SAMPLE ANALYTE COUNT

Project: Essex-Hope Jamestown

Pace Project No.: 3042302

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

REPORT OF LABORATORY ANALYSIS

Page 3 of 13

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ANALYTICAL RESULTS

Project: Essex-Hope Jamestown

Pace Project No.: 3042302

Sample: PRE-CARB		Lab ID: 3042302001	Collected: 02/28/11 10:00	Received: 03/01/11 10:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	824 ug/L		400	40		03/02/11 21:14	67-64-1	
Benzene	7.1 ug/L		1.0	1		03/02/11 20:48	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		03/02/11 20:48	75-27-4	
Bromoform	ND ug/L		5.0	1		03/02/11 20:48	75-25-2	
Bromomethane	ND ug/L		5.0	1		03/02/11 20:48	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		03/02/11 20:48	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		03/02/11 20:48	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		03/02/11 20:48	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		03/02/11 20:48	108-90-7	
Chloroethane	ND ug/L		5.0	1		03/02/11 20:48	75-00-3	
Chloroform	ND ug/L		5.0	1		03/02/11 20:48	67-66-3	
Chloromethane	ND ug/L		5.0	1		03/02/11 20:48	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		03/02/11 20:48	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		03/02/11 20:48	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		03/02/11 20:48	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		03/02/11 20:48	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		03/02/11 20:48	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		03/02/11 20:48	107-06-2	
1,1-Dichloroethene	14.2 ug/L		5.0	1		03/02/11 20:48	75-35-4	
cis-1,2-Dichloroethene	3850 ug/L		200	40		03/02/11 21:14	156-59-2	
trans-1,2-Dichloroethene	48.4 ug/L		5.0	1		03/02/11 20:48	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		03/02/11 20:48	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		03/02/11 20:48	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		03/02/11 20:48	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		03/02/11 20:48	100-41-4	
2-Hexanone	ND ug/L		10.0	1		03/02/11 20:48	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		03/02/11 20:48	98-82-8	
Methylene Chloride	ND ug/L		5.0	1		03/02/11 20:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		03/02/11 20:48	108-10-1	
Styrene	ND ug/L		5.0	1		03/02/11 20:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		03/02/11 20:48	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		03/02/11 20:48	127-18-4	
Toluene	ND ug/L		5.0	1		03/02/11 20:48	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		03/02/11 20:48	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		03/02/11 20:48	79-00-5	
Trichloroethene	956 ug/L		200	40		03/02/11 21:14	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		03/02/11 20:48	75-69-4	
Vinyl chloride	438 ug/L		40.0	40		03/02/11 21:14	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		03/02/11 20:48	179601-23-1	
o-Xylene	ND ug/L		5.0	1		03/02/11 20:48	95-47-6	
4-Bromofluorobenzene (S)	98 %		70-130	1		03/02/11 20:48	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		03/02/11 20:48	17060-07-0	
Toluene-d8 (S)	90 %		70-130	1		03/02/11 20:48	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown

Pace Project No.: 3042302

Sample: PRIMARY EFF		Lab ID: 3042302002	Collected: 02/28/11 10:05	Received: 03/01/11 10:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	58.9	ug/L	10.0	1		03/02/11 21:40	67-64-1	
Benzene	ND	ug/L	1.0	1		03/02/11 21:40	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/02/11 21:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/02/11 21:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/02/11 21:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/02/11 21:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/02/11 21:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/02/11 21:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/02/11 21:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/02/11 21:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/02/11 21:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/02/11 21:40	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/02/11 21:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 21:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 21:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/02/11 21:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/02/11 21:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/02/11 21:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/02/11 21:40	75-35-4	
cis-1,2-Dichloroethene	995	ug/L	50.0	10		03/02/11 22:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/02/11 21:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/02/11 21:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/11 21:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/11 21:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/02/11 21:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/02/11 21:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/02/11 21:40	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		03/02/11 21:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/02/11 21:40	108-10-1	
Styrene	ND	ug/L	5.0	1		03/02/11 21:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/02/11 21:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/02/11 21:40	127-18-4	
Toluene	ND	ug/L	5.0	1		03/02/11 21:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/02/11 21:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/02/11 21:40	79-00-5	
Trichloroethene	55.7	ug/L	5.0	1		03/02/11 21:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/02/11 21:40	75-69-4	
Vinyl chloride	662	ug/L	10.0	10		03/02/11 22:07	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/02/11 21:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		03/02/11 21:40	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/02/11 21:40	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/02/11 21:40	17060-07-0	
Toluene-d8 (S)	89	%	70-130	1		03/02/11 21:40	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown

Pace Project No.: 3042302

Sample: POST CARB		Lab ID: 3042302003	Collected: 02/28/11 10:10	Received: 03/01/11 10:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	24.5 ug/L		10.0	1		03/02/11 22:33	67-64-1	
Benzene	ND ug/L		1.0	1		03/02/11 22:33	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		03/02/11 22:33	75-27-4	
Bromoform	ND ug/L		5.0	1		03/02/11 22:33	75-25-2	
Bromomethane	ND ug/L		5.0	1		03/02/11 22:33	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		03/02/11 22:33	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		03/02/11 22:33	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		03/02/11 22:33	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		03/02/11 22:33	108-90-7	
Chloroethane	ND ug/L		5.0	1		03/02/11 22:33	75-00-3	
Chloroform	ND ug/L		5.0	1		03/02/11 22:33	67-66-3	
Chloromethane	ND ug/L		5.0	1		03/02/11 22:33	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		03/02/11 22:33	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		03/02/11 22:33	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		03/02/11 22:33	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		03/02/11 22:33	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		03/02/11 22:33	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		03/02/11 22:33	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		03/02/11 22:33	75-35-4	
cis-1,2-Dichloroethene	19.2 ug/L		5.0	1		03/02/11 22:33	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		03/02/11 22:33	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		03/02/11 22:33	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		03/02/11 22:33	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		03/02/11 22:33	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		03/02/11 22:33	100-41-4	
2-Hexanone	ND ug/L		10.0	1		03/02/11 22:33	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		03/02/11 22:33	98-82-8	
Methylene Chloride	ND ug/L		5.0	1		03/02/11 22:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		03/02/11 22:33	108-10-1	
Styrene	ND ug/L		5.0	1		03/02/11 22:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		03/02/11 22:33	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		03/02/11 22:33	127-18-4	
Toluene	ND ug/L		5.0	1		03/02/11 22:33	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		03/02/11 22:33	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		03/02/11 22:33	79-00-5	
Trichloroethene	ND ug/L		5.0	1		03/02/11 22:33	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		03/02/11 22:33	75-69-4	
Vinyl chloride	7.4 ug/L		1.0	1		03/02/11 22:33	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		03/02/11 22:33	179601-23-1	
o-Xylene	ND ug/L		5.0	1		03/02/11 22:33	95-47-6	
4-Bromofluorobenzene (S)	101 %		70-130	1		03/02/11 22:33	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-130	1		03/02/11 22:33	17060-07-0	
Toluene-d8 (S)	91 %		70-130	1		03/02/11 22:33	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown

Pace Project No.: 3042302

Sample: TB-01		Lab ID: 3042302004	Collected: 02/28/11 00:01	Received: 03/01/11 10:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		10.0	1		03/02/11 22:59	67-64-1	
Benzene	ND ug/L		1.0	1		03/02/11 22:59	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		03/02/11 22:59	75-27-4	
Bromoform	ND ug/L		5.0	1		03/02/11 22:59	75-25-2	
Bromomethane	ND ug/L		5.0	1		03/02/11 22:59	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		03/02/11 22:59	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		03/02/11 22:59	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		03/02/11 22:59	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		03/02/11 22:59	108-90-7	
Chloroethane	ND ug/L		5.0	1		03/02/11 22:59	75-00-3	
Chloroform	ND ug/L		5.0	1		03/02/11 22:59	67-66-3	
Chloromethane	ND ug/L		5.0	1		03/02/11 22:59	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		03/02/11 22:59	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		03/02/11 22:59	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		03/02/11 22:59	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		03/02/11 22:59	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		03/02/11 22:59	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		03/02/11 22:59	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		03/02/11 22:59	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		03/02/11 22:59	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		03/02/11 22:59	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		03/02/11 22:59	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		03/02/11 22:59	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		03/02/11 22:59	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		03/02/11 22:59	100-41-4	
2-Hexanone	ND ug/L		10.0	1		03/02/11 22:59	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		03/02/11 22:59	98-82-8	
Methylene Chloride	ND ug/L		5.0	1		03/02/11 22:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		03/02/11 22:59	108-10-1	
Styrene	ND ug/L		5.0	1		03/02/11 22:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		03/02/11 22:59	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		03/02/11 22:59	127-18-4	
Toluene	ND ug/L		5.0	1		03/02/11 22:59	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		03/02/11 22:59	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		03/02/11 22:59	79-00-5	
Trichloroethene	ND ug/L		5.0	1		03/02/11 22:59	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		03/02/11 22:59	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		03/02/11 22:59	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		03/02/11 22:59	179601-23-1	
o-Xylene	ND ug/L		5.0	1		03/02/11 22:59	95-47-6	
4-Bromofluorobenzene (S)	99 %		70-130	1		03/02/11 22:59	460-00-4	
1,2-Dichloroethane-d4 (S)	95 %		70-130	1		03/02/11 22:59	17060-07-0	
Toluene-d8 (S)	91 %		70-130	1		03/02/11 22:59	2037-26-5	

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown

Pace Project No.: 3042302

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

METHOD BLANK: 272471 Matrix: Water

Associated Lab Samples: 3042302001, 3042302002, 3042302003, 3042302004

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

Date: 08/01/2011 05:21 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 13

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QUALITY CONTROL DATA

Project: Essex-Hope Jamestown

Pace Project No.: 3042302

LABORATORY CONTROL SAMPLE: 272472

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

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown

Pace Project No.: 3042302

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3042145006 3042145007											
Parameter	Units	3042145004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Trichloroethene	ug/L	ND	20	20	15.2	18.5	76	92	70-130	20	
1,2-Dichloroethane-d4 (S)	%						104	103	70-130		
4-Bromofluorobenzene (S)	%						100	99	70-130		
Toluene-d8 (S)	%						90	88	70-130		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 272473 272474											
Parameter	Units	3042145004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.2	24.1	96	120	70-130	22	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.1	18.5	80	93	70-130	14	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.5	18.4	83	92	70-130	11	
1,1-Dichloroethane	ug/L	ND	20	20	18.0	22.3	90	111	70-130	21	
1,1-Dichloroethene	ug/L	ND	20	20	16.7	21.1	84	105	70-130	23	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.4	19.5	77	98	70-130	23	
1,2-Dichloroethane	ug/L	ND	20	20	18.1	21.4	91	107	70-130	16	
1,2-Dichloropropane	ug/L	ND	20	20	15.3	18.6	77	93	70-130	19	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.2	19.5	76	97	70-130	24	
1,4-Dichlorobenzene	ug/L	ND	20	20	15.5	20.2	77	101	70-130	26	
2-Butanone (MEK)	ug/L	ND	20	20	15.6	18.8	78	94	70-130	19	
2-Hexanone	ug/L	ND	20	20	16.9	16.9	85	84	70-130	.3	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	15.9	16.6	80	83	70-130	4	
Acetone	ug/L	ND	20	20	12.1	12.3	61	61	70-130	1	M0
Benzene	ug/L	ND	20	20	15.5	18.6	77	93	70-130	19	
Bromodichloromethane	ug/L	ND	20	20	14.7	16.9	74	85	70-130	14	
Bromoform	ug/L	ND	20	20	14.4	16.2	72	81	70-130	12	
Bromomethane	ug/L	ND	20	20	28.4	33.3	142	166	70-130	16	M0
Carbon disulfide	ug/L	ND	20	20	20.5	12.5	102	63	70-130	48	M0,R1
Carbon tetrachloride	ug/L	ND	20	20	18.1	23.1	90	116	70-130	25	
Chlorobenzene	ug/L	ND	20	20	15.2	18.7	76	93	70-130	20	
Chloroethane	ug/L	ND	20	20	19.3	20.6	97	103	70-130	6	
Chloroform	ug/L	ND	20	20	18.3	22.1	92	111	70-130	19	
Chloromethane	ug/L	ND	20	20	17.8	18.8	89	94	70-130	6	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.3	22.4	91	112	70-130	20	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.7	18.4	79	92	70-130	16	
Dibromochloromethane	ug/L	ND	20	20	14.2	16.3	71	82	70-130	14	
Ethylbenzene	ug/L	ND	20	20	15.8	19.5	79	98	70-130	21	
m&p-Xylene	ug/L	ND	40	40	32.6	39.7	82	99	70-130	20	
Methylene Chloride	ug/L	ND	20	20	16.3	20.1	82	100	70-130	21	
o-Xylene	ug/L	ND	20	20	15.4	19.1	77	96	70-130	22	
Styrene	ug/L	ND	20	20	15.6	18.8	78	94	70-130	18	
Tetrachloroethene	ug/L	ND	20	20	16.3	20.2	78	97	70-130	21	
Toluene	ug/L	ND	20	20	15.5	18.6	77	93	70-130	18	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.2	21.5	86	107	70-130	22	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.1	18.0	80	90	70-130	11	
Trichloroethene	ug/L	ND	20	20	15.2	18.5	76	92	70-130	20	

Date: 08/01/2011 05:21 PM

REPORT OF LABORATORY ANALYSIS

Page 10 of 13

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QUALITY CONTROL DATA

Project: Essex-Hope Jamestown

Pace Project No.: 3042302

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 272473 272474											
Parameter	Units	3042145004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Trichlorofluoromethane	ug/L	ND	20	20	25.4	26.5	127	133	70-130	4	M0
Vinyl chloride	ug/L	ND	20	20	21.5	22.9	108	114	70-130	6	
1,2-Dichloroethane-d4 (S)	%						104	103	70-130		
4-Bromofluorobenzene (S)	%						100	99	70-130		
Toluene-d8 (S)	%						90	88	70-130		

QUALIFIERS

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

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope Jamestown

Pace Project No.: 3042302

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: URS CORP Address: 501 HOLIDAY DR PO BOX 4700 PITTSBURGH, PA 15200 Email To: URS CORP		Section B Required Project Information: Report To: URS CORP Copy To: V ALBIE SIBERO Purchase Order No.: 41568904 Project Name: ESSEX/HORE JANE STATION Project Number: 41568904.10000		Section C Invoice Information: Attention: V ALBIE SIBERO Company Name: V ALBIE SIBERO Address: V ALBIE SIBERO Pace Order Reference: 41568904 Pace Project Manager: ESSEX/HORE JANE STATION Pace Profile #: 41568904.10000		Regulatory Agency: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER Site Location: NY STATE: NY		Page: 1 of 1 1345309	
Section D Required Client Information Matrix Codes Drinking Water DW Water WW Waste Water P Product SL Soil/Solid OL Oil WP Wipe AR Air TS Tissue OT Other SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		Matrix Code (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP) DATE TIME COLLECTED COMPOSITE START COMPOSITE END/GRAB SAMPLE TEMP AT COLLECTION # OF CONTAINERS Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other Analysis Test Y/N		Requested Analysis Filtered (Y/N) Residual Chlorine (Y/N) Pace Project No. / Lab I.D. 001 002 003 004		Temp in °C Received on Custody Sealed Cooler Samples Intact			
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 CONDITIONS		228.11.1210 228.11.1210 228.11.1210 228.11.1210 228.11.1210 228.11.1210 228.11.1210		228.11.1210 228.11.1210 228.11.1210 228.11.1210 228.11.1210 228.11.1210 228.11.1210			

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

Sample Condition Upon Receipt

Pace Analytical

Client Name:

URS Corp

Project #

3042302

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

Tracking #: 867255381017

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

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

Thermometer Used 3 (5)

Type of Ice: Wet Blue None

☒ Samples on ice, cooling process has begun

Cooler Temperature 3-8

Biological Tissue is Frozen: Yes No

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

Temp should be above freezing to 6°C

Comments:

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

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review:

Date:

3/1/11

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

August 01, 2011

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

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

Dear Mr. Dowiak:

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

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

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

Sincerely,



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

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3044191

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

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SAMPLE ANALYTE COUNT

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3044191

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

REPORT OF LABORATORY ANALYSIS

Page 3 of 11

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ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3044191

Sample: PRE-CARB		Lab ID: 3044191001	Collected: 03/31/11 11:20	Received: 04/01/11 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	318	ug/L	10.0	1		04/08/11 20:55	67-64-1	
Benzene	6.9	ug/L	1.0	1		04/08/11 20:55	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/11 20:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/11 20:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/11 20:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/08/11 20:55	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/11 20:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/11 20:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/11 20:55	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/11 20:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/11 20:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/11 20:55	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/11 20:55	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 20:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 20:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/11 20:55	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/11 20:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/11 20:55	107-06-2	
1,1-Dichloroethene	15.3	ug/L	5.0	1		04/08/11 20:55	75-35-4	
cis-1,2-Dichloroethene	3440	ug/L	500	100		04/12/11 19:35	156-59-2	
trans-1,2-Dichloroethene	92.4	ug/L	5.0	1		04/08/11 20:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/11 20:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 20:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/11 20:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/11 20:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/11 20:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/08/11 20:55	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/08/11 20:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/11 20:55	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/11 20:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/11 20:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/11 20:55	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/11 20:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/11 20:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/11 20:55	79-00-5	
Trichloroethene	1200	ug/L	500	100		04/12/11 19:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/11 20:55	75-69-4	
Vinyl chloride	569	ug/L	100	100		04/12/11 19:35	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/11 20:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/08/11 20:55	95-47-6	
4-Bromofluorobenzene (S)	91	%	70-130	1		04/08/11 20:55	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		04/08/11 20:55	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		04/08/11 20:55	2037-26-5	

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3044191

Sample: PRIMARY-EFF		Lab ID: 3044191002		Collected: 03/31/11 11:25		Received: 04/01/11 10:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1			04/08/11 21:22	67-64-1	
Benzene	ND	ug/L	1.0	1			04/08/11 21:22	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			04/08/11 21:22	75-27-4	
Bromoform	ND	ug/L	5.0	1			04/08/11 21:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1			04/08/11 21:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			04/08/11 21:22	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			04/08/11 21:22	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			04/08/11 21:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			04/08/11 21:22	108-90-7	
Chloroethane	ND	ug/L	5.0	1			04/08/11 21:22	75-00-3	
Chloroform	ND	ug/L	5.0	1			04/08/11 21:22	67-66-3	
Chloromethane	ND	ug/L	5.0	1			04/08/11 21:22	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			04/08/11 21:22	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			04/08/11 21:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			04/08/11 21:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			04/08/11 21:22	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			04/08/11 21:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			04/08/11 21:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1			04/08/11 21:22	75-35-4	
cis-1,2-Dichloroethene	1050	ug/L	250	50			04/11/11 14:02	156-59-2	
trans-1,2-Dichloroethene	8.5	ug/L	5.0	1			04/08/11 21:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			04/08/11 21:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			04/08/11 21:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			04/08/11 21:22	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			04/08/11 21:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			04/08/11 21:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1			04/08/11 21:22	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1			04/08/11 21:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			04/08/11 21:22	108-10-1	
Styrene	ND	ug/L	5.0	1			04/08/11 21:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			04/08/11 21:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			04/08/11 21:22	127-18-4	
Toluene	ND	ug/L	5.0	1			04/08/11 21:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			04/08/11 21:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			04/08/11 21:22	79-00-5	
Trichloroethene	44.2	ug/L	5.0	1			04/08/11 21:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			04/08/11 21:22	75-69-4	
Vinyl chloride	663	ug/L	50.0	50			04/11/11 14:02	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			04/08/11 21:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			04/08/11 21:22	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130	1			04/08/11 21:22	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1			04/08/11 21:22	17060-07-0	
Toluene-d8 (S)	90	%	70-130	1			04/08/11 21:22	2037-26-5	

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3044191

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

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

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

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3044191

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

METHOD BLANK: 285805 Matrix: Water

Associated Lab Samples: 3044191001, 3044191002, 3044191003

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

Date: 08/01/2011 05:28 PM

REPORT OF LABORATORY ANALYSIS

Page 7 of 11

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QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3044191

LABORATORY CONTROL SAMPLE: 285806

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

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3044191

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 285807 285808											
Parameter	Units	3044057001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	18.5	15.5	92	78	70-130	17	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.5	16.7	92	83	70-130	10	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.5	16.7	93	83	70-130	10	
1,1-Dichloroethane	ug/L	ND	20	20	17.1	14.9	86	75	70-130	14	
1,1-Dichloroethene	ug/L	ND	20	20	15.5	13.2	78	66	70-130	16	M0
1,2-Dichlorobenzene	ug/L	ND	20	20	17.6	15.2	88	76	70-130	14	
1,2-Dichloroethane	ug/L	ND	20	20	18.1	16.2	91	81	70-130	12	
1,2-Dichloropropane	ug/L	ND	20	20	16.4	14.5	82	73	70-130	12	
1,3-Dichlorobenzene	ug/L	ND	20	20	16.9	14.5	84	73	70-130	15	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.6	15.1	88	75	70-130	15	
2-Butanone (MEK)	ug/L	ND	20	20	18.2	17.5	91	88	70-130	4	
2-Hexanone	ug/L	ND	20	20	16.1	16.6	80	83	70-130	3	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	15.2	14.6	76	73	70-130	4	
Acetone	ug/L	ND	20	20	17.9	20.7	89	103	70-130	15	
Benzene	ug/L	ND	20	20	16.7	14.3	83	72	70-130	15	
Bromodichloromethane	ug/L	ND	20	20	14.2	12.9	71	65	70-130	10	M0
Bromoform	ug/L	ND	20	20	13.7	12.9	69	65	70-130	6	M0
Bromomethane	ug/L	ND	20	20	21.0	25.3	105	127	70-130	19	
Carbon disulfide	ug/L	ND	20	20	18.4	15.9	92	80	70-130	15	
Carbon tetrachloride	ug/L	ND	20	20	15.0	13.0	75	65	70-130	14	M0
Chlorobenzene	ug/L	ND	20	20	16.7	14.7	83	74	70-130	12	
Chloroethane	ug/L	ND	20	20	21.3	21.4	106	107	70-130	.7	
Chloroform	ug/L	ND	20	20	18.4	15.9	92	80	70-130	14	
Chloromethane	ug/L	ND	20	20	17.9	17.9	90	90	70-130	.04	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.5	15.4	85	74	70-130	13	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.2	13.3	76	66	70-130	13	M0
Dibromochloromethane	ug/L	ND	20	20	15.4	14.6	77	73	70-130	6	
Ethylbenzene	ug/L	ND	20	20	16.6	14.2	83	71	70-130	16	
m&p-Xylene	ug/L	ND	40	40	35.2	28.9	88	72	70-130	20	
Methylene Chloride	ug/L	ND	20	20	16.8	15.4	84	77	70-130	9	
o-Xylene	ug/L	ND	20	20	16.6	14.9	83	74	70-130	11	
Styrene	ug/L	ND	20	20	16.2	13.8	81	69	70-130	16	M0
Tetrachloroethene	ug/L	ND	20	20	16.1	14.2	81	71	70-130	12	
Toluene	ug/L	ND	20	20	16.6	14.2	83	71	70-130	16	
trans-1,2-Dichloroethene	ug/L	ND	20	20	16.0	14.2	80	71	70-130	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	14.7	13.0	73	65	70-130	12	M0
Trichloroethene	ug/L	ND	20	20	15.9	13.4	80	67	70-130	17	M0
Trichlorofluoromethane	ug/L	ND	20	20	28.8	26.9	144	134	70-130	7	M0
Vinyl chloride	ug/L	ND	20	20	20.8	20.2	104	101	70-130	3	
1,2-Dichloroethane-d4 (S)	%						96	95	70-130		
4-Bromofluorobenzene (S)	%						94	94	70-130		
Toluene-d8 (S)	%						87	87	70-130		

QUALIFIERS

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3044191

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3044191

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: URS CORP Address: 501 HOUNDRY DR. FOSTER PLAZA 4, 5TH FLOOR PITTSBURGH, PA, 15220 Email To:		Section B Required Project Information: Report To: MARK DOMAY Copy To: VALERIE SIBERT Purchase Order No.: 41569904 Project Name: ESSEX/HAPE JAMESTOWN Project Number: 41569904.10000 Requested Due Date/TAT: STANDARD		Section C Invoice Information: Attention: Company Name: Address: Phone Order Reference: Pace Project Manager: Pace Profile #:		Page: 1 of 1 1344485 REGULATORY AGENCY ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER Site Location: NY STATE:	
--	--	---	--	---	--	---	--

ITEM #	Matrix Codes MATRIX / CODE Drinking Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	MATRIX CODE	# OF CONTAINERS	PRESERVATIVES							Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB				DATE	TIME	DATE	TIME	DATE	TIME	DATE				
1		PRE-CARB			WTG	WTG	3										001	
2		PRIMRY-EFF					3										002	
3		POST-CARB					3										003	
4		POST-CARB					3										004	
5		POST-CARB					3										005	
6		POST-CARB					3										006	
7																	007	
8																	008	
9																	009	
10																	010	
11																	011	
12																	012	
ADDITIONAL COMMENTS: COMPOSITE FIVE (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE																		
RELINQUISHED BY / AFFILIATION: Valerie Sibert/URS DATE: 3.31.11 TIME: 1330																		
ACCEPTED BY / AFFILIATION: Valerie Sibert/URS DATE: 3.31.11 TIME: 1330																		
SAMPLE CONDITIONS: Y w Y																		

Temp in °C Received on Custody Sealed Cooler Samples Intact (Y/N)		Temp in °C Received on Custody Sealed Cooler Samples Intact (Y/N)	
5.8 4/11/11 Y w Y		5.8 4/11/11 Y w Y	

Sample Condition Upon Receipt

RES

Pace Analytical

Client Name: CRS

Project # 3044191

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

Tracking #: 867255381040

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

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

Thermometer Used (3) 5

Type of Ice: ☒ Wet ☐ Blue ☐ None

☒ Samples on ice, cooling process has begun

Cooler Temperature 5-8

Biological Tissue is Frozen: Yes No

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

Temp should be above freezing to 6°C

Comments:

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

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 4-1-11

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

August 01, 2011

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

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

Dear Mr. Dowiak:

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

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

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

Sincerely,



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

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Essex-Hope 41568904.10000

Pace Project No.: 3045899

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 12

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SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568904.10000

Pace Project No.: 3045899

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

REPORT OF LABORATORY ANALYSIS

Page 3 of 12

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ANALYTICAL RESULTS

Project: Essex-Hope 41568904.10000

Pace Project No.: 3045899

Sample: PRE-CARB		Lab ID: 3045899001	Collected: 04/29/11 10:30	Received: 04/30/11 11:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	10.0	1		05/04/11 20:51	67-64-1	
Benzene	ND	ug/L	1.0	1		05/04/11 20:51	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/04/11 20:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/04/11 20:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/04/11 20:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/04/11 20:51	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/04/11 20:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/04/11 20:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/04/11 20:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/04/11 20:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/04/11 20:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/04/11 20:51	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/04/11 20:51	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 20:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 20:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 20:51	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/04/11 20:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/04/11 20:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/04/11 20:51	75-35-4	
cis-1,2-Dichloroethene	118	ug/L	5.0	1		05/04/11 20:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/04/11 20:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/04/11 20:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 20:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 20:51	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/04/11 20:51	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/04/11 20:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/04/11 20:51	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/04/11 20:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/04/11 20:51	108-10-1	
Styrene	ND	ug/L	5.0	1		05/04/11 20:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/04/11 20:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/04/11 20:51	127-18-4	
Toluene	ND	ug/L	5.0	1		05/04/11 20:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/04/11 20:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/04/11 20:51	79-00-5	
Trichloroethene	95.2	ug/L	5.0	1		05/04/11 20:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/04/11 20:51	75-69-4	
Vinyl chloride	6.4	ug/L	1.0	1		05/04/11 20:51	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/04/11 20:51	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/04/11 20:51	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		05/04/11 20:51	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/04/11 20:51	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		05/04/11 20:51	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope 41568904.10000

Pace Project No.: 3045899

Sample: PRIMARY-EFF		Lab ID: 3045899002	Collected: 04/29/11 10:35	Received: 04/30/11 11:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	92.2	ug/L	10.0	1		05/04/11 21:44	67-64-1	
Benzene	ND	ug/L	1.0	1		05/04/11 21:44	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/04/11 21:44	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/04/11 21:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/04/11 21:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/04/11 21:44	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/04/11 21:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/04/11 21:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/04/11 21:44	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/04/11 21:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/04/11 21:44	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/04/11 21:44	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/04/11 21:44	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 21:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 21:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 21:44	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/04/11 21:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/04/11 21:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/04/11 21:44	75-35-4	
cis-1,2-Dichloroethene	1390	ug/L	50.0	10		05/04/11 22:10	156-59-2	
trans-1,2-Dichloroethene	10	ug/L	5.0	1		05/04/11 21:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/04/11 21:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 21:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 21:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/04/11 21:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/04/11 21:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/04/11 21:44	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/04/11 21:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/04/11 21:44	108-10-1	
Styrene	ND	ug/L	5.0	1		05/04/11 21:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/04/11 21:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/04/11 21:44	127-18-4	
Toluene	ND	ug/L	5.0	1		05/04/11 21:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/04/11 21:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/04/11 21:44	79-00-5	
Trichloroethene	22.4	ug/L	5.0	1		05/04/11 21:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/04/11 21:44	75-69-4	
Vinyl chloride	564	ug/L	10.0	10		05/04/11 22:10	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/04/11 21:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/04/11 21:44	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		05/04/11 21:44	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		05/04/11 21:44	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		05/04/11 21:44	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope 41568904.10000

Pace Project No.: 3045899

Sample: POST-CARB		Lab ID: 3045899003	Collected: 04/29/11 10:40	Received: 04/30/11 11:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	35.2	ug/L	10.0	1		05/04/11 22:36	67-64-1	
Benzene	ND	ug/L	1.0	1		05/04/11 22:36	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/04/11 22:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/04/11 22:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/04/11 22:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/04/11 22:36	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/04/11 22:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/04/11 22:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/04/11 22:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/04/11 22:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/04/11 22:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/04/11 22:36	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/04/11 22:36	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 22:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 22:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/04/11 22:36	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/04/11 22:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/04/11 22:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/04/11 22:36	75-35-4	
cis-1,2-Dichloroethene	17.9	ug/L	5.0	1		05/04/11 22:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/04/11 22:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/04/11 22:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 22:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/04/11 22:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/04/11 22:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/04/11 22:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/04/11 22:36	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/04/11 22:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/04/11 22:36	108-10-1	
Styrene	ND	ug/L	5.0	1		05/04/11 22:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/04/11 22:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/04/11 22:36	127-18-4	
Toluene	ND	ug/L	5.0	1		05/04/11 22:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/04/11 22:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/04/11 22:36	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/04/11 22:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/04/11 22:36	75-69-4	
Vinyl chloride	317	ug/L	1.0	1		05/04/11 22:36	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/04/11 22:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/04/11 22:36	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		05/04/11 22:36	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130	1		05/04/11 22:36	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		05/04/11 22:36	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope 41568904.10000

Pace Project No.: 3045899

Sample: TB-01		Lab ID: 3045899004		Collected: 04/29/11 00:01		Received: 04/30/11 11:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND ug/L	10.0	1			05/04/11 23:02	67-64-1		
Benzene	ND ug/L	1.0	1			05/04/11 23:02	71-43-2		
Bromodichloromethane	ND ug/L	5.0	1			05/04/11 23:02	75-27-4		
Bromoform	ND ug/L	5.0	1			05/04/11 23:02	75-25-2		
Bromomethane	ND ug/L	5.0	1			05/04/11 23:02	74-83-9		
2-Butanone (MEK)	ND ug/L	10.0	1			05/04/11 23:02	78-93-3		
Carbon disulfide	ND ug/L	5.0	1			05/04/11 23:02	75-15-0		
Carbon tetrachloride	ND ug/L	5.0	1			05/04/11 23:02	56-23-5		
Chlorobenzene	ND ug/L	5.0	1			05/04/11 23:02	108-90-7		
Chloroethane	ND ug/L	5.0	1			05/04/11 23:02	75-00-3		
Chloroform	ND ug/L	5.0	1			05/04/11 23:02	67-66-3		
Chloromethane	ND ug/L	5.0	1			05/04/11 23:02	74-87-3		
Dibromochloromethane	ND ug/L	5.0	1			05/04/11 23:02	124-48-1		
1,2-Dichlorobenzene	ND ug/L	5.0	1			05/04/11 23:02	95-50-1		
1,3-Dichlorobenzene	ND ug/L	5.0	1			05/04/11 23:02	541-73-1		
1,4-Dichlorobenzene	ND ug/L	5.0	1			05/04/11 23:02	106-46-7		
1,1-Dichloroethane	ND ug/L	5.0	1			05/04/11 23:02	75-34-3		
1,2-Dichloroethane	ND ug/L	5.0	1			05/04/11 23:02	107-06-2		
1,1-Dichloroethene	ND ug/L	5.0	1			05/04/11 23:02	75-35-4		
cis-1,2-Dichloroethene	ND ug/L	5.0	1			05/04/11 23:02	156-59-2		
trans-1,2-Dichloroethene	ND ug/L	5.0	1			05/04/11 23:02	156-60-5		
1,2-Dichloropropane	ND ug/L	5.0	1			05/04/11 23:02	78-87-5		
cis-1,3-Dichloropropene	ND ug/L	5.0	1			05/04/11 23:02	10061-01-5		
trans-1,3-Dichloropropene	ND ug/L	5.0	1			05/04/11 23:02	10061-02-6		
Ethylbenzene	ND ug/L	5.0	1			05/04/11 23:02	100-41-4		
2-Hexanone	ND ug/L	10.0	1			05/04/11 23:02	591-78-6		
Isopropylbenzene (Cumene)	ND ug/L	1.0	1			05/04/11 23:02	98-82-8		
Methylene Chloride	ND ug/L	5.0	1			05/04/11 23:02	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND ug/L	10.0	1			05/04/11 23:02	108-10-1		
Styrene	ND ug/L	5.0	1			05/04/11 23:02	100-42-5		
1,1,2,2-Tetrachloroethane	ND ug/L	5.0	1			05/04/11 23:02	79-34-5		
Tetrachloroethene	ND ug/L	5.0	1			05/04/11 23:02	127-18-4		
Toluene	ND ug/L	5.0	1			05/04/11 23:02	108-88-3		
1,1,1-Trichloroethane	ND ug/L	5.0	1			05/04/11 23:02	71-55-6		
1,1,2-Trichloroethane	ND ug/L	5.0	1			05/04/11 23:02	79-00-5		
Trichloroethene	ND ug/L	5.0	1			05/04/11 23:02	79-01-6		
Trichlorofluoromethane	ND ug/L	5.0	1			05/04/11 23:02	75-69-4		
Vinyl chloride	ND ug/L	1.0	1			05/04/11 23:02	75-01-4		
m&p-Xylene	ND ug/L	5.0	1			05/04/11 23:02	179601-23-1		
o-Xylene	ND ug/L	5.0	1			05/04/11 23:02	95-47-6		
4-Bromofluorobenzene (S)	101 %	70-130	1			05/04/11 23:02	460-00-4		
1,2-Dichloroethane-d4 (S)	112 %	70-130	1			05/04/11 23:02	17060-07-0		
Toluene-d8 (S)	102 %	70-130	1			05/04/11 23:02	2037-26-5		

QUALITY CONTROL DATA

Project: Essex-Hope 41568904.10000

Pace Project No.: 3045899

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

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

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

Date: 08/01/2011 05:30 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 12

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QUALITY CONTROL DATA

Project: Essex-Hope 41568904.10000

Pace Project No.: 3045899

LABORATORY CONTROL SAMPLE: 294544

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

QUALITY CONTROL DATA

Project: Essex-Hope 41568904.10000

Pace Project No.: 3045899

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 294545 294546											
Parameter	Units	3045965001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	150	18.3	751	92	70-130	156	M0,R1
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.4	22.3	102	112	70-130	9	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.6	20.4	88	102	70-130	15	
1,1-Dichloroethane	ug/L	ND	20	20	34.2	20.0	171	100	70-130	52	M0,R1
1,1-Dichloroethene	ug/L	ND	20	20	21.3	18.4	107	92	70-130	15	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.8	19.6	89	98	70-130	10	
1,2-Dichloroethane	ug/L	ND	20	20	16.8	18.1	84	90	70-130	7	
1,2-Dichloropropane	ug/L	ND	20	20	18.5	20.4	92	102	70-130	10	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.4	19.9	92	100	70-130	8	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.6	19.7	93	98	70-130	5	
2-Butanone (MEK)	ug/L	ND	20	20	17.3	17.9	86	89	70-130	4	
2-Hexanone	ug/L	ND	20	20	17.3	19.8	86	99	70-130	13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.5	19.4	88	97	70-130	10	
Acetone	ug/L	ND	20	20	20.9	23.1	104	115	70-130	10	
Benzene	ug/L	ND	20	20	19.0	21.2	95	106	70-130	11	
Bromodichloromethane	ug/L	ND	20	20	17.0	18.7	85	94	70-130	10	
Bromoform	ug/L	ND	20	20	13.1	15.0	66	75	70-130	13	M0
Bromomethane	ug/L	ND	20	20	16.6	21.3	83	107	70-130	25	
Carbon disulfide	ug/L	ND	20	20	13.8	14.0	69	70	70-130	2	M0
Carbon tetrachloride	ug/L	ND	20	20	15.5	17.2	77	86	70-130	11	
Chlorobenzene	ug/L	ND	20	20	17.7	19.4	88	97	70-130	9	
Chloroethane	ug/L	ND	20	20	21.8	19.1	109	96	70-130	13	
Chloroform	ug/L	ND	20	20	17.9	18.8	89	94	70-130	5	
Chloromethane	ug/L	ND	20	20	15.8	16.3	79	82	70-130	3	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.8	20.2	99	101	70-130	2	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.8	20.1	89	100	70-130	12	
Dibromochloromethane	ug/L	ND	20	20	15.4	17.2	77	86	70-130	11	
Ethylbenzene	ug/L	ND	20	20	17.6	19.5	88	97	70-130	10	
m&p-Xylene	ug/L	ND	40	40	35.5	39.5	89	99	70-130	11	
Methylene Chloride	ug/L	ND	20	20	16.1	17.4	80	87	70-130	8	
o-Xylene	ug/L	ND	20	20	17.6	19.2	88	96	70-130	9	
Styrene	ug/L	ND	20	20	17.0	19.0	85	95	70-130	11	
Tetrachloroethene	ug/L	ND	20	20	17.4	19.6	87	98	70-130	12	
Toluene	ug/L	ND	20	20	17.9	20.0	89	100	70-130	11	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.0	19.4	90	97	70-130	8	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.8	18.9	84	94	70-130	12	
Trichloroethene	ug/L	ND	20	20	21.4	19.2	107	96	70-130	11	
Trichlorofluoromethane	ug/L	ND	20	20	18.1	17.4	90	87	70-130	4	
Vinyl chloride	ug/L	ND	20	20	19.4	19.9	97	99	70-130	3	
1,2-Dichloroethane-d4 (S)	%						107	106	70-130		
4-Bromofluorobenzene (S)	%						101	100	70-130		
Toluene-d8 (S)	%						103	105	70-130		

QUALIFIERS

Project: Essex-Hope 41568904.10000

Pace Project No.: 3045899

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

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

R1 RPD value was outside control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568904.10000

Pace Project No.: 3045899

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

CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A Required Client Information: Company: URS CORP Address: 501 HOLIDAY DR. FOSTER PLAZA 4 PITTSBURGH, PA 15201 Email To: URS Phone: 412-503-4700 Fax: 412-503-4701 Requested Date/Time/TAT: STANDARD		Section B Required Project Information: Report To: MARK DOWIAK Copy To: VALERIE SIBETO Purchase Order No.: 41568904 Project Name: ESSEX/HOPE JAMESTOWN Project Number: 41568904, 10000		Section C Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager: Pace Profile #:	
Regulatory Agency: NY ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER		Site Location: NY STATE:		Page: 1 of 1 1296844	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE ID (A-Z, 0-9 / -)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	DATE	TIME	DATE	TIME	DATE					
1	PRE-CARB	DW	WT	WTG	4/29/11	1030													001	
2	PRIMARY-EFF	WW	WT		4/29/11	1035													002	
3	POST-CARB	Product	P		4/29/11	1040													003	
4	POST-CARB	Soil/Solid	SL		4/29/11	1110														
5	POST-CARB	Oil	OL		4/29/11	1140														
6	POST-CARB	Wipe	WP		4/29/11	1210														
7	TPB-01	Air	AR		4/29/11															
8		Tissue	TS																	
9		Other	OT																	
10																				
11																				
12																				
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS						
COMPOSITE FOUR (4)		Valerie Sibeto/URS		4/29/11		1235		Zoe Exair		4/29/11		1235								
POST-CARB SAMPLES IN LAB AND REPORT AS		Valerie Sibeto/URS		4/29/11		1100		Sylvester Pace		4/30/11		1100		Y		N				
POST-CARB COMPOSITE																				

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS

Project # 3045899

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

Tracking #: 81072 5538 1061

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

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

Thermometer Used 3 5

Type of Ice: Wet Blue None

☒ Samples on ice, cooling process has begun

Cooler Temperature 2.9

Biological Tissue is Frozen: Yes No

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

Temp should be above freezing to 6°C

Comments:

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

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 5-2-11

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

August 01, 2011

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

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

Dear Mr. Dowiak:

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

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

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

Sincerely,



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

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Essex-Hope

Pace Project No.: 3046913

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 12

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SAMPLE ANALYTE COUNT

Project: Essex-Hope

Pace Project No.: 3046913

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3046913001	PRE-CARB	EPA 8260	MAK	43	PASI-PA
3046913002	PRIMARY-EFF	EPA 8260	MAK	43	PASI-PA
3046913003	POST-CARB	EPA 8260	MAK	43	PASI-PA
3046913004	TB-01	EPA 8260	MAK	43	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 12

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ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3046913

Sample: PRE-CARB		Lab ID: 3046913001	Collected: 05/18/11 11:00	Received: 05/19/11 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	10.0	1		05/24/11 19:08	67-64-1	
Benzene	5.0	ug/L	1.0	1		05/24/11 19:08	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/24/11 19:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/24/11 19:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/24/11 19:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/24/11 19:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/24/11 19:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/24/11 19:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/24/11 19:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/24/11 19:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/24/11 19:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/24/11 19:08	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/24/11 19:08	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 19:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 19:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 19:08	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/24/11 19:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/24/11 19:08	107-06-2	
1,1-Dichloroethene	10.4	ug/L	5.0	1		05/24/11 19:08	75-35-4	
cis-1,2-Dichloroethene	2940	ug/L	100	20		05/24/11 19:32	156-59-2	
trans-1,2-Dichloroethene	23.5	ug/L	5.0	1		05/24/11 19:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/24/11 19:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/24/11 19:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/24/11 19:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/24/11 19:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/24/11 19:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/24/11 19:08	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/24/11 19:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/24/11 19:08	108-10-1	
Styrene	ND	ug/L	5.0	1		05/24/11 19:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/24/11 19:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/24/11 19:08	127-18-4	
Toluene	ND	ug/L	5.0	1		05/24/11 19:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/24/11 19:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/24/11 19:08	79-00-5	
Trichloroethene	1110	ug/L	100	20		05/24/11 19:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/24/11 19:08	75-69-4	
Vinyl chloride	484	ug/L	20.0	20		05/24/11 19:32	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/24/11 19:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/24/11 19:08	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		05/24/11 19:08	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130	1		05/24/11 19:08	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		05/24/11 19:08	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3046913

Sample: PRIMARY-EFF		Lab ID: 3046913002		Collected: 05/18/11 11:05		Received: 05/19/11 10:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Acetone	2740	ug/L	200	20			05/24/11 20:21	67-64-1	
Benzene	ND	ug/L	1.0	1			05/24/11 19:57	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			05/24/11 19:57	75-27-4	
Bromoform	ND	ug/L	5.0	1			05/24/11 19:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1			05/24/11 19:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			05/24/11 19:57	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			05/24/11 19:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			05/24/11 19:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			05/24/11 19:57	108-90-7	
Chloroethane	ND	ug/L	5.0	1			05/24/11 19:57	75-00-3	
Chloroform	ND	ug/L	5.0	1			05/24/11 19:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1			05/24/11 19:57	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			05/24/11 19:57	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			05/24/11 19:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			05/24/11 19:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			05/24/11 19:57	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			05/24/11 19:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			05/24/11 19:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1			05/24/11 19:57	75-35-4	
cis-1,2-Dichloroethene	1790	ug/L	100	20			05/24/11 20:21	156-59-2	
trans-1,2-Dichloroethene	7.4	ug/L	5.0	1			05/24/11 19:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			05/24/11 19:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			05/24/11 19:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			05/24/11 19:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			05/24/11 19:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			05/24/11 19:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1			05/24/11 19:57	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1			05/24/11 19:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			05/24/11 19:57	108-10-1	
Styrene	ND	ug/L	5.0	1			05/24/11 19:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			05/24/11 19:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			05/24/11 19:57	127-18-4	
Toluene	ND	ug/L	5.0	1			05/24/11 19:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			05/24/11 19:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			05/24/11 19:57	79-00-5	
Trichloroethene	45.7	ug/L	5.0	1			05/24/11 19:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			05/24/11 19:57	75-69-4	
Vinyl chloride	651	ug/L	20.0	20			05/24/11 20:21	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			05/24/11 19:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			05/24/11 19:57	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1			05/24/11 19:57	460-00-4	
1,2-Dichloroethane-d4 (S)	82	%	70-130	1			05/24/11 19:57	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1			05/24/11 19:57	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3046913

Sample: POST-CARB		Lab ID: 3046913003	Collected: 05/18/11 11:10	Received: 05/19/11 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	330 ug/L		10.0	1		05/24/11 20:45	67-64-1	
Benzene	ND ug/L		1.0	1		05/24/11 20:45	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		05/24/11 20:45	75-27-4	
Bromoform	ND ug/L		5.0	1		05/24/11 20:45	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/24/11 20:45	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		05/24/11 20:45	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		05/24/11 20:45	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		05/24/11 20:45	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		05/24/11 20:45	108-90-7	
Chloroethane	ND ug/L		5.0	1		05/24/11 20:45	75-00-3	
Chloroform	ND ug/L		5.0	1		05/24/11 20:45	67-66-3	
Chloromethane	ND ug/L		5.0	1		05/24/11 20:45	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		05/24/11 20:45	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		05/24/11 20:45	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		05/24/11 20:45	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		05/24/11 20:45	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		05/24/11 20:45	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		05/24/11 20:45	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		05/24/11 20:45	75-35-4	
cis-1,2-Dichloroethene	16.4 ug/L		5.0	1		05/24/11 20:45	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		05/24/11 20:45	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		05/24/11 20:45	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		05/24/11 20:45	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		05/24/11 20:45	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		05/24/11 20:45	100-41-4	
2-Hexanone	ND ug/L		10.0	1		05/24/11 20:45	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		05/24/11 20:45	98-82-8	
Methylene Chloride	ND ug/L		5.0	1		05/24/11 20:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		05/24/11 20:45	108-10-1	
Styrene	ND ug/L		5.0	1		05/24/11 20:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/24/11 20:45	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/24/11 20:45	127-18-4	
Toluene	ND ug/L		5.0	1		05/24/11 20:45	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/24/11 20:45	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/24/11 20:45	79-00-5	
Trichloroethene	ND ug/L		5.0	1		05/24/11 20:45	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/24/11 20:45	75-69-4	
Vinyl chloride	763 ug/L		10.0	10		05/24/11 21:10	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		05/24/11 20:45	179601-23-1	
o-Xylene	ND ug/L		5.0	1		05/24/11 20:45	95-47-6	
4-Bromofluorobenzene (S)	100 %		70-130	1		05/24/11 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	87 %		70-130	1		05/24/11 20:45	17060-07-0	
Toluene-d8 (S)	103 %		70-130	1		05/24/11 20:45	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3046913

Sample: TB-01		Lab ID: 3046913004		Collected: 05/18/11 00:01		Received: 05/19/11 10:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/24/11 21:34	67-64-1		
Benzene	ND	ug/L	1.0	1		05/24/11 21:34	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		05/24/11 21:34	75-27-4		
Bromoform	ND	ug/L	5.0	1		05/24/11 21:34	75-25-2		
Bromomethane	ND	ug/L	5.0	1		05/24/11 21:34	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		05/24/11 21:34	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		05/24/11 21:34	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		05/24/11 21:34	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		05/24/11 21:34	108-90-7		
Chloroethane	ND	ug/L	5.0	1		05/24/11 21:34	75-00-3		
Chloroform	ND	ug/L	5.0	1		05/24/11 21:34	67-66-3		
Chloromethane	ND	ug/L	5.0	1		05/24/11 21:34	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		05/24/11 21:34	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 21:34	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 21:34	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/24/11 21:34	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		05/24/11 21:34	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		05/24/11 21:34	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		05/24/11 21:34	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/24/11 21:34	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/24/11 21:34	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		05/24/11 21:34	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/24/11 21:34	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/24/11 21:34	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		05/24/11 21:34	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		05/24/11 21:34	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/24/11 21:34	98-82-8		
Methylene Chloride	ND	ug/L	5.0	1		05/24/11 21:34	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/24/11 21:34	108-10-1		
Styrene	ND	ug/L	5.0	1		05/24/11 21:34	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/24/11 21:34	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		05/24/11 21:34	127-18-4		
Toluene	ND	ug/L	5.0	1		05/24/11 21:34	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/24/11 21:34	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/24/11 21:34	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		05/24/11 21:34	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		05/24/11 21:34	75-69-4		
Vinyl chloride	ND	ug/L	1.0	1		05/24/11 21:34	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		05/24/11 21:34	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		05/24/11 21:34	95-47-6		
4-Bromofluorobenzene (S)	99	%	70-130	1		05/24/11 21:34	460-00-4		
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		05/24/11 21:34	17060-07-0		
Toluene-d8 (S)	103	%	70-130	1		05/24/11 21:34	2037-26-5		

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3046913

QC Batch: MSV/9399 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3046913001, 3046913002, 3046913003, 3046913004

METHOD BLANK: 302062 Matrix: Water
Associated Lab Samples: 3046913001, 3046913002, 3046913003, 3046913004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/24/11 12:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/24/11 12:39	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/24/11 12:39	
1,1-Dichloroethane	ug/L	ND	5.0	05/24/11 12:39	
1,1-Dichloroethene	ug/L	ND	5.0	05/24/11 12:39	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/24/11 12:39	
1,2-Dichloroethane	ug/L	ND	5.0	05/24/11 12:39	
1,2-Dichloropropane	ug/L	ND	5.0	05/24/11 12:39	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/24/11 12:39	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/24/11 12:39	
2-Butanone (MEK)	ug/L	ND	10.0	05/24/11 12:39	
2-Hexanone	ug/L	ND	10.0	05/24/11 12:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/24/11 12:39	
Acetone	ug/L	ND	10.0	05/24/11 12:39	
Benzene	ug/L	ND	1.0	05/24/11 12:39	
Bromodichloromethane	ug/L	ND	5.0	05/24/11 12:39	
Bromoform	ug/L	ND	5.0	05/24/11 12:39	
Bromomethane	ug/L	ND	5.0	05/24/11 12:39	
Carbon disulfide	ug/L	ND	5.0	05/24/11 12:39	
Carbon tetrachloride	ug/L	ND	5.0	05/24/11 12:39	
Chlorobenzene	ug/L	ND	5.0	05/24/11 12:39	
Chloroethane	ug/L	ND	5.0	05/24/11 12:39	
Chloroform	ug/L	ND	5.0	05/24/11 12:39	
Chloromethane	ug/L	ND	5.0	05/24/11 12:39	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/24/11 12:39	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/24/11 12:39	
Dibromochloromethane	ug/L	ND	5.0	05/24/11 12:39	
Ethylbenzene	ug/L	ND	5.0	05/24/11 12:39	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/24/11 12:39	
m&p-Xylene	ug/L	ND	5.0	05/24/11 12:39	
Methylene Chloride	ug/L	ND	5.0	05/24/11 12:39	
o-Xylene	ug/L	ND	5.0	05/24/11 12:39	
Styrene	ug/L	ND	5.0	05/24/11 12:39	
Tetrachloroethene	ug/L	ND	5.0	05/24/11 12:39	
Toluene	ug/L	ND	5.0	05/24/11 12:39	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/24/11 12:39	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/24/11 12:39	
Trichloroethene	ug/L	ND	5.0	05/24/11 12:39	
Trichlorofluoromethane	ug/L	ND	5.0	05/24/11 12:39	
Vinyl chloride	ug/L	ND	1.0	05/24/11 12:39	
1,2-Dichloroethane-d4 (S)	%	83	70-130	05/24/11 12:39	
4-Bromofluorobenzene (S)	%	100	70-130	05/24/11 12:39	
Toluene-d8 (S)	%	104	70-130	05/24/11 12:39	

Date: 08/01/2011 05:32 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 12

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QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3046913

LABORATORY CONTROL SAMPLE: 302063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	15.6	78	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	70-130	
1,1,2-Trichloroethane	ug/L	20	18.8	94	70-130	
1,1-Dichloroethane	ug/L	20	17.5	88	70-130	
1,1-Dichloroethene	ug/L	20	14.3	71	70-130	
1,2-Dichlorobenzene	ug/L	20	17.6	88	70-130	
1,2-Dichloroethane	ug/L	20	14.3	71	70-130	
1,2-Dichloropropane	ug/L	20	19.5	97	70-130	
1,3-Dichlorobenzene	ug/L	20	17.5	87	70-130	
1,4-Dichlorobenzene	ug/L	20	17.7	88	70-130	
2-Butanone (MEK)	ug/L	20	15.8	79	70-130	
2-Hexanone	ug/L	20	18.3	91	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.0	80	70-130	
Acetone	ug/L	20	15.5	77	70-130	
Benzene	ug/L	20	19.5	97	70-130	
Bromodichloromethane	ug/L	20	15.9	79	70-130	
Bromoform	ug/L	20	17.2	86	70-130	
Bromomethane	ug/L	20	30.9	155	70-130	L1
Carbon disulfide	ug/L	20	15.5	77	70-130	
Carbon tetrachloride	ug/L	20	15.2	76	70-130	
Chlorobenzene	ug/L	20	18.6	93	70-130	
Chloroethane	ug/L	20	16.6	83	70-130	
Chloroform	ug/L	20	15.7	78	70-130	
Chloromethane	ug/L	20	17.5	87	70-130	
cis-1,2-Dichloroethene	ug/L	20	16.9	85	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.9	89	70-130	
Dibromochloromethane	ug/L	20	16.8	84	70-130	
Ethylbenzene	ug/L	20	19.0	95	70-130	
Isopropylbenzene (Cumene)	ug/L	20	19.0	95	70-130	
m&p-Xylene	ug/L	40	39.6	99	70-130	
Methylene Chloride	ug/L	20	13.9	70	70-130	
o-Xylene	ug/L	20	19.6	98	70-130	
Styrene	ug/L	20	18.8	94	70-130	
Tetrachloroethene	ug/L	20	17.7	88	70-130	
Toluene	ug/L	20	19.7	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	15.9	80	70-130	
trans-1,3-Dichloropropene	ug/L	20	15.7	78	70-130	
Trichloroethene	ug/L	20	18.1	91	70-130	
Trichlorofluoromethane	ug/L	20	15.2	76	70-130	
Vinyl chloride	ug/L	20	17.5	88	70-130	
1,2-Dichloroethane-d4 (S)	%			82	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			103	70-130	

QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3046913

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 302064											
302065											
Parameter	Units	3046873016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	18.7	20.0	94	100	70-130	6	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	21.9	26.2	110	131	70-130	18	M0
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	21.7	23.2	108	116	70-130	7	
1,1-Dichloroethane	ug/L	1.0 U	20	20	19.4	22.6	97	113	70-130	15	
1,1-Dichloroethene	ug/L	1.0 U	20	20	17.4	20.2	87	101	70-130	15	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.0	20.7	95	104	70-130	9	
1,2-Dichloroethane	ug/L	1.0 U	20	20	16.3	17.8	81	89	70-130	9	
1,2-Dichloropropane	ug/L	1.0 U	20	20	21.6	24.8	108	124	70-130	14	
1,3-Dichlorobenzene	ug/L	1.0 U	20	20	18.5	20.4	93	102	70-130	10	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	18.9	20.6	95	103	70-130	8	
2-Butanone (MEK)	ug/L	10.0 U	20	20	19.4	22.2	97	111	70-130	14	
2-Hexanone	ug/L	10.0 U	20	20	22.0	25.3	110	127	70-130	14	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	21.0	24.2	105	121	70-130	14	
Acetone	ug/L	4.4J	20	20	20.6	22.5	81	91	70-130	9	
Benzene	ug/L	1.0 U	20	20	22.3	25.0	111	125	70-130	11	
Bromodichloromethane	ug/L	1.0 U	20	20	17.6	19.5	88	97	70-130	10	
Bromoform	ug/L	1.0 U	20	20	18.1	19.2	90	96	70-130	6	
Bromomethane	ug/L	1.0 U	20	20	30.4	34.1	152	171	70-130	12	M0
Carbon disulfide	ug/L	1.0 U	20	20	17.8	17.8	89	89	70-130	.1	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.8	18.9	89	94	70-130	6	
Chlorobenzene	ug/L	0.35J	20	20	21.1	23.1	104	114	70-130	9	
Chloroethane	ug/L	1.0 U	20	20	15.5	20.7	78	104	70-130	29	
Chloroform	ug/L	1.0 U	20	20	17.7	19.6	89	98	70-130	10	
Chloromethane	ug/L	1.0 U	20	20	17.5	23.2	87	116	70-130	28	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.2	21.6	96	108	70-130	12	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	21.0	23.5	105	117	70-130	11	
Dibromochloromethane	ug/L	1.0 U	20	20	18.4	19.3	92	96	70-130	5	
Ethylbenzene	ug/L	1.0 U	20	20	21.6	24.2	108	121	70-130	11	
Isopropylbenzene (Cumene)	ug/L	3.4	20	20	24.6	27.5	106	121	70-130	11	
m&p-Xylene	ug/L	0.98J	40	40	45.4	49.9	111	122	70-130	9	
Methylene Chloride	ug/L	1.0 U	20	20	15.5	18.1	76	90	70-130	16	
o-Xylene	ug/L	3.9	20	20	25.8	28.7	110	124	70-130	11	
Styrene	ug/L	1.0 U	20	20	21.0	22.3	105	111	70-130	6	
Tetrachloroethene	ug/L	1.0 U	20	20	20.3	21.5	101	107	70-130	6	
Toluene	ug/L	1.0 U	20	20	22.1	24.7	110	124	70-130	11	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	18.2	20.8	91	104	70-130	13	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	18.1	19.9	90	100	70-130	10	
Trichloroethene	ug/L	1.0 U	20	20	20.7	22.4	103	112	70-130	8	
Trichlorofluoromethane	ug/L		20	20	16.2	19.3	81	97	70-130	18	
Vinyl chloride	ug/L	1.0 U	20	20	18.1	23.6	91	118	70-130	26	
1,2-Dichloroethane-d4 (S)	%						80	87	70-130		
4-Bromofluorobenzene (S)	%						96	96	70-130		
Toluene-d8 (S)	%						103	106	70-130		

QUALIFIERS

Project: Essex-Hope
Pace Project No.: 3046913

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope

Pace Project No.: 3046913

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3046913001	PRE-CARB	EPA 8260	MSV/9399		
3046913002	PRIMARY-EFF	EPA 8260	MSV/9399		
3046913003	POST-CARB	EPA 8260	MSV/9399		
3046913004	TB-01	EPA 8260	MSV/9399		

CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A Required Client Information: Company: URS CORP Address: 501 HOLIDAY BL FOSTER PLAZA, STE 300 PITTSBURGH, PA 15220 Email To: _____ Phone: 412-583-4700 / 912-583-4701 Requested Due Date/TIME: STANDARD		Section B Required Project Information: Report To: MARK DOWIAK Copy To: VALERIE SIBETO Purchase Order No.: 41568904 Project Name: ESSX/HDR JAMESTOWN Project Number: 41568904.10000		Section C Invoice Information: Attention: _____ Company Name: _____ Address: _____ Price Quote Reference: _____ Pace Project Manager: _____ Pace Profile #: _____	
Regulatory Agency: _____ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER ☐		Site Location: NY STATE: _____		Page: 1 of 1 1489738	

ITEM #	Section D Required Client Information		Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.											
	COMPOSITE START	COMPOSITE END/GRAB				DATE	TIME	DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol				Other										
1	PRE-CARB			WTG					5/18/11	1100																					30416913	001
2	PRIMARY-EFF									1105																						002
3	POST-CARB									1110																						003
4	POST-CARB									1140																						
5	POST-CARB									1210																						
6	POST-CARB									1240																						
7	TB-01			WTG					5/18/11																							004
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS: COMPOSITE FOUR (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE		RELINQUISHED BY / AFFILIATION: Valerie Sibeto / URS	DATE: 5/18/11	TIME: 1310	ACCEPTED BY / AFFILIATION: Valerie Sibeto	DATE: 5/19/11	TIME: 1000	Temp in °C: 5.3	Received on Ice (Y/N): Y	Custody Sealed Cooler (Y/N): N	Samples Intact (Y/N): Y
--	--	---	-------------------------	----------------------	---	-------------------------	----------------------	---------------------------	------------------------------------	--	-----------------------------------

ORIGINAL

SAMPLER NAME AND SIGNATURE:
 PRINT Name of SAMPLER: **VALERIE SIBETO**
 SIGNATURE of SAMPLER: *Valerie Sibeto*
 DATE Signed (MM/DD/YY): **5-18-11**



Sample Condition Upon Receipt

Client Name: URS

Project # 3046913

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

Tracking #: 867255381050

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

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

Thermometer Used ③ 5

Type of Ice: ☒ Wet ☐ Blue ☐ None ☒ Samples on ice, cooling process has begun

Cooler Temperature 5.3

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: LEL 5/19/11

Temp should be above freezing to 6°C

Comments:

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

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 5-20-11

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

August 01, 2011

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

RE: Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3049268

Dear Mr. Dowiak:

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

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

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

Sincerely,



Rachel Christner

rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3049268

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 12

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SAMPLE ANALYTE COUNT

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3049268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3049268001	PRE-CARB	EPA 8260	JAS	43	PASI-PA
3049268002	PRIMARY EFF	EPA 8260	JAS	43	PASI-PA
3049268003	POST CARB	EPA 8260	JAS	43	PASI-PA
3049268004	TB-01	EPA 8260	JAS	43	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 12

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ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3049268

Sample: PRE-CARB		Lab ID: 3049268001	Collected: 06/27/11 12:05	Received: 06/28/11 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	10.0	1		07/05/11 17:19	67-64-1	
Benzene	8.3	ug/L	1.0	1		07/05/11 17:19	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/05/11 17:19	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/05/11 17:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/05/11 17:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/05/11 17:19	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/05/11 17:19	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/05/11 17:19	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/05/11 17:19	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/05/11 17:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/05/11 17:19	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/05/11 17:19	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/05/11 17:19	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 17:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 17:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 17:19	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/05/11 17:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/05/11 17:19	107-06-2	
1,1-Dichloroethene	20.0	ug/L	5.0	1		07/05/11 17:19	75-35-4	
cis-1,2-Dichloroethene	5230	ug/L	200	40		07/06/11 12:07	156-59-2	
trans-1,2-Dichloroethene	73.7	ug/L	5.0	1		07/05/11 17:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/05/11 17:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/05/11 17:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/05/11 17:19	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/05/11 17:19	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/05/11 17:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/05/11 17:19	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/05/11 17:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/05/11 17:19	108-10-1	
Styrene	ND	ug/L	5.0	1		07/05/11 17:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/05/11 17:19	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/05/11 17:19	127-18-4	
Toluene	ND	ug/L	5.0	1		07/05/11 17:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/05/11 17:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/05/11 17:19	79-00-5	
Trichloroethene	1620	ug/L	200	40		07/06/11 12:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/05/11 17:19	75-69-4	
Vinyl chloride	673	ug/L	40.0	40		07/06/11 12:07	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/05/11 17:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/05/11 17:19	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		07/05/11 17:19	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		07/05/11 17:19	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		07/05/11 17:19	2037-26-5	

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3049268

Sample: PRIMARY EFF		Lab ID: 3049268002	Collected: 06/27/11 12:10	Received: 06/28/11 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	10.0	1		07/05/11 17:46	67-64-1	
Benzene	ND	ug/L	1.0	1		07/05/11 17:46	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/05/11 17:46	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/05/11 17:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/05/11 17:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/05/11 17:46	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/05/11 17:46	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/05/11 17:46	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/05/11 17:46	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/05/11 17:46	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/05/11 17:46	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/05/11 17:46	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/05/11 17:46	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 17:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 17:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/05/11 17:46	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/05/11 17:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/05/11 17:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/05/11 17:46	75-35-4	
cis-1,2-Dichloroethene	24.6	ug/L	5.0	1		07/05/11 17:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/05/11 17:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/05/11 17:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/05/11 17:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/05/11 17:46	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/05/11 17:46	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/05/11 17:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/05/11 17:46	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/05/11 17:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/05/11 17:46	108-10-1	
Styrene	ND	ug/L	5.0	1		07/05/11 17:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/05/11 17:46	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/05/11 17:46	127-18-4	
Toluene	ND	ug/L	5.0	1		07/05/11 17:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/05/11 17:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/05/11 17:46	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/05/11 17:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/05/11 17:46	75-69-4	
Vinyl chloride	777	ug/L	10.0	10		07/06/11 12:33	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/05/11 17:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/05/11 17:46	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		07/05/11 17:46	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		07/05/11 17:46	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		07/05/11 17:46	2037-26-5	

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3049268

Sample: POST CARB		Lab ID: 3049268003	Collected: 06/27/11 13:45	Received: 06/28/11 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		10.0	1		07/05/11 18:12	67-64-1	
Benzene	ND ug/L		1.0	1		07/05/11 18:12	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		07/05/11 18:12	75-27-4	
Bromoform	ND ug/L		5.0	1		07/05/11 18:12	75-25-2	
Bromomethane	ND ug/L		5.0	1		07/05/11 18:12	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		07/05/11 18:12	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		07/05/11 18:12	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		07/05/11 18:12	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		07/05/11 18:12	108-90-7	
Chloroethane	ND ug/L		5.0	1		07/05/11 18:12	75-00-3	
Chloroform	ND ug/L		5.0	1		07/05/11 18:12	67-66-3	
Chloromethane	ND ug/L		5.0	1		07/05/11 18:12	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		07/05/11 18:12	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		07/05/11 18:12	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		07/05/11 18:12	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		07/05/11 18:12	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		07/05/11 18:12	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		07/05/11 18:12	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		07/05/11 18:12	75-35-4	
cis-1,2-Dichloroethene	131 ug/L		5.0	1		07/05/11 18:12	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		07/05/11 18:12	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		07/05/11 18:12	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		07/05/11 18:12	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		07/05/11 18:12	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		07/05/11 18:12	100-41-4	
2-Hexanone	ND ug/L		10.0	1		07/05/11 18:12	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		07/05/11 18:12	98-82-8	
Methylene Chloride	ND ug/L		5.0	1		07/05/11 18:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/05/11 18:12	108-10-1	
Styrene	ND ug/L		5.0	1		07/05/11 18:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		07/05/11 18:12	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		07/05/11 18:12	127-18-4	
Toluene	ND ug/L		5.0	1		07/05/11 18:12	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		07/05/11 18:12	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		07/05/11 18:12	79-00-5	
Trichloroethene	ND ug/L		5.0	1		07/05/11 18:12	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		07/05/11 18:12	75-69-4	
Vinyl chloride	17.9 ug/L		1.0	1		07/05/11 18:12	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		07/05/11 18:12	179601-23-1	
o-Xylene	ND ug/L		5.0	1		07/05/11 18:12	95-47-6	
4-Bromofluorobenzene (S)	99 %		70-130	1		07/05/11 18:12	460-00-4	
1,2-Dichloroethane-d4 (S)	105 %		70-130	1		07/05/11 18:12	17060-07-0	
Toluene-d8 (S)	94 %		70-130	1		07/05/11 18:12	2037-26-5	

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3049268

Sample: TB-01		Lab ID: 3049268004	Collected: 06/27/11 00:01	Received: 06/28/11 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		10.0	1		07/05/11 15:09	67-64-1	
Benzene	ND ug/L		1.0	1		07/05/11 15:09	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		07/05/11 15:09	75-27-4	
Bromoform	ND ug/L		5.0	1		07/05/11 15:09	75-25-2	
Bromomethane	ND ug/L		5.0	1		07/05/11 15:09	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		07/05/11 15:09	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		07/05/11 15:09	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		07/05/11 15:09	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		07/05/11 15:09	108-90-7	
Chloroethane	ND ug/L		5.0	1		07/05/11 15:09	75-00-3	
Chloroform	ND ug/L		5.0	1		07/05/11 15:09	67-66-3	
Chloromethane	ND ug/L		5.0	1		07/05/11 15:09	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		07/05/11 15:09	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		07/05/11 15:09	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		07/05/11 15:09	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		07/05/11 15:09	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		07/05/11 15:09	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		07/05/11 15:09	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		07/05/11 15:09	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		07/05/11 15:09	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		07/05/11 15:09	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		07/05/11 15:09	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		07/05/11 15:09	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		07/05/11 15:09	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		07/05/11 15:09	100-41-4	
2-Hexanone	ND ug/L		10.0	1		07/05/11 15:09	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		07/05/11 15:09	98-82-8	
Methylene Chloride	ND ug/L		5.0	1		07/05/11 15:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/05/11 15:09	108-10-1	
Styrene	ND ug/L		5.0	1		07/05/11 15:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		07/05/11 15:09	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		07/05/11 15:09	127-18-4	
Toluene	ND ug/L		5.0	1		07/05/11 15:09	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		07/05/11 15:09	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		07/05/11 15:09	79-00-5	
Trichloroethene	ND ug/L		5.0	1		07/05/11 15:09	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		07/05/11 15:09	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		07/05/11 15:09	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		07/05/11 15:09	179601-23-1	
o-Xylene	ND ug/L		5.0	1		07/05/11 15:09	95-47-6	
4-Bromofluorobenzene (S)	97 %		70-130	1		07/05/11 15:09	460-00-4	
1,2-Dichloroethane-d4 (S)	105 %		70-130	1		07/05/11 15:09	17060-07-0	
Toluene-d8 (S)	96 %		70-130	1		07/05/11 15:09	2037-26-5	

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3049268

QC Batch: MSV/9782 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3049268001, 3049268002, 3049268003, 3049268004

METHOD BLANK: 317229 Matrix: Water

Associated Lab Samples: 3049268001, 3049268002, 3049268003, 3049268004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/05/11 14:43	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/05/11 14:43	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/05/11 14:43	
1,1-Dichloroethane	ug/L	ND	5.0	07/05/11 14:43	
1,1-Dichloroethene	ug/L	ND	5.0	07/05/11 14:43	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/05/11 14:43	
1,2-Dichloroethane	ug/L	ND	5.0	07/05/11 14:43	
1,2-Dichloropropane	ug/L	ND	5.0	07/05/11 14:43	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/05/11 14:43	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/05/11 14:43	
2-Butanone (MEK)	ug/L	ND	10.0	07/05/11 14:43	
2-Hexanone	ug/L	ND	10.0	07/05/11 14:43	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/05/11 14:43	
Acetone	ug/L	ND	10.0	07/05/11 14:43	
Benzene	ug/L	ND	1.0	07/05/11 14:43	
Bromodichloromethane	ug/L	ND	5.0	07/05/11 14:43	
Bromoform	ug/L	ND	5.0	07/05/11 14:43	
Bromomethane	ug/L	ND	5.0	07/05/11 14:43	
Carbon disulfide	ug/L	ND	5.0	07/05/11 14:43	
Carbon tetrachloride	ug/L	ND	5.0	07/05/11 14:43	
Chlorobenzene	ug/L	ND	5.0	07/05/11 14:43	
Chloroethane	ug/L	ND	5.0	07/05/11 14:43	
Chloroform	ug/L	ND	5.0	07/05/11 14:43	
Chloromethane	ug/L	ND	5.0	07/05/11 14:43	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/05/11 14:43	
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/05/11 14:43	
Dibromochloromethane	ug/L	ND	5.0	07/05/11 14:43	
Ethylbenzene	ug/L	ND	5.0	07/05/11 14:43	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/05/11 14:43	
m&p-Xylene	ug/L	ND	5.0	07/05/11 14:43	
Methylene Chloride	ug/L	ND	5.0	07/05/11 14:43	
o-Xylene	ug/L	ND	5.0	07/05/11 14:43	
Styrene	ug/L	ND	5.0	07/05/11 14:43	
Tetrachloroethene	ug/L	ND	5.0	07/05/11 14:43	
Toluene	ug/L	ND	5.0	07/05/11 14:43	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/05/11 14:43	
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/05/11 14:43	
Trichloroethene	ug/L	ND	5.0	07/05/11 14:43	
Trichlorofluoromethane	ug/L	ND	5.0	07/05/11 14:43	
Vinyl chloride	ug/L	ND	1.0	07/05/11 14:43	
1,2-Dichloroethane-d4 (S)	%	103	70-130	07/05/11 14:43	
4-Bromofluorobenzene (S)	%	98	70-130	07/05/11 14:43	
Toluene-d8 (S)	%	95	70-130	07/05/11 14:43	

Date: 08/01/2011 05:36 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 12

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QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3049268

LABORATORY CONTROL SAMPLE: 317230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.9	104	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	20.6	103	64.6-121	
1,1,2-Trichloroethane	ug/L	20	19.5	98	75.6-120	
1,1-Dichloroethane	ug/L	20	19.9	100	68.5-122	
1,1-Dichloroethene	ug/L	20	19.0	95	57.1-120	
1,2-Dichlorobenzene	ug/L	20	20.4	102	69.6-120	
1,2-Dichloroethane	ug/L	20	20.0	100	60.5-133	
1,2-Dichloropropane	ug/L	20	19.0	95	71-120	
1,3-Dichlorobenzene	ug/L	20	19.8	99	68.4-121	
1,4-Dichlorobenzene	ug/L	20	21.0	105	68.5-123	
2-Butanone (MEK)	ug/L	20	22.1	111	55.7-138	
2-Hexanone	ug/L	20	17.9	90	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.0	95	64.5-121	
Acetone	ug/L	20	23.5	117	70-130	
Benzene	ug/L	20	20.0	100	69.8-120	
Bromodichloromethane	ug/L	20	18.9	94	66.5-120	
Bromoform	ug/L	20	18.2	91	61.1-120	
Bromomethane	ug/L	20	32.8	164	10.6-240	L3
Carbon disulfide	ug/L	20	21.0	105	60.2-122	
Carbon tetrachloride	ug/L	20	19.1	96	60.1-127	
Chlorobenzene	ug/L	20	19.4	97	70-130	
Chloroethane	ug/L	20	19.0	95	36.8-142	
Chloroform	ug/L	20	20.1	101	70-130	
Chloromethane	ug/L	20	15.2	76	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	19.7	98	74.3-120	
Dibromochloromethane	ug/L	20	19.1	95	66.1-120	
Ethylbenzene	ug/L	20	19.2	96	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	20.6	103	68.3-129	
m&p-Xylene	ug/L	40	41.3	103	70.4-130	
Methylene Chloride	ug/L	20	18.7	94	70-130	
o-Xylene	ug/L	20	20.0	100	70.6-127	
Styrene	ug/L	20	17.6	88	69.9-120	
Tetrachloroethene	ug/L	20	20.1	100	63.4-121	
Toluene	ug/L	20	19.9	99	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	19.4	97	71-120	
Trichloroethene	ug/L	20	18.5	93	65.9-120	
Trichlorofluoromethane	ug/L	20	20.9	105	44.8-137	
Vinyl chloride	ug/L	20	17.9	89	51-127	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			95	70-130	

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3049268

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 317238 317239											
Parameter	Units	3049285001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	22.0	21.9	110	110	70-130	.4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.1	18.9	96	94	70-130	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.5	18.8	93	94	70-130	2	
1,1-Dichloroethane	ug/L	ND	20	20	20.1	20.4	101	102	70-130	1	
1,1-Dichloroethene	ug/L	ND	20	20	20.3	20.1	101	101	70-130	.7	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.8	19.5	99	98	70-130	1	
1,2-Dichloroethane	ug/L	ND	20	20	19.8	19.6	99	98	70-130	.9	
1,2-Dichloropropane	ug/L	ND	20	20	18.3	19.2	92	96	70-130	4	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.0	19.3	100	97	70-130	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.7	19.3	99	96	70-130	2	
2-Butanone (MEK)	ug/L	ND	20	20	19.9	21.7	100	108	70-130	8	
2-Hexanone	ug/L	ND	20	20	16.8	17.7	84	89	70-130	5	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.9	19.2	89	96	70-130	7	
Acetone	ug/L	ND	20	20	17.0	20.0	85	100	70-130	17	
Benzene	ug/L	ND	20	20	19.6	20.0	96	98	70-130	2	
Bromodichloromethane	ug/L	ND	20	20	17.4	17.7	87	89	70-130	2	
Bromoform	ug/L	ND	20	20	16.6	17.5	83	87	70-130	5	
Bromomethane	ug/L	ND	20	20	22.2	25.1	111	125	70-130	12	
Carbon disulfide	ug/L	ND	20	20	19.1	19.2	95	96	70-130	.3	
Carbon tetrachloride	ug/L	ND	20	20	20.8	20.5	104	103	70-130	1	
Chlorobenzene	ug/L	ND	20	20	19.1	19.4	95	97	70-130	2	
Chloroethane	ug/L	ND	20	20	20.5	21.4	103	107	70-130	4	
Chloroform	ug/L	ND	20	20	20.4	20.0	102	100	70-130	2	
Chloromethane	ug/L	ND	20	20	14.9	15.7	74	78	70-130	5	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.2	20.2	100	100	70-130	.4	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.4	18.8	92	94	70-130	2	
Dibromochloromethane	ug/L	ND	20	20	17.2	17.7	86	89	70-130	3	
Ethylbenzene	ug/L	ND	20	20	20.4	19.6	102	98	70-130	4	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.3	20.4	106	102	70-130	4	
m&p-Xylene	ug/L	ND	40	40	42.1	41.0	105	102	70-130	3	
Methylene Chloride	ug/L	ND	20	20	18.4	18.7	92	93	70-130	1	
o-Xylene	ug/L	ND	20	20	20.4	20.2	102	101	70-130	1	
Styrene	ug/L	ND	20	20	17.4	17.7	87	89	70-130	2	
Tetrachloroethene	ug/L	ND	20	20	20.8	20.5	104	103	70-130	2	
Toluene	ug/L	ND	20	20	19.6	19.9	98	100	70-130	2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.9	19.7	99	98	70-130	.9	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.4	18.4	92	92	70-130	.05	
Trichloroethene	ug/L	ND	20	20	18.6	19.8	93	99	70-130	6	
Trichlorofluoromethane	ug/L	ND	20	20	24.4	23.4	122	117	70-130	4	
Vinyl chloride	ug/L	ND	20	20	19.6	19.3	98	97	70-130	1	
1,2-Dichloroethane-d4 (S)	%						105	101	70-130		
4-Bromofluorobenzene (S)	%						99	102	70-130		
Toluene-d8 (S)	%						93	96	70-130		

QUALIFIERS

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3049268

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ESSEX/HOPE JAMESTOWN

Pace Project No.: 3049268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3049268001	PRE-CARB	EPA 8260	MSV/9782		
3049268002	PRIMARY EFF	EPA 8260	MSV/9782		
3049268003	POST CARB	EPA 8260	MSV/9782		
3049268004	TB-01	EPA 8260	MSV/9782		

CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A

Required Client Information:

Company: **URS CORP**
 Address: **501 HUNTER ST. 15th FL**
PITTSBURGH, PA 15220
 Email To: **URS**
 Project Name: **URS**
 Project Number: **URS**
 Requested Due Date/TAT: **URS**

Section B

Required Project Information:

Report To: **URS**
 Copy To: **URS**
 Purchase Order No.: **URS**
 Project Name: **URS**
 Project Number: **URS**
 Requested Due Date/TAT: **URS**

Section C

Invoice Information:

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

Page: **1** of **1**
 1483999
 REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
 Site Location
 STATE: **NY**

ITEM #	Section D Required Client Information	Matrix Codes MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB			Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other															
1	PRE-CARB	DW	MTG	DATE	TIME	DATE	TIME																001
2	PRIMARY - EFF	WT		DATE	TIME	DATE	TIME																002
3	POST-CARB	WW		DATE	TIME	DATE	TIME																003
4	POST-CARB	P		DATE	TIME	DATE	TIME																
5	POST-CARB	SL		DATE	TIME	DATE	TIME																
6	POST-CARB	OL		DATE	TIME	DATE	TIME																
7	TB-OI	WP		DATE	TIME	DATE	TIME																
8		AR		DATE	TIME	DATE	TIME																
9		TS		DATE	TIME	DATE	TIME																
10		OT		DATE	TIME	DATE	TIME																
11				DATE	TIME	DATE	TIME																
12				DATE	TIME	DATE	TIME																

ADDITIONAL COMMENTS: **COMPOSITE FIVE (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE**

RELINQUISHED BY / AFFILIATION: **URS** DATE: **6/27/11** TIME: **1530**

ACCEPTED BY / AFFILIATION: **URS** DATE: **6/27/11** TIME: **1530**

SAMPLE CONDITIONS: **Y**

Temp in °C: **19**

Received on: **6/28/11**

Sealed Cooler: **Y**

Custody: **N**

Samples Intact: **Y**

SAMPLER NAME AND SIGNATURE: **URS**

PRINT Name of SAMPLER: **URS**

SIGNATURE of SAMPLER: **URS**

DATE Signed (MM/DD/YY): **6/27/11**



Sample Condition Upon Receipt

Client Name: URS

Project # 3049208

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

Tracking #: 8161255 381072

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

Optional
Proj. Due Date:
Proj. Name:

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

Thermometer Used 3 5

Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.9

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: DLH 6/28/11

Temp should be above freezing to 6°C

Comments:

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

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 6/29/11

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