August 21, 2012

Mr. Maurice Moore
Division of Hazardous Waste Management
New York State Department of Environmental Protection
270 Michigan Ave.
Buffalo, NY 14203-2999

Re: 2012 Semi-Annual Performance Monitoring Report
Essex/Hope Site, Jamestown, New York
URS Project No. 41569181

Dear Mr. Moore:

This letter report is a summary of the January through June 2012 operation performance period for the remedial system at the above-referenced site. This report is submitted in accordance with the revised Performance Monitoring Plan (PMP) prepared by URS Corporation (URS) dated February 2011.

GENERAL OPERATIONS

During the reporting period, approximately 835,115 gallons of groundwater were treated and discharged to the City of Jamestown POTW. The system carbon was changed out on January 4, 2012 and May 1, 2012. There were no major disruptions in normal operating conditions.
The following sections discuss the data on groundwater quality sampling and groundwater flow.

GROUNDWATER FLOW EVALUATION

Water level measurements were taken on March 13 and June 11, 2012. Water level data is provided in Appendix A of this report. Groundwater contour maps illustrating pumping conditions during the reporting period are provided as Figures 1 through 4. Recovery Well RW-6D remained offline for most of the 1st half while continued efforts were made to address the acetone hotspot. URS' research determined that acetone is not included on the USEPA list of Total Toxic Organics (TTOs) and therefore, not considered a compound of interest. On June 6, 2012, a letter of notification was sent to the City of Jamestown Board of Public Utilities (BPU) advising that acetone would no longer be reported as a TTO. RW-6D was subsequently restarted on June 11, 2012. The attached plots for deep groundwater elevations reflect the period when RW-6D was shutdown.

WATER QUALITY RESULTS

Performance monitoring for 2012 includes semi-annual sampling of the recovery wells during the 2nd and 4th Quarters and monthly influent and effluent sampling of the treatment system. Recovery Well sampling was conducted on June 12, 2012. Samples were analyzed by Pace

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Analytical of Greensburg, Pennsylvania for volatile organic compounds (VOC's) by US EPA Method 8260B. The recovery well analytical results are summarized in Table 1. Laboratory reports are included as Appendix B.

In accordance with the City of Jamestown Board of Public Utilities (BPU) Industrial Wastewater Discharge Permit Number 26 (Permit), the treatment system is monitored for pH and VOCs to ensure compliance with the discharge requirements. Sampling points include the influent, primary carbon effluent and secondary carbon effluent (discharge to POTW). These points are sampled each month and reported to the Jamestown BPU on a semi-annual basis. Groundwater treatment system data for January through June 2012 is summarized on Tables 2 through 4. These tables represent the system influent, individual carbon vessel effluent and post carbon (system discharge to POTW) concentrations. There were no discharge exceedances during this reporting period.

This letter report has been prepared to satisfy the reporting requirements stipulated in the Performance Monitoring Plan and to evaluate remediation effectiveness on a semi-annual basis. If you have any questions or desire additional information, please do not hesitate to call me at (412) 503-4672.

Sincerely,

URS

Mark Dowiak/us

Mark Dowiak, P.E.
Project Manager
URS Dow Business Unit

Enclosure

cc: Tim King – The Dow Chemical Company
Matt Forcucci – New York State Department of Health
James Charles, Esq. – Division of Environmental Enforcement
Carlo J. Montisano – Custom Production Manufacturing, Inc.
Valerie Sibeto – URS

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TABLES

Table 1
Semi-Annual Recovery Well Sampling
2nd Quarter Analytical Results
June 12, 2012

Volatile Organic Compounds (Method 8260A) - mg/L	Site GW RAOs	RW-1S	RW-2S	RW-2D	RW-6D	RW-3S
Acetone		ND	ND	ND	**20,600**	ND
Benzene		ND	ND	**10**	**23.9**	**1.1**
2-Butanone		ND	ND	ND	**259**	ND
Carbon Disulfide		ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)		ND	ND	ND	ND	**4.2**
1,1-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	**27.4**	**28.9**	ND
cis-1,2-Dichloroethene		**459**	**42.0**	**7,660**	**16,700**	ND
trans-1,2-Dichloroethene	**5**	ND	ND	**165**	**181**	ND
Ethylbenzene	**5**	ND	ND	ND	ND	ND
4-Methyl-2-pentanone		ND	ND	ND	ND	ND
Methylene Chloride		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	ND
Trichloroethene	**5**	**294**	**10.8**	**1,040**	**3,900**	ND
Vinyl Chloride	**5**	**16.9**	ND	**837**	**3,390**	ND
Xylenes (total)	**5**	ND	ND	ND	ND	ND

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives

µg/l = Micrograms per liter

ND = Not Detected/Below minimum laboratory reporting limit

Table 2
POTW Monthly Monitoring Summary
2012 System Pre-Carbon
Volatile Organic Compounds (µg/L)

Sample Date	17-Jan-12	15-Feb-12	20-Mar-12	19-Apr-12	18-May-12	11-Jun-12						
Acetone	ND	ND	ND	ND	ND	ND						
2-Butanone	ND	ND	ND	ND	ND	ND						
Benzene	**4.0**	**8.3**	**7.3**	**6.2**	**7.7**	**8.2**						
Chloroform	ND	ND	ND	ND	ND	ND						
Chloromethane	ND	ND	ND	ND	ND	ND						
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND						
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND						
1,1-Dichloroethene	**10.9**	**23.0**	**17.6**	**14.9**	**17.9**	**18.5**						
cis-1,2-Dichloroethene	**2,800**	**5,650**	**5,210**	**4,840**	**4,650**	**5,380**						
trans-1,2-Dichloroethene	**56.2**	**87.5**	**67.8**	**107**	**84.1**	**99.3**						
Ethylbenzene	ND	ND	ND	ND	ND	ND						
Methylene Chloride	ND	ND	ND	ND	ND	ND						
Toluene	ND	ND	ND	ND	ND	ND						
Trichloroethene	**476**	**649**	**611**	**469**	**839**	**817**						
Vinyl Chloride	**346**	**630**	**427**	**368**	**394**	**426**						
Total Xylenes	ND	ND	ND	ND	ND	ND						
Pre-Carbon TOTAL VOCs	**3,693**	**7,048**	**6,341**	**5,805**	**5,993**	**6,749**	**0**	**0**	**0**	**0**	**0**	**0**

Notes:

ND = Not detected/Below minimum laboratory reporting limit
µg/L = micrograms per liter
Pre-Carbon sample results represent system influent.

System Carbon was changed out on January 4, 2012 and May 1, 2012.

Table 3
POTW Monthly Monitoring Summary
2012 System Primary Carbon Effluent
Volatile Organic Compounds (µg/L)

Sample Date	17-Jan-12	15-Feb-12	20-Mar-12	19-Apr-12	18-May-12	11-Jun-12						
Acetone	ND	ND	ND	ND	ND	ND						
2-Butanone	ND	ND	ND	ND	ND	ND						
Benzene	ND	ND	ND	ND	ND	ND						
Chloroform	ND	ND	ND	ND	ND	ND						
Chloromethane	ND	ND	ND	ND	ND	ND						
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND						
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND						
1,1-Dichloroethene	ND	ND	ND	**5.5**	ND	ND						
cis-1,2-Dichloroethene	**12.5**	**15.1**	**1,730**	**3,450**	**11.0**	**11.4**						
trans-1,2-Dichloroethene	ND	ND	ND	**27.8**	ND	ND						
Ethylbenzene	ND	ND	ND	ND	ND	ND						
Methylene Chloride	ND	ND	ND	ND	ND	ND						
Toluene	ND	ND	ND	ND	ND	ND						
Trichloroethene	ND	ND	ND	**7.7**	ND	ND						
Vinyl Chloride	**564**	**637**	**767**	**488**	**4.5**	**6.2**						
Total Xylenes	ND	ND	ND	ND	ND	ND						
Primary-Carbon TOTAL VOCs	**577**	**652**	**2,497**	**3,979**	**16**	**18**	**0**	**0**	**0**	**0**	**0**	**0**

Notes:

ND = Not detected/Below minimum laboratory reporting limit
µg/L = micrograms per liter
Primary Carbon sample results represent effluent from the first carbon vessel in the two (2) carbon vessel system.

System Carbon was changed out on January 4, 2012 and May 1, 2012.

Table 4
POTW Monthly Monitoring Summary
2012 System Post Carbon Effluent
Volatile Organic Compounds (µg/L)

Sample Date	17-Jan-12	15-Feb-12	20-Mar-12	19-Apr-12	18-May-12	11-Jun-12						
Acetone	ND	ND	ND	ND	ND	ND						
2-Butanone	ND	ND	ND	ND	ND	ND						
Benzene	ND	ND	ND	ND	ND	ND						
Chloroform	ND	ND	ND	ND	ND	ND						
Chloromethane	ND	ND	ND	ND	ND	ND						
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND						
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND						
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND						
cis-1,2-Dichloroethene	**255**	**268**	**206**	**169**	**49.5**	**34.0**						
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND						
Ethylbenzene	ND	ND	ND	ND	ND	ND						
Methylene Chloride	ND	ND	ND	ND	ND	ND						
Toluene	ND	ND	ND	ND	ND	ND						
Trichloroethene	**7.2**	**9.5**	**6.2**	ND	ND	ND						
Vinyl Chloride	**119**	**495**	**655**	**833**	**1.8**	**1.3**						
Total Xylenes	ND	ND	ND	ND	ND	ND						
Post-Carbon TOTAL VOCs	**381**	**773**	**867**	**1,002**	**51**	**35**	**0**	**0**	**0**	**0**	**0**	**0**
Post-Carbon TOTAL TTOs	**381**	**773**	**867**	**1,002**	**51**	**35**	**0**	**0**	**0**	**0**	**0**	**0**

Notes:

ND = Not detected/Below minimum laboratory reporting limit
µg/L = micrograms per liter

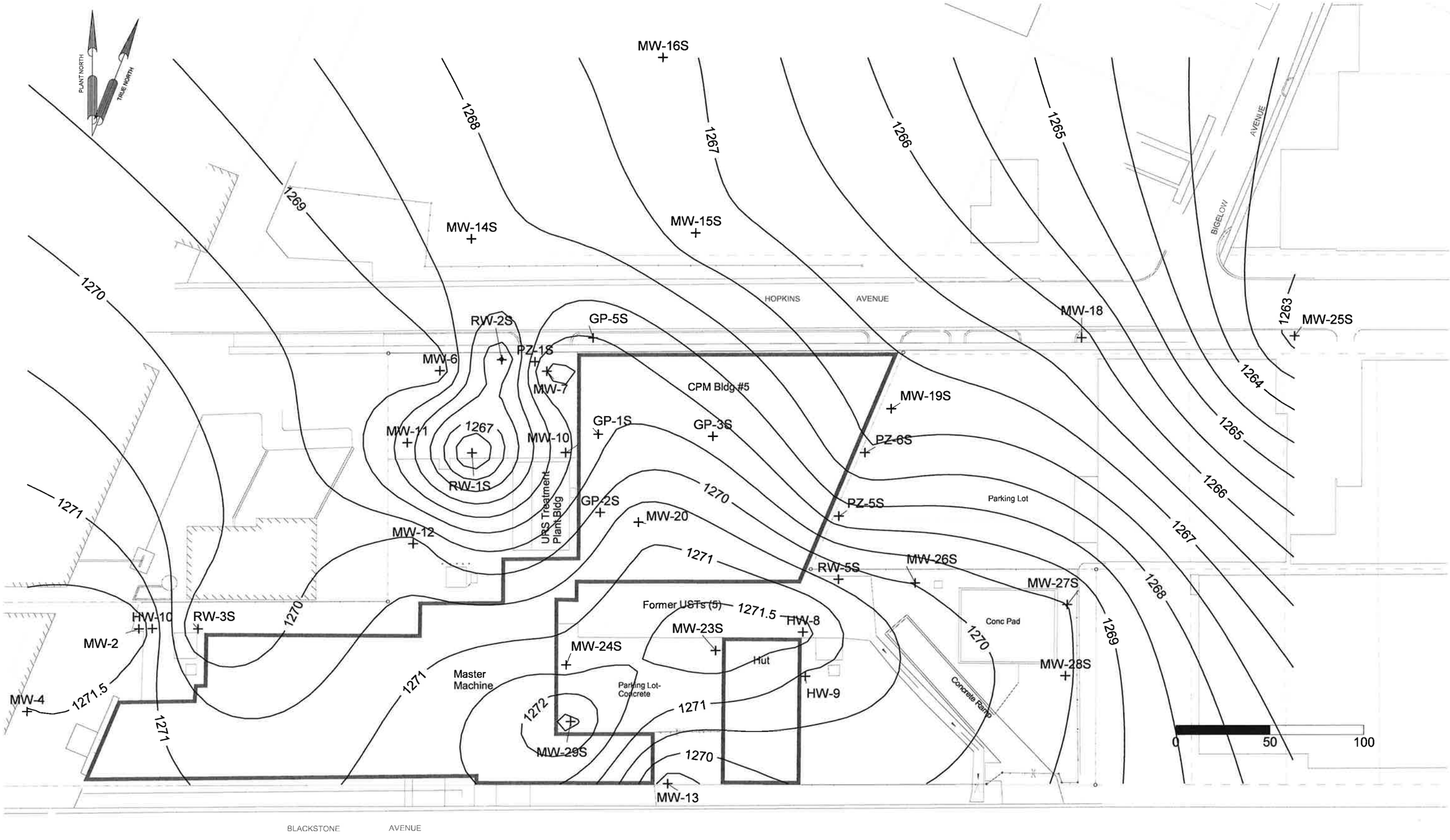
POTW Discharge Limit = 2,130 ug/L Total Toxic Organics (TTOs)

Total TTOs = Sum of detected VOCs considered TTOs for Discharge Limit Criteria contained in 40 CFR 401, part 15, Toxic Pollutants (*note: Acetone and 2-Butanone are not included).
Total VOCs = Sum of all VOCs detected.

Post-Carbon sample results represent system effluent from the secondary carbon vessel (or the third carbon vessel if used) to the POTW.
Post-Carbon sample is a laboratory prepared composite of four (4) grab samples taken at 30-minute intervals.

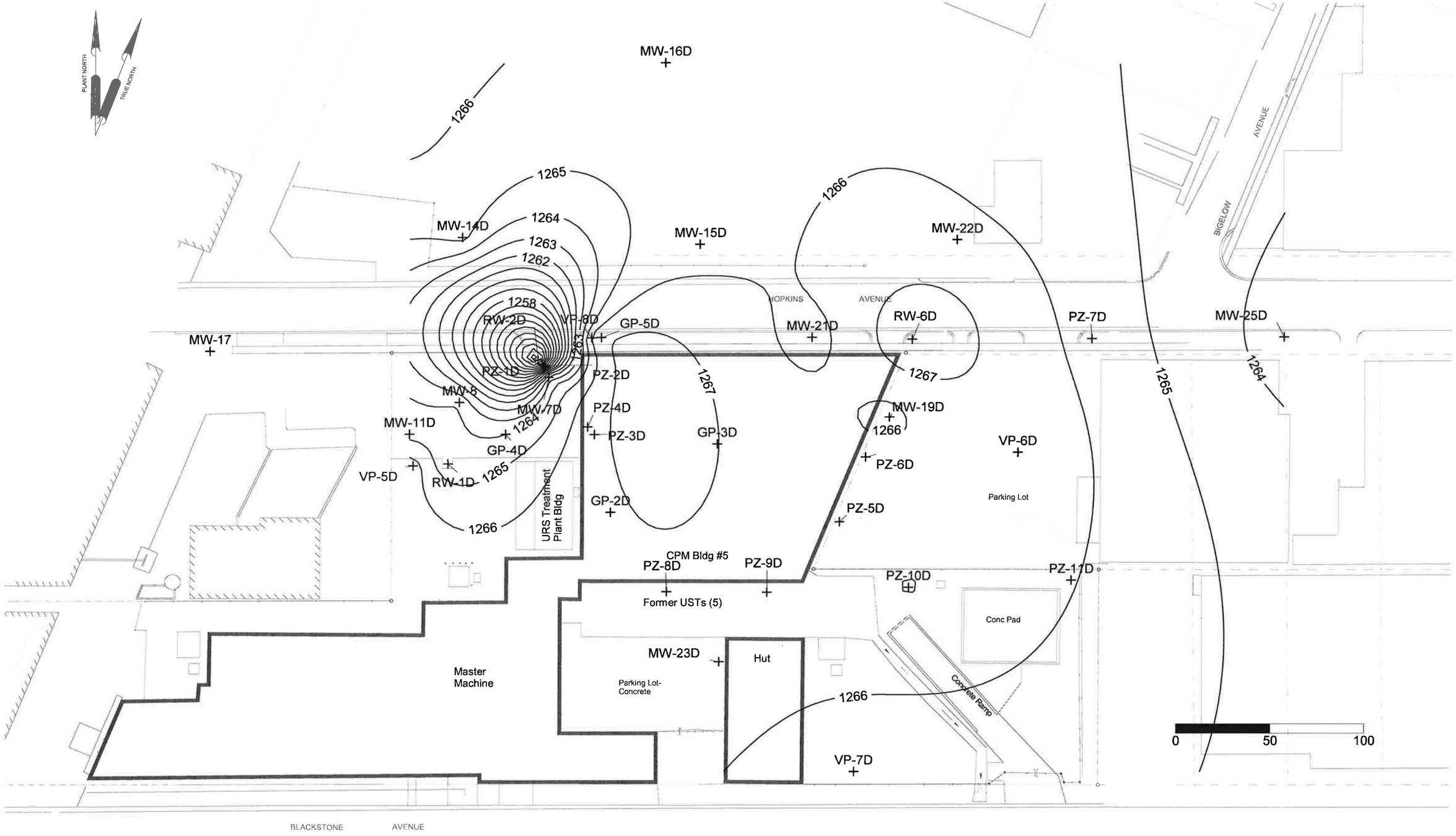
System Carbon was changed out on January 4, 2012 and May 1, 2012.

FIGURES



Essex Specialty Products, Inc.
Essex/Hope Site, Jamestown, NY
URS 41569181

Figure 1- Shallow Groundwater Elevations
March 13, 2012



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Essex/Hope Site, Jamestown, NY
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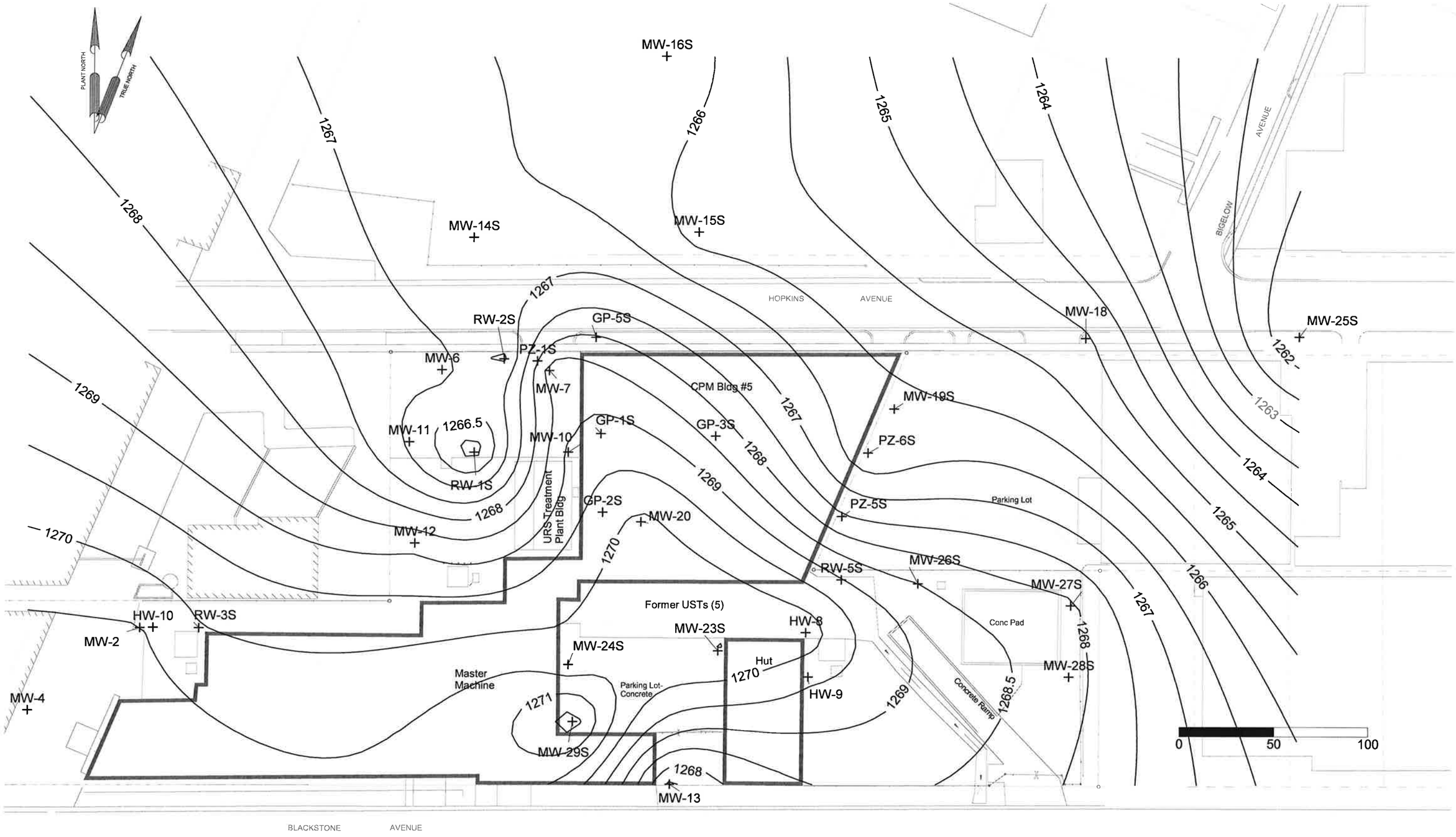
Figure 2- Deep Groundwater Elevations
March 13, 2012

2012 Semi-Annual Performance Monitoring Report



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Essex/Hope Site, Jamestown, NY
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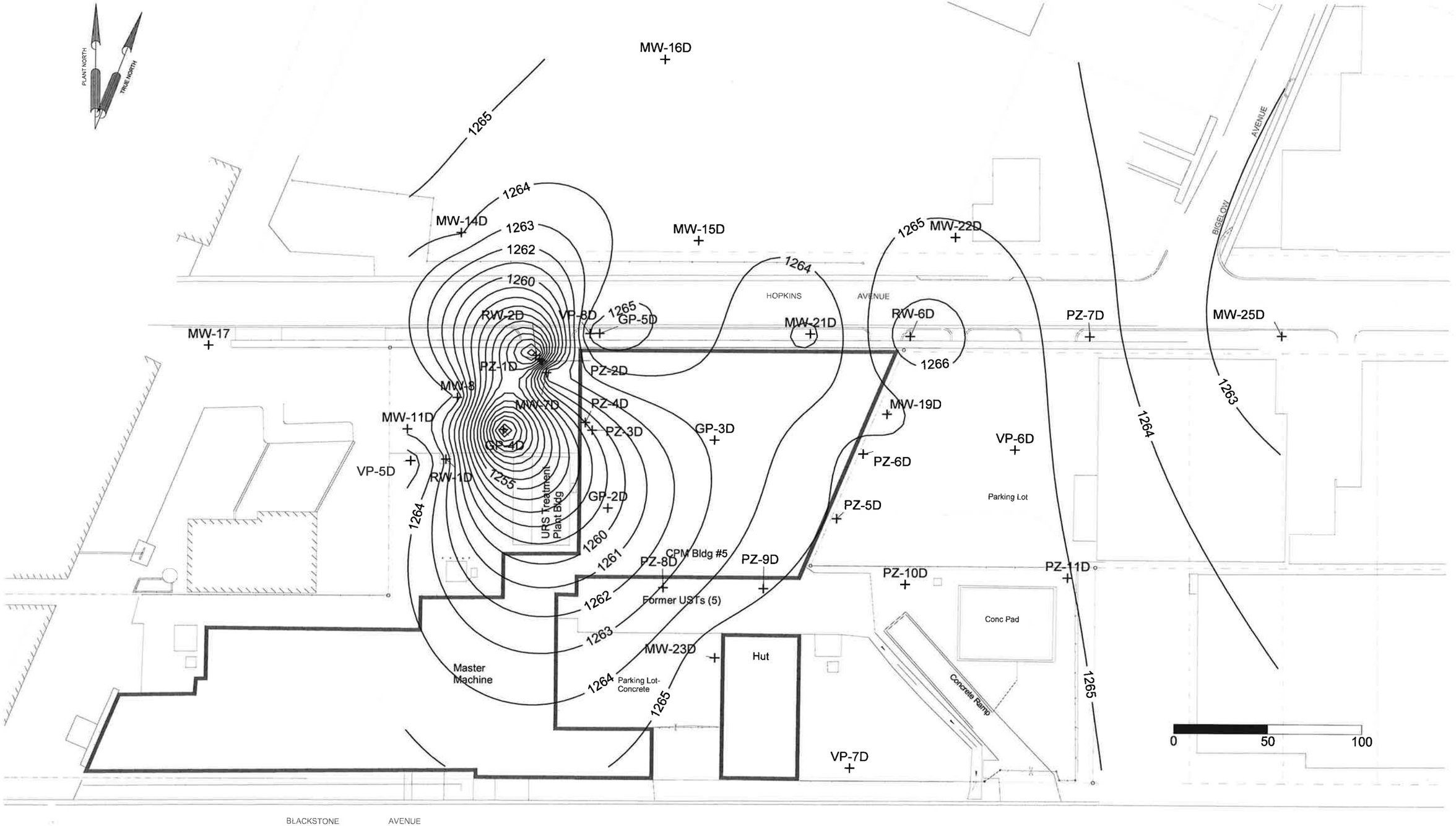
Figure 3- Shallow Groundwater Elevations
June 11, 2012



Essex Specialty Products, Inc.
Essex/Hope Site, Jamestown, NY
URS 41569181

Figure 4- Deep Groundwater Elevations
June 11, 2012

2012 Semi-Annual Performance Monitoring Report

APPENDIX A

Water Level Measurement Data

APPENDIX A-1

2012 Water Level Data
Essex/Hope Site
Jamestown, NY

Monitoring Location	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	March 13, 2012			June 11, 2012		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)	Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
MW-1	9758.7161	10383.6499	1280.48		20.0	Shallow	NA	NA	NA	NA	NA	NA
MW-2	9837.1531	9959.6857	1279.87		16.0	Shallow	8.01	NA	1271.86	9.34	NA	1270.53
MW-4	9792.3277	9900.7631	1281.02	13.0	18.0	Shallow	9.53	NA	1271.49	10.09	NA	1270.93
MW-5	9789.6222	9631.761	1280.82	9.5	20.0	Shallow	NA	NA	NA	NA	NA	NA
MW-6	9977.1197	10118.8762	1277.98			Shallow	8.56	NA	1269.42	10.76	NA	1267.22
MW-7	9976.6467	10175.6797	1277.73	10.0	20.0	Shallow	7.99	NA	1269.74	8.92	NA	1268.81
MW-7D	9973.2593	10174.8524	1277.8	35.0	45.0	Deep	14.78	NA	1263.02	15.56	NA	1262.24
MW-7DD	9970.8547	10176.2698	1277.74	90.0	100.0	Glacial Till	NA	NA	NA	NA	NA	NA
MW-8	9959.6089	10127.6898	1277.97	39.6	49.6	Deep	14.01	NA	1263.96	15.03	NA	1262.94
MW-10	9932.4702	10185.7078	1277.94	8.5	18.5	Shallow	NA	NA	NA	8.81	NA	1269.13
MW-11	9937.9912	10101.7016	1277.75	5.0	15.0	Shallow	9.53	NA	1268.22	10.84	NA	1266.91
MW-11D	9942.3792	10101.1482	1277.85	35.0	45.0	Deep	13.14	NA	1264.71	14.21	NA	1263.64
MW-12	9883.0874	10104.9278	1278.18	4.0	14.0	Shallow	7.94	NA	1270.24	9.32	NA	1268.86
MW-13	9752.0619	10240.2934	1278.12	8.0	18.0	Shallow	8.95	NA	1269.17	10.74	NA	1267.38
MW-14S	10048.7753	10135.5198	1280.25	10.0	20.0	Shallow	12.08	NA	1268.17	13.68	NA	1266.57
MW-14D	10049.5051	10129.1897	1280.01	40.0	50.0	Deep	14.70	NA	1265.31	15.93	NA	1264.08
MW-15S	10051.8272	10254.4862	1279.55	10.0	20.0	Shallow	12.33	NA	1267.22	13.76	NA	1265.79
MW-15D	10045.5611	10255.205	1279.46	34.0	44.0	Deep	13.84	NA	1265.62	15.12	NA	1264.34
MW-16S	10146.7788	10236.8582	1279.32	7.0	17.0	Shallow	12.09	NA	1267.23	12.94	NA	1266.38
MW-16D	10143.9497	10236.6005	1279.05	36.0	46.0	Deep	13.26	NA	1265.79	14.41	NA	1264.64
MW-17	9987.6315	9995.5207	1278.7			Deep	NA	NA	NA	NA	NA	NA
MW-18	9994.6655	10459.2207	1275.49		20.0	Shallow	9.35	NA	1266.14	10.40	NA	1265.09
MW-19S	9956.1454	10358.207	1276.82	9.0	19.0	Shallow	9.50	NA	1267.32	10.66	NA	1266.16
MW-19D	9951.569	10355.9748	1276.21	34.0	44.0	Deep	10.60	NA	1265.61	11.64	NA	1264.57
MW-20	9894.7336	10224.5128	1278.56	6.5	11.5	Shallow	7.70	NA	1270.86	8.44	NA	1270.12
MW-21D	9995.0094	10314.801	1276.12	31.5	41.0	Deep	10.47	NA	1265.65	13.41	NA	1262.71
MW-22D	10048.1687	10391.3548	1276.04	32.5	42.0	Deep	9.78	NA	1266.26	10.91	NA	1265.13
MW-23S	9824.696	10265.6365	1277.85	5.0	14.5	Shallow	6.02	NA	1271.83	7.33	NA	1270.52
MW-23D	9818.3152	10265.6675	1277.89	28.0	37.5	Deep	11.29	NA	1266.60	12.19	NA	1265.70

APPENDIX A-1

2012 Water Level Data
Essex/Hope Site
Jamestown, NY

Monitoring Location	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	March 13, 2012			June 11, 2012		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)	Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
MW-24S	9817.1277	10186.2119	1278.77	5.0	14.5	Shallow	7.55	NA	1271.22	8.61	NA	1270.16
MW-25S	9995.6	10572.35	1272.76	7.0	17.0	Shallow	9.97	NA	1262.79	11.28	NA	1261.48
MW-25D	9995.46	10565.28	1273.41	31.0	41.0	Deep	9.85	NA	1263.56	11.30	NA	1262.11
MW-26S	9861.3519	10371.3241	1279.422	5.0	15.0	Shallow	9.43	NA	1269.99	10.91	NA	1268.51
MW-27S	9849.63382	10452.2197	1278.864	10.0	20.0	Shallow	9.33	NA	1269.53	10.76	NA	1268.10
MW-28S	9810.84281	10451.4089	1279.25	7.0	17.0	Shallow	9.68	NA	1269.57	11.06	NA	1268.19
MW-29S	9786.06533	10188.6419	1280.7	4.0	14.0	Shallow	7.95	NA	1272.75	8.89	NA	1271.81
HW-8	9834.664	10312.0885	1277.81	6.0	16.0	Shallow	6.10	NA	1271.71	7.47	NA	1270.34
HW-9	9810.5264	10313.3873	1280.78	6.0	16.0	Shallow	9.89	NA	1270.89	11.18	NA	1269.60
HW-10	9837.2976	9966.7406	1279.55	7.0	17.0	Shallow	NA	NA	NA	NA	NA	NA
RW-1S	9932.3606	10136.0515	1275.81	10.5	16.0	Shallow	10.09	11.50	1265.72	10.11	11.50	1265.70
RW-1D	9925.9898	10121.7689	1276.34	32.0	57.0	Deep	12.18	NA	1264.16	13.35	NA	1262.99
RW-2S	9982.9501	10151.7112	1276.33	10.0	15.5	Shallow	9.45	12.70	1266.88	9.93	12.70	1266.40
RW-2D	9982.6088	10169.3122	1276.35	27.0	42.0	Deep	29.01	36.90	1247.34	27.91	36.90	1248.44
RW-3S	9837.0894	9990.9663	1278.14	9.0	13.5	Shallow	8.72	8.80	1269.42	8.12	8.80	1270.02
RW-5S	9863.4298	10330.7462	1277.29	7.0	10.0	Shallow	NA	NA	NA	NA	NA	NA
RW-6D	9994.04	10367.91	1277.33			Deep	9.32	NA	1268.01	10.54	NA	1266.79
GP-1S	9942.4384	10203.1085	1278.83	8.0	12.8	Shallow	NA	NA	NA	NA	NA	NA
GP-2S	9899.8775	10204.1632	1278.46	2.6	12.6	Shallow	NA	NA	NA	NA	NA	NA
GP-2D	9899.7358	10207.9807	1278.56	30.0	34.8	Deep	NA	NA	NA	NA	NA	NA
GP-3S	9941.2543	10263.8898	1278.59	4.0	14.0	Shallow	NA	NA	NA	NA	NA	NA
GP-3D	9936.9027	10264.588	1278.62	34.0	38.8	Deep	NA	NA	NA	NA	NA	NA
GP-4S	9940.86*	10154.97*	1278.06	10.8	15.8	Shallow	8.47	NA	1269.59	9.30	NA	1268.76
GP-4D	9942.1743	10152.2232	1277.95	39.0	43.8	Deep	13.94	NA	1264.01	32.74	NA	1245.21
GP-5S	9994.7299	10200.2055	1277.44	7.0	11.8	Shallow	NA	NA	NA	NA	NA	NA
GP-5D	9994.8642	10202.9906	1276.81	36.0	40.8	Deep	NA	NA	NA	NA	NA	NA
PZ-1S	9981.8469	10169.3122	1277.77			Shallow	NA	NA	NA	NA	NA	NA
PZ-1D	9980.4294	10171.2636	1277.64			Deep	NA	NA	NA	NA	NA	NA
PZ-2D	9979.5627	10172.4761	1277.55			Deep	NA	NA	NA	NA	NA	NA

APPENDIX A-1

2012 Water Level Data
Essex/Hope Site
Jamestown, NY

Monitoring Location	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	March 13, 2012			June 11, 2012		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)	Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
PZ-3D	9942.0414	10199.2937	1278.8	20.0	40.0	Deep	NA	NA	NA	NA	NA	NA
PZ-4D	9946.2326	10195.679	1278.71			Deep	NA	NA	NA	NA	NA	NA
PZ-5S	9897.7381	10330.7876	1276.42	5.5	12.0	Shallow	7.69	NA	1268.73	8.88	NA	1267.54
PZ-5D	9894.5731	10329.7148	1276.4	21.0	42.0	Deep	10.06	NA	1266.34	11.29	NA	1265.11
PZ-6S	9932.2079	10344.4895	1276.61	8.5	13.5	Shallow	9.08	NA	1267.53	10.52	NA	1266.09
PZ-6D	9929.8004	10343.4742	1276.62	25.5	45.5	Deep	10.21	NA	1266.41	11.16	NA	1265.46
PZ-7D	9994.5452	10463.2465	1275.68	22.0	42.0	Deep	10.08	NA	1265.60	11.33	NA	1264.35
PZ-8D	9856.4908	10237.8118	1278.12	21.0	41.0	Deep	NA	NA	NA	NA	NA	NA
PZ-9D	9856.2398	10291.1658	1277.3	19.0	39.0	Deep	NA	NA	NA	NA	NA	NA
PZ-10D	9858.9821	10366.4236	1277.52	26.5	46.5	Deep	10.46	NA	1267.06	11.73	NA	1265.79
PZ-11D	9863.0677	10452.8989	1276.63	21.3	41.3	Deep	NA	NA	NA	NA	NA	NA
VP-5D	9925.1052	10103.0141	1277.88	12.5	34.3	Deep	11.37	NA	1266.51	12.31	NA	1265.57
VP-6S	9928.8123	10423.4628	1276.48	18.3	24.0	Deep upper gravel	9.69	NA	1266.79	10.83	NA	1265.65
VP-6D	9932.5744	10424.1378	1276.6	29.5	39.5	Deep	9.83	NA	1266.77	11.31	NA	1265.29
VP-7D	9758.4881	10337.7133	1278.64	20.4	39.3	Deep	13.45	NA	1265.19	13.07	NA	1265.57
VP-8D	9994.6178	10197.8133	1277.15	20.0	39.0	Deep	10.72	NA	1266.43	11.63	NA	1265.52

Notes:

NM = Not Measure
NA = Not Applicable

RW-4S, RW-5S taken offline in October 2002 for UST Removal.
Wells RW-4S, TW-01, and HW-7 destroyed during UST removal operations.

Appendix B

Laboratory Certificates of Analysis

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 27, 2012

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

RE: Project: 41569181.10000 Essex-Hope
Pace Project No.: 3071297

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 41569181.10000 Essex-Hope
Pace Project No.: 3071297

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI 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/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia VELAP (Cert # 460198)
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
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(724)850-5600

ANALYTICAL RESULTS

Project: 41569181.10000 Essex-Hope
Pace Project No.: 3071297

Sample: RW-2D **Lab ID: 3071297001** Collected: 06/12/12 13:55 Received: 06/13/12 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		06/23/12 13:36	67-64-1	
Benzene	**10**	ug/L	1.0	1		06/23/12 13:36	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/23/12 13:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/23/12 13:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/23/12 13:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/23/12 13:36	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/23/12 13:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/23/12 13:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/23/12 13:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/23/12 13:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/23/12 13:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/23/12 13:36	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/23/12 13:36	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/23/12 13:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/23/12 13:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/23/12 13:36	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/23/12 13:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/23/12 13:36	107-06-2	
1,1-Dichloroethene	**27.4**	ug/L	5.0	1		06/23/12 13:36	75-35-4	
cis-1,2-Dichloroethene	**7660**	ug/L	100	20		06/23/12 14:01	156-59-2	
trans-1,2-Dichloroethene	**165**	ug/L	5.0	1		06/23/12 13:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/23/12 13:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/12 13:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/12 13:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/23/12 13:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/23/12 13:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/23/12 13:36	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		06/23/12 13:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/23/12 13:36	108-10-1	
Styrene	ND	ug/L	5.0	1		06/23/12 13:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/23/12 13:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/23/12 13:36	127-18-4	
Toluene	ND	ug/L	5.0	1		06/23/12 13:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/23/12 13:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/23/12 13:36	79-00-5	
Trichloroethene	**1040**	ug/L	100	20		06/23/12 14:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/23/12 13:36	75-69-4	
Vinyl chloride	**837**	ug/L	20.0	20		06/23/12 14:01	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/23/12 13:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/23/12 13:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/23/12 13:36	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	70-130	1		06/23/12 13:36	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/23/12 13:36	2037-26-5	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 41569181.10000 Essex-Hope
Pace Project No.: 3071297

Sample: RW-2S **Lab ID: 3071297002** Collected: 06/12/12 14:00 Received: 06/13/12 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		06/23/12 15:15	67-64-1	
Benzene	ND	ug/L	1.0	1		06/23/12 15:15	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/23/12 15:15	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/23/12 15:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/23/12 15:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/23/12 15:15	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/23/12 15:15	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/23/12 15:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/23/12 15:15	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/23/12 15:15	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/23/12 15:15	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/23/12 15:15	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/23/12 15:15	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/23/12 15:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/23/12 15:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/23/12 15:15	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/23/12 15:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/23/12 15:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/23/12 15:15	75-35-4	
cis-1,2-Dichloroethene	**42.0**	ug/L	5.0	1		06/23/12 15:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/23/12 15:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/23/12 15:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/12 15:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/12 15:15	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/23/12 15:15	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/23/12 15:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/23/12 15:15	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		06/23/12 15:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/23/12 15:15	108-10-1	
Styrene	ND	ug/L	5.0	1		06/23/12 15:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/23/12 15:15	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/23/12 15:15	127-18-4	
Toluene	ND	ug/L	5.0	1		06/23/12 15:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/23/12 15:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/23/12 15:15	79-00-5	
Trichloroethene	**10.8**	ug/L	5.0	1		06/23/12 15:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/23/12 15:15	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		06/23/12 15:15	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/23/12 15:15	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/23/12 15:15	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		06/23/12 15:15	460-00-4	
1,2-Dichloroethane-d4 (S)	127	%	70-130	1		06/23/12 15:15	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/23/12 15:15	2037-26-5	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 41569181.10000 Essex-Hope
Pace Project No.: 3071297

Sample: RW-3S **Lab ID: 3071297003** Collected: 06/12/12 14:05 Received: 06/13/12 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		06/23/12 13:12	67-64-1	
Benzene	**1.1**	ug/L	1.0	1		06/23/12 13:12	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/23/12 13:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/23/12 13:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/23/12 13:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/23/12 13:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/23/12 13:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/23/12 13:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/23/12 13:12	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/23/12 13:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/23/12 13:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/23/12 13:12	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/23/12 13:12	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/23/12 13:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/23/12 13:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/23/12 13:12	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/23/12 13:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/23/12 13:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/23/12 13:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/23/12 13:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/23/12 13:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/23/12 13:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/12 13:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/12 13:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/23/12 13:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/23/12 13:12	591-78-6	
Isopropylbenzene (Cumene)	**4.2**	ug/L	1.0	1		06/23/12 13:12	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		06/23/12 13:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/23/12 13:12	108-10-1	
Styrene	ND	ug/L	5.0	1		06/23/12 13:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/23/12 13:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/23/12 13:12	127-18-4	
Toluene	ND	ug/L	5.0	1		06/23/12 13:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/23/12 13:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/23/12 13:12	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/23/12 13:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/23/12 13:12	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		06/23/12 13:12	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/23/12 13:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/23/12 13:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/23/12 13:12	460-00-4	
1,2-Dichloroethane-d4 (S)	124	%	70-130	1		06/23/12 13:12	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/23/12 13:12	2037-26-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: 41569181.10000 Essex-Hope
Pace Project No.: 3071297

Sample: RW-1S **Lab ID: 3071297004** Collected: 06/12/12 14:10 Received: 06/13/12 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		06/23/12 14:26	67-64-1	
Benzene	ND	ug/L	1.0	1		06/23/12 14:26	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/23/12 14:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/23/12 14:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/23/12 14:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/23/12 14:26	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/23/12 14:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/23/12 14:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/23/12 14:26	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/23/12 14:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/23/12 14:26	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/23/12 14:26	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/23/12 14:26	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/23/12 14:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/23/12 14:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/23/12 14:26	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/23/12 14:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/23/12 14:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/23/12 14:26	75-35-4	
cis-1,2-Dichloroethene	**459**	ug/L	50.0	10		06/23/12 14:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/23/12 14:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/23/12 14:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/12 14:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/12 14:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/23/12 14:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/23/12 14:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/23/12 14:26	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		06/23/12 14:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/23/12 14:26	108-10-1	
Styrene	ND	ug/L	5.0	1		06/23/12 14:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/23/12 14:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/23/12 14:26	127-18-4	
Toluene	ND	ug/L	5.0	1		06/23/12 14:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/23/12 14:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/23/12 14:26	79-00-5	
Trichloroethene	**294**	ug/L	5.0	1		06/23/12 14:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/23/12 14:26	75-69-4	
Vinyl chloride	**16.9**	ug/L	1.0	1		06/23/12 14:26	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/23/12 14:26	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/23/12 14:26	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		06/23/12 14:26	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130	1		06/23/12 14:26	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/23/12 14:26	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 41569181.10000 Essex-Hope
Pace Project No.: 3071297

QC Batch: MSV/13075 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3071297001, 3071297002, 3071297003, 3071297004

METHOD BLANK: 455358 Matrix: Water
Associated Lab Samples: 3071297001, 3071297002, 3071297003, 3071297004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/23/12 09:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/23/12 09:05	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/23/12 09:05	
1,1-Dichloroethane	ug/L	ND	5.0	06/23/12 09:05	
1,1-Dichloroethene	ug/L	ND	5.0	06/23/12 09:05	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/23/12 09:05	
1,2-Dichloroethane	ug/L	ND	5.0	06/23/12 09:05	
1,2-Dichloropropane	ug/L	ND	5.0	06/23/12 09:05	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/23/12 09:05	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/23/12 09:05	
2-Butanone (MEK)	ug/L	ND	10.0	06/23/12 09:05	
2-Hexanone	ug/L	ND	10.0	06/23/12 09:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/23/12 09:05	
Acetone	ug/L	ND	10.0	06/23/12 09:05	
Benzene	ug/L	ND	1.0	06/23/12 09:05	
Bromodichloromethane	ug/L	ND	5.0	06/23/12 09:05	
Bromoform	ug/L	ND	5.0	06/23/12 09:05	
Bromomethane	ug/L	ND	5.0	06/23/12 09:05	
Carbon disulfide	ug/L	ND	5.0	06/23/12 09:05	
Carbon tetrachloride	ug/L	ND	5.0	06/23/12 09:05	
Chlorobenzene	ug/L	ND	5.0	06/23/12 09:05	
Chloroethane	ug/L	ND	5.0	06/23/12 09:05	
Chloroform	ug/L	ND	5.0	06/23/12 09:05	
Chloromethane	ug/L	ND	5.0	06/23/12 09:05	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/23/12 09:05	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/23/12 09:05	
Dibromochloromethane	ug/L	ND	5.0	06/23/12 09:05	
Ethylbenzene	ug/L	ND	5.0	06/23/12 09:05	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/23/12 09:05	
m&p-Xylene	ug/L	ND	5.0	06/23/12 09:05	
Methylene Chloride	ug/L	ND	5.0	06/23/12 09:05	
o-Xylene	ug/L	ND	5.0	06/23/12 09:05	
Styrene	ug/L	ND	5.0	06/23/12 09:05	
Tetrachloroethene	ug/L	ND	5.0	06/23/12 09:05	
Toluene	ug/L	ND	5.0	06/23/12 09:05	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/23/12 09:05	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/23/12 09:05	
Trichloroethene	ug/L	ND	5.0	06/23/12 09:05	
Trichlorofluoromethane	ug/L	ND	5.0	06/23/12 09:05	
Vinyl chloride	ug/L	ND	1.0	06/23/12 09:05	
1,2-Dichloroethane-d4 (S)	%	121	70-130	06/23/12 09:05	
4-Bromofluorobenzene (S)	%	100	70-130	06/23/12 09:05	
Toluene-d8 (S)	%	102	70-130	06/23/12 09:05	

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 41569181.10000 Essex-Hope
Pace Project No.: 3071297

LABORATORY CONTROL SAMPLE: 455359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.4	102	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	17.8	89	64.6-121	
1,1,2-Trichloroethane	ug/L	20	18.8	94	75.6-120	
1,1-Dichloroethane	ug/L	20	23.2	116	68.5-122	
1,1-Dichloroethene	ug/L	20	23.4	117	57.1-120	
1,2-Dichlorobenzene	ug/L	20	18.7	94	69.6-120	
1,2-Dichloroethane	ug/L	20	21.4	107	60.5-133	
1,2-Dichloropropane	ug/L	20	21.6	108	71-120	
1,3-Dichlorobenzene	ug/L	20	18.7	94	68.4-121	
1,4-Dichlorobenzene	ug/L	20	18.2	91	68.5-123	
2-Butanone (MEK)	ug/L	20	25.5	127	55.7-138	
2-Hexanone	ug/L	20	24.7	124	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	25.2	126	64.5-121	L1
Acetone	ug/L	20	24.3	121	57.6-168	
Benzene	ug/L	20	20.5	103	69.8-120	
Bromodichloromethane	ug/L	20	19.9	99	66.5-120	
Bromoform	ug/L	20	17.6	88	61.1-120	
Bromomethane	ug/L	20	26.2	131	10.6-200	
Carbon disulfide	ug/L	20	25.9	130	60.2-122	L1
Carbon tetrachloride	ug/L	20	20.4	102	60.1-127	
Chlorobenzene	ug/L	20	19.2	96	72-120	
Chloroethane	ug/L	20	27.3	137	36.8-142	
Chloroform	ug/L	20	20.6	103	69-122	
Chloromethane	ug/L	20	28.2	141	37.2-129	CU,L3
cis-1,2-Dichloroethene	ug/L	20	23.0	115	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	19.3	96	74.3-120	
Dibromochloromethane	ug/L	20	18.8	94	66.1-120	
Ethylbenzene	ug/L	20	19.1	95	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	22.7	113	68.3-129	
m&p-Xylene	ug/L	40	40.1	100	70.4-130	
Methylene Chloride	ug/L	20	19.4	97	61.5-125	
o-Xylene	ug/L	20	19.2	96	70.6-127	
Styrene	ug/L	20	20.0	100	69.9-120	
Tetrachloroethene	ug/L	20	17.0	85	63.4-121	
Toluene	ug/L	20	20.5	103	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	21.7	109	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	19.3	96	71-120	
Trichloroethene	ug/L	20	17.5	88	65.9-120	
Trichlorofluoromethane	ug/L	20	26.4	132	44.8-137	
Vinyl chloride	ug/L	20	24.1	120	51-127	
1,2-Dichloroethane-d4 (S)	%			114	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: 41569181.10000 Essex-Hope
Pace Project No.: 3071297

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 455360 455361

Parameter	Units	3071348009 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	21.1	17.8	105	89	64.3-127	17	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.3	16.1	96	81	64.6-121	18	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.7	17.1	99	86	75.6-120	14	
1,1-Dichloroethane	ug/L	ND	20	20	22.7	18.4	113	92	68.5-122	21	
1,1-Dichloroethene	ug/L	ND	20	20	21.0	18.4	105	92	57.1-120	13	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.5	17.4	92	87	69.6-120	6	
1,2-Dichloroethane	ug/L	ND	20	20	19.8	16.6	99	83	60.5-133	18	
1,2-Dichloropropane	ug/L	ND	20	20	20.7	17.6	104	88	71-120	16	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.6	16.9	88	85	68.4-121	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.9	16.8	90	84	68.5-123	7	
2-Butanone (MEK)	ug/L	ND	20	20	24.5	19.8	122	99	55.7-138	21	
2-Hexanone	ug/L	ND	20	20	26.8	21.9	134	110	67-133	20	M0
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	26.7	21.9	133	109	64.5-121	20	M0
Acetone	ug/L	ND	20	20	24.0	22.7	110	104	57.6-168	6	
Benzene	ug/L	ND	20	20	21.8	18.4	108	91	69.8-120	17	
Bromodichloromethane	ug/L	ND	20	20	19.4	16.3	97	82	66.5-120	17	
Bromoform	ug/L	ND	20	20	16.3	14.7	81	73	61.1-120	11	
Bromomethane	ug/L	ND	20	20	22.0	20.3	110	102	10.6-200	8	
Carbon disulfide	ug/L	ND	20	20	27.1	26.1	135	130	60.2-122	4	M0
Carbon tetrachloride	ug/L	ND	20	20	19.6	17.1	98	86	60.1-127	13	
Chlorobenzene	ug/L	ND	20	20	19.3	17.8	96	89	72-120	8	
Chloroethane	ug/L	ND	20	20	27.3	27.1	137	136	36.8-142	.7	
Chloroform	ug/L	ND	20	20	20.6	17.2	103	86	69-122	18	
Chloromethane	ug/L	ND	20	20	25.9	28.0	129	140	37.2-129	8	M0
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.5	18.1	108	91	69.5-123	17	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.3	16.5	96	83	74.3-120	15	
Dibromochloromethane	ug/L	ND	20	20	18.3	16.2	92	81	66.1-120	12	
Ethylbenzene	ug/L	ND	20	20	20.2	18.3	101	91	70.9-124	10	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	19.8	105	99	68.3-129	6	
m&p-Xylene	ug/L	ND	40	40	39.7	36.9	99	92	70.4-130	7	
Methylene Chloride	ug/L	ND	20	20	18.3	14.9	92	75	61.5-125	20	
o-Xylene	ug/L	ND	20	20	20.1	18.6	100	93	70.6-127	8	
Styrene	ug/L	ND	20	20	19.2	18.3	96	91	69.9-120	5	
Tetrachloroethene	ug/L	ND	20	20	18.6	17.5	93	87	63.4-121	6	
Toluene	ug/L	ND	20	20	21.1	18.8	105	94	71.5-120	11	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.5	17.0	103	85	64.1-120	19	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.3	16.5	96	83	71-120	15	
Trichloroethene	ug/L	ND	20	20	19.5	17.5	98	88	65.9-120	11	
Trichlorofluoromethane	ug/L	ND	20	20	26.4	26.0	132	130	44.8-137	2	
Vinyl chloride	ug/L	ND	20	20	28.1	28.2	140	141	51-127	.7	M0
1,2-Dichloroethane-d4 (S)	%						99	95	70-130		
4-Bromofluorobenzene (S)	%						98	97	70-130		
Toluene-d8 (S)	%						101	101	70-130		

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 41569181.10000 Essex-Hope
Pace Project No.: 3071297

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CU	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
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.

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 41569181.10000 Essex-Hope
Pace Project No.: 3071297

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3071297001	**RW-2D**	EPA 8260	MSV/13075		
3071297002	**RW-2S**	EPA 8260	MSV/13075		
3071297003	**RW-3S**	EPA 8260	MSV/13075		
3071297004	**RW-1S**	EPA 8260	MSV/13075		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1492352

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 4, 501 HOLIDAY DR. STE 300, PITTSBURGH, PA 15220
Email To:
Phone: 4125034700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARY DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41526181
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41526181.10000

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	RW-2D	WT	G			6/12/12	1355		3				X						X		001
2	RW-2S						1400		3				X						X		002
3	RW-3S						1405		3				X						X		003
4	RW-1S					6/12/12	1410		3				X						X		004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

3071297

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SEMI-ANNUAL RW SAMPLING - NOTE: RW-6D SAMPLED W/ DOST-ISCO ROUND 3	[signature] URS	6-12-12	~1615	FedEx Air	6.12.12	~1615				
				[signature]	6/13/12	0930	4.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6-12-12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 307297

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

Tracking #: 872640756919

Optional
Proj. Due Date:
Proj. Name:

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

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

Thermometer Used (5) 6 7 Type of Ice: ~~Wet~~ Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 4.3 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: VER 6/13/12

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: WT				
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 VER / 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:** 6/14/12

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)

Pace Analytical

Project Number: 3071277

Client Name: WRS

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
01	WD													N										
04	↓													↓										

SCURF Back (C016-4 15May2012).xls

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 41569123/Essex-Hope
Pace Project No.: 3071263

Sample: RW-6D **Lab ID: 3071263007** Collected: 06/12/12 13:30 Received: 06/13/12 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010B		Preparation Method: EPA 3005					
Iron	**11900**	ug/L	70.0	1	06/14/12 15:49	06/15/12 13:31	7439-89-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	**20600**	ug/L	2000	200		06/18/12 16:50	67-64-1	
Benzene	**23.9**	ug/L	1.0	1		06/15/12 17:01	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/15/12 17:01	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/15/12 17:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/15/12 17:01	74-83-9	
2-Butanone (MEK)	**259**	ug/L	10.0	1		06/15/12 17:01	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/15/12 17:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/15/12 17:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/15/12 17:01	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/15/12 17:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/15/12 17:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/15/12 17:01	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/15/12 17:01	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 17:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 17:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 17:01	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/15/12 17:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/15/12 17:01	107-06-2	
1,1-Dichloroethene	**28.9**	ug/L	5.0	1		06/15/12 17:01	75-35-4	
cis-1,2-Dichloroethene	**16700**	ug/L	1000	200		06/18/12 16:50	156-59-2	
trans-1,2-Dichloroethene	**181**	ug/L	5.0	1		06/15/12 17:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/15/12 17:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/12 17:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/12 17:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/15/12 17:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/15/12 17:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/15/12 17:01	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		06/15/12 17:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/15/12 17:01	108-10-1	
Styrene	ND	ug/L	5.0	1		06/15/12 17:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/15/12 17:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/15/12 17:01	127-18-4	
Toluene	ND	ug/L	5.0	1		06/15/12 17:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/15/12 17:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/15/12 17:01	79-00-5	
Trichloroethene	**3900**	ug/L	1000	200		06/18/12 16:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/15/12 17:01	75-69-4	
Vinyl chloride	**3390**	ug/L	200	200		06/18/12 16:50	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/15/12 17:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/15/12 17:01	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		06/15/12 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		06/15/12 17:01	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/15/12 17:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 41569123/Essex-Hope
Pace Project No.: 3071263

Sample: RW-6D **Lab ID: 3071263007** Collected: 06/12/12 13:30 Received: 06/13/12 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**477**	mg/L	10.0	1		06/15/12 17:30		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe D#4							
Iron, Ferric	**8.9**	mg/L	0.10	1		06/27/12 14:50	7439-89-6	N2
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4							
Iron, Ferrous	**2.9**	mg/L	0.10	1		06/13/12 14:51		H1,H6
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	1.0	1		06/14/12 21:02	18496-25-8	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	ND	mg/L	10.0	1		06/19/12 11:39	14808-79-8	

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January 23, 2012

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

RE: Project: 41569181.100000 Essex/Hope
Pace Project No.: 3061307

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on January 18, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Pace Analytical Services, Inc.
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Greensburg, PA 15601
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CERTIFICATIONS

Project: 41569181.100000 Essex/Hope
Pace Project No.: 3061307

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
Virginia VELAP (Cert # 460198)
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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ANALYTICAL RESULTS

Project: 41569181.100000 Essex/Hope
Pace Project No.: 3061307

Sample: PRE-CARB **Lab ID: 3061307001** Collected: 01/17/12 11:20 Received: 01/18/12 09:45 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		01/20/12 15:19	67-64-1	
Benzene	**4.0**	ug/L	1.0	1		01/20/12 15:19	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		01/20/12 15:19	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/20/12 15:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/20/12 15:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/20/12 15:19	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		01/20/12 15:19	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/20/12 15:19	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/20/12 15:19	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/20/12 15:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/20/12 15:19	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/20/12 15:19	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		01/20/12 15:19	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/20/12 15:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/20/12 15:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/20/12 15:19	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/20/12 15:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/20/12 15:19	107-06-2	
1,1-Dichloroethene	**10.9**	ug/L	5.0	1		01/20/12 15:19	75-35-4	
cis-1,2-Dichloroethene	**2800**	ug/L	100	20		01/20/12 15:43	156-59-2	
trans-1,2-Dichloroethene	**56.2**	ug/L	5.0	1		01/20/12 15:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/20/12 15:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/20/12 15:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/20/12 15:19	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/20/12 15:19	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		01/20/12 15:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/20/12 15:19	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		01/20/12 15:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/20/12 15:19	108-10-1	
Styrene	ND	ug/L	5.0	1		01/20/12 15:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/20/12 15:19	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/20/12 15:19	127-18-4	
Toluene	ND	ug/L	5.0	1		01/20/12 15:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/20/12 15:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/20/12 15:19	79-00-5	
Trichloroethene	**476**	ug/L	100	20		01/20/12 15:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/20/12 15:19	75-69-4	
Vinyl chloride	**346**	ug/L	1.0	1		01/20/12 15:19	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		01/20/12 15:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		01/20/12 15:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		01/20/12 15:19	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/20/12 15:19	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		01/20/12 15:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 41569181.100000 Essex/Hope
Pace Project No.: 3061307

Sample: PRIMARY-EFF **Lab ID: 3061307002** Collected: 01/17/12 11:25 Received: 01/18/12 09:45 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		01/20/12 16:07	67-64-1	
Benzene	ND	ug/L	1.0	1		01/20/12 16:07	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		01/20/12 16:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/20/12 16:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/20/12 16:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/20/12 16:07	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		01/20/12 16:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/20/12 16:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/20/12 16:07	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/20/12 16:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/20/12 16:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/20/12 16:07	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		01/20/12 16:07	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/20/12 16:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/20/12 16:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/20/12 16:07	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/20/12 16:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/20/12 16:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/20/12 16:07	75-35-4	
cis-1,2-Dichloroethene	**12.5**	ug/L	5.0	1		01/20/12 16:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/20/12 16:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/20/12 16:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/20/12 16:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/20/12 16:07	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/20/12 16:07	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		01/20/12 16:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/20/12 16:07	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		01/20/12 16:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/20/12 16:07	108-10-1	
Styrene	ND	ug/L	5.0	1		01/20/12 16:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/20/12 16:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/20/12 16:07	127-18-4	
Toluene	ND	ug/L	5.0	1		01/20/12 16:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/20/12 16:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/20/12 16:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/20/12 16:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/20/12 16:07	75-69-4	
Vinyl chloride	**564**	ug/L	20.0	20		01/20/12 16:31	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		01/20/12 16:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		01/20/12 16:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	107	%	70-130	1		01/20/12 16:07	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/20/12 16:07	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		01/20/12 16:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 41569181.100000 Essex/Hope
Pace Project No.: 3061307

Sample: POST-CARB **Lab ID: 3061307003** Collected: 01/17/12 13:00 Received: 01/18/12 09:45 Matrix: Water

Comments: • Grab samples taken at 11:30, 12:00, 12:30, and 13:00. Composited in laboratory prior to 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		01/20/12 16:56	67-64-1	
Benzene	ND	ug/L	1.0	1		01/20/12 16:56	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		01/20/12 16:56	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/20/12 16:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/20/12 16:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/20/12 16:56	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		01/20/12 16:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/20/12 16:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/20/12 16:56	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/20/12 16:56	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/20/12 16:56	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/20/12 16:56	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		01/20/12 16:56	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/20/12 16:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/20/12 16:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/20/12 16:56	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/20/12 16:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/20/12 16:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/20/12 16:56	75-35-4	
cis-1,2-Dichloroethene	**255**	ug/L	5.0	1		01/20/12 16:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/20/12 16:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/20/12 16:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/20/12 16:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/20/12 16:56	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/20/12 16:56	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		01/20/12 16:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/20/12 16:56	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		01/20/12 16:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/20/12 16:56	108-10-1	
Styrene	ND	ug/L	5.0	1		01/20/12 16:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/20/12 16:56	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/20/12 16:56	127-18-4	
Toluene	ND	ug/L	5.0	1		01/20/12 16:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/20/12 16:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/20/12 16:56	79-00-5	
Trichloroethene	**7.2**	ug/L	5.0	1		01/20/12 16:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/20/12 16:56	75-69-4	
Vinyl chloride	**119**	ug/L	1.0	1		01/20/12 16:56	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		01/20/12 16:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		01/20/12 16:56	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	108	%	70-130	1		01/20/12 16:56	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/20/12 16:56	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		01/20/12 16:56	2037-26-5	

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 41569181.100000 Essex/Hope
Pace Project No.: 3061307

Sample: TB-01 **Lab ID: 3061307004** Collected: 01/17/12 00:01 Received: 01/18/12 09:45 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		01/20/12 12:53	67-64-1	
Benzene	ND	ug/L	1.0	1		01/20/12 12:53	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		01/20/12 12:53	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/20/12 12:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/20/12 12:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/20/12 12:53	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		01/20/12 12:53	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/20/12 12:53	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/20/12 12:53	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/20/12 12:53	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/20/12 12:53	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/20/12 12:53	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		01/20/12 12:53	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/20/12 12:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/20/12 12:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/20/12 12:53	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/20/12 12:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/20/12 12:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/20/12 12:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/20/12 12:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/20/12 12:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/20/12 12:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/20/12 12:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/20/12 12:53	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/20/12 12:53	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		01/20/12 12:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/20/12 12:53	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		01/20/12 12:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/20/12 12:53	108-10-1	
Styrene	ND	ug/L	5.0	1		01/20/12 12:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/20/12 12:53	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/20/12 12:53	127-18-4	
Toluene	ND	ug/L	5.0	1		01/20/12 12:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/20/12 12:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/20/12 12:53	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/20/12 12:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/20/12 12:53	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		01/20/12 12:53	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		01/20/12 12:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		01/20/12 12:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	110	%	70-130	1		01/20/12 12:53	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/20/12 12:53	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		01/20/12 12:53	2037-26-5	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 41569181.100000 Essex/Hope
Pace Project No.: 3061307

QC Batch: MSV/11731 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3061307001, 3061307002, 3061307003, 3061307004

METHOD BLANK: 394067 Matrix: Water
Associated Lab Samples: 3061307001, 3061307002, 3061307003, 3061307004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	01/20/12 12:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	01/20/12 12:05	
1,1,2-Trichloroethane	ug/L	ND	5.0	01/20/12 12:05	
1,1-Dichloroethane	ug/L	ND	5.0	01/20/12 12:05	
1,1-Dichloroethene	ug/L	ND	5.0	01/20/12 12:05	
1,2-Dichlorobenzene	ug/L	ND	5.0	01/20/12 12:05	
1,2-Dichloroethane	ug/L	ND	5.0	01/20/12 12:05	
1,2-Dichloropropane	ug/L	ND	5.0	01/20/12 12:05	
1,3-Dichlorobenzene	ug/L	ND	5.0	01/20/12 12:05	
1,4-Dichlorobenzene	ug/L	ND	5.0	01/20/12 12:05	
2-Butanone (MEK)	ug/L	ND	10.0	01/20/12 12:05	
2-Hexanone	ug/L	ND	10.0	01/20/12 12:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/20/12 12:05	
Acetone	ug/L	ND	10.0	01/20/12 12:05	
Benzene	ug/L	ND	1.0	01/20/12 12:05	
Bromodichloromethane	ug/L	ND	5.0	01/20/12 12:05	
Bromoform	ug/L	ND	5.0	01/20/12 12:05	
Bromomethane	ug/L	ND	5.0	01/20/12 12:05	
Carbon disulfide	ug/L	ND	5.0	01/20/12 12:05	
Carbon tetrachloride	ug/L	ND	5.0	01/20/12 12:05	
Chlorobenzene	ug/L	ND	5.0	01/20/12 12:05	
Chloroethane	ug/L	ND	5.0	01/20/12 12:05	
Chloroform	ug/L	ND	5.0	01/20/12 12:05	
Chloromethane	ug/L	ND	5.0	01/20/12 12:05	
cis-1,2-Dichloroethene	ug/L	ND	5.0	01/20/12 12:05	
cis-1,3-Dichloropropene	ug/L	ND	5.0	01/20/12 12:05	
Dibromochloromethane	ug/L	ND	5.0	01/20/12 12:05	
Ethylbenzene	ug/L	ND	5.0	01/20/12 12:05	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	01/20/12 12:05	
m&p-Xylene	ug/L	ND	5.0	01/20/12 12:05	
Methylene Chloride	ug/L	ND	5.0	01/20/12 12:05	
o-Xylene	ug/L	ND	5.0	01/20/12 12:05	
Styrene	ug/L	ND	5.0	01/20/12 12:05	
Tetrachloroethene	ug/L	ND	5.0	01/20/12 12:05	
Toluene	ug/L	ND	5.0	01/20/12 12:05	
trans-1,2-Dichloroethene	ug/L	ND	5.0	01/20/12 12:05	
trans-1,3-Dichloropropene	ug/L	ND	5.0	01/20/12 12:05	
Trichloroethene	ug/L	ND	5.0	01/20/12 12:05	
Trichlorofluoromethane	ug/L	ND	5.0	01/20/12 12:05	
Vinyl chloride	ug/L	ND	1.0	01/20/12 12:05	
1,2-Dichloroethane-d4 (S)	%	96	70-130	01/20/12 12:05	
4-Bromofluorobenzene (S)	%	108	70-130	01/20/12 12:05	
Toluene-d8 (S)	%	91	70-130	01/20/12 12:05	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 41569181.100000 Essex/Hope
Pace Project No.: 3061307

LABORATORY CONTROL SAMPLE: 394068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.2	101	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	17.6	88	64.6-121	
1,1,2-Trichloroethane	ug/L	20	18.5	92	75.6-120	
1,1-Dichloroethane	ug/L	20	19.7	98	68.5-122	
1,1-Dichloroethene	ug/L	20	18.9	95	57.1-120	
1,2-Dichlorobenzene	ug/L	20	19.3	96	69.6-120	
1,2-Dichloroethane	ug/L	20	18.8	94	60.5-133	
1,2-Dichloropropane	ug/L	20	17.5	88	71-120	
1,3-Dichlorobenzene	ug/L	20	19.1	96	68.4-121	
1,4-Dichlorobenzene	ug/L	20	19.1	96	68.5-123	
2-Butanone (MEK)	ug/L	20	20.3	102	55.7-138	
2-Hexanone	ug/L	20	17.8	89	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.7	94	64.5-121	
Acetone	ug/L	20	22.0	110	57.6-168	
Benzene	ug/L	20	18.2	91	69.8-120	
Bromodichloromethane	ug/L	20	16.5	83	66.5-120	
Bromoform	ug/L	20	15.5	78	61.1-120	
Bromomethane	ug/L	20	28.6	143	10.6-200	
Carbon disulfide	ug/L	20	20.8	104	60.2-122	
Carbon tetrachloride	ug/L	20	18.1	91	60.1-127	
Chlorobenzene	ug/L	20	19.9	99	72-120	
Chloroethane	ug/L	20	17.8	89	36.8-142	
Chloroform	ug/L	20	19.6	98	69-122	
Chloromethane	ug/L	20	12.9	65	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	19.5	97	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	16.7	84	74.3-120	
Dibromochloromethane	ug/L	20	16.8	84	66.1-120	
Ethylbenzene	ug/L	20	20.2	101	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	19.7	99	68.3-129	
m&p-Xylene	ug/L	40	41.5	104	70.4-130	
Methylene Chloride	ug/L	20	16.8	84	61.5-125	
o-Xylene	ug/L	20	19.5	98	70.6-127	
Styrene	ug/L	20	18.7	94	69.9-120	
Tetrachloroethene	ug/L	20	19.9	100	63.4-121	
Toluene	ug/L	20	19.3	96	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	16.7	84	71-120	
Trichloroethene	ug/L	20	18.8	94	65.9-120	
Trichlorofluoromethane	ug/L	20	19.1	95	44.8-137	
Vinyl chloride	ug/L	20	16.4	82	51-127	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			95	70-130	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 41569181.100000 Essex/Hope
Pace Project No.: 3061307

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 394143 394144

Parameter	Units	3061025002 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	24.3	21.0	122	105	64.3-127	15	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.5	16.8	97	84	64.6-121	14	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.5	17.9	102	89	75.6-120	14	
1,1-Dichloroethane	ug/L	ND	20	20	23.1	19.7	116	98	68.5-122	16	
1,1-Dichloroethene	ug/L	ND	20	20	23.5	19.7	118	98	57.1-120	18	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.5	18.4	107	92	69.6-120	15	
1,2-Dichloroethane	ug/L	ND	20	20	21.6	18.7	108	94	60.5-133	14	
1,2-Dichloropropane	ug/L	ND	20	20	19.6	16.5	98	83	71-120	17	
1,3-Dichlorobenzene	ug/L	ND	20	20	21.3	18.4	107	92	68.4-121	15	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.4	18.2	107	91	68.5-123	16	
2-Butanone (MEK)	ug/L	ND	20	20	21.0	22.2	102	108	55.7-138	6	
2-Hexanone	ug/L	ND	20	20	17.6	18.5	88	92	67-133	5	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	19.6	20.2	98	101	64.5-121	3	
Acetone	ug/L	ND	20	20	21.6	22.2	94	97	57.6-168	3	
Benzene	ug/L	ND	20	20	20.7	17.7	103	88	69.8-120	16	
Bromodichloromethane	ug/L	ND	20	20	18.3	15.8	91	79	66.5-120	15	
Bromoform	ug/L	ND	20	20	17.4	15.7	87	79	61.1-120	10	
Bromomethane	ug/L	ND	20	20	25.7	27.9	128	139	10.6-200	8	
Carbon disulfide	ug/L	ND	20	20	21.6	22.9	108	115	60.2-122	6	
Carbon tetrachloride	ug/L	ND	20	20	20.3	18.5	102	93	60.1-127	9	
Chlorobenzene	ug/L	ND	20	20	22.2	19.4	111	97	72-120	13	
Chloroethane	ug/L	ND	20	20	20.2	21.3	101	106	36.8-142	5	
Chloroform	ug/L	ND	20	20	23.0	20.0	115	100	69-122	14	
Chloromethane	ug/L	ND	20	20	14.5	15.8	72	79	37.2-129	9	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.8	19.5	114	98	69.5-123	16	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.5	16.0	93	80	74.3-120	15	
Dibromochloromethane	ug/L	ND	20	20	18.7	16.4	94	82	66.1-120	13	
Ethylbenzene	ug/L	ND	20	20	22.3	19.7	112	99	70.9-124	12	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.3	19.5	112	97	68.3-129	14	
m&p-Xylene	ug/L	ND	40	40	46.5	41.2	116	103	70.4-130	12	
Methylene Chloride	ug/L	ND	20	20	19.2	16.3	96	81	61.5-125	16	
o-Xylene	ug/L	ND	20	20	21.8	19.1	109	96	70.6-127	13	
Styrene	ug/L	ND	20	20	20.2	18.2	101	91	69.9-120	11	
Tetrachloroethene	ug/L	ND	20	20	23.1	20.2	115	101	63.4-121	13	
Toluene	ug/L	ND	20	20	22.0	19.0	110	95	71.5-120	15	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	19.1	109	95	64.1-120	14	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.5	16.0	93	80	71-120	15	
Trichloroethene	ug/L	ND	20	20	21.4	18.6	107	93	65.9-120	14	
Trichlorofluoromethane	ug/L	ND	20	20	21.9	24.0	110	120	44.8-137	9	
Vinyl chloride	ug/L	ND	20	20	18.3	20.3	91	101	51-127	10	
1,2-Dichloroethane-d4 (S)	%						99	101	70-130		
4-Bromofluorobenzene (S)	%						98	99	70-130		
Toluene-d8 (S)	%						93	92	70-130		

Pace Analytical Services, Inc.
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QUALIFIERS

Project: 41569181.100000 Essex/Hope
Pace Project No.: 3061307

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.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 41569181.100000 Essex/Hope
Pace Project No.: 3061307

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3061307001	**PRE-CARB**	EPA 8260	MSV/11731		
3061307002	**PRIMARY-EFF**	EPA 8260	MSV/11731		
3061307003	**POST-CARB**	EPA 8260	MSV/11731		
3061307004	**TB-01**	EPA 8260	MSV/11731		

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1359886

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 4, 501 HOLIDAY DR. STE, 300 PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4300 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41569181
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41569181.10000

Section C Invoice Information:

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			1.17.12	1120		3				X					Y	X		001
2	PRIMARY-EFF						1125		3				X						X		002
3	POST-CARB						1130		3				X						X		003
4	POST-CARB						1200		3				X						X		
5	POST-CARB						1230		3				X						X		
6	POST-CARB					↓	1300		3				X						X		↓
7	TB-01					1.17.12	—		2				X						X		004
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COMPOSITE FOUR (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE	[signature] / URS	1.17.12	1330	[signature] FedEx	1.17.12	1330	
				[signature]	1-18-12	945	06 Y N Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 1.17.12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (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.

Sample Condition Upon Receipt

JMS

Pace Analytical

Client Name: UPS

Project # 3061307

Courier: [x] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other ______

Tracking #: 872640756816

Custody Seal on Cooler/Box Present: [ ] yes [x] no Seals intact: [ ] yes [ ] no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other ______

Thermometer Used 3 5 (6)

Type of Ice: (Wet) Blue None [x] Samples on ice, cooling process has begun

Cooler Temperature 0.6

Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 1-18-12

		Comments:
Chain of Custody Present:	[x] Yes [ ] No [ ] N/A	1.
Chain of Custody Filled Out:	[x] Yes [ ] No [ ] N/A	2.
Chain of Custody Relinquished:	[x] Yes [ ] No [ ] N/A	3.
Sampler Name & Signature on COC:	[x] Yes [ ] No [ ] N/A	4.
Samples Arrived within Hold Time:	[x] Yes [ ] No [ ] N/A	5.
Short Hold Time Analysis (<72hr):	[ ] Yes [x] No [ ] N/A	6.
Rush Turn Around Time Requested:	[ ] Yes [x] No [ ] N/A	7.
Sufficient Volume:	[x] Yes [ ] No [ ] N/A	8.
Correct Containers Used:	[x] Yes [ ] No [ ] N/A	9.
-Pace Containers Used:	[x] Yes [ ] No [ ] N/A	
Containers Intact:	[x] Yes [ ] No [ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes [ ] No [x] N/A	11.
Sample Labels match COC:	[x] Yes [ ] No [ ] N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	[ ] Yes [ ] No [x] N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ] Yes [ ] No [x] N/A	
exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water)	[x] Yes [ ] No	Initial when completed: [initials] — Lot # of added preservative
Samples checked for dechlorination:	[ ] Yes [ ] No [x] N/A	14.
Headspace in VOA Vials (>6mm):	[ ] Yes [x] No [ ] N/A	15.
Trip Blank Present:	[x] Yes [ ] No [ ] N/A	16.
Trip Blank Custody Seals Present	[x] 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:** 1/18/12

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)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

February 23, 2012

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

RE: Project: Essex/Hope Jamestown
Pace Project No.: 3063297

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex/Hope Jamestown
Pace Project No.: 3063297

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
Virginia VELAP (Cert # 460198)
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3063297

Sample: PRE-CARB **Lab ID: 3063297001** Collected: 02/15/12 11:50 Received: 02/16/12 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/21/12 21:16	67-64-1	
Benzene	**8.3**	ug/L	1.0	1		02/21/12 21:16	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/21/12 21:16	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/21/12 21:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/21/12 21:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/21/12 21:16	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		02/21/12 21:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/21/12 21:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/21/12 21:16	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/21/12 21:16	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/21/12 21:16	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/21/12 21:16	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/21/12 21:16	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/21/12 21:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/21/12 21:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/21/12 21:16	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/21/12 21:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/21/12 21:16	107-06-2	
1,1-Dichloroethene	**23.0**	ug/L	5.0	1		02/21/12 21:16	75-35-4	
cis-1,2-Dichloroethene	**5650**	ug/L	100	20		02/21/12 21:42	156-59-2	
trans-1,2-Dichloroethene	**87.5**	ug/L	5.0	1		02/21/12 21:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/21/12 21:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/21/12 21:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/21/12 21:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/21/12 21:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/21/12 21:16	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/21/12 21:16	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		02/21/12 21:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/21/12 21:16	108-10-1	
Styrene	ND	ug/L	5.0	1		02/21/12 21:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/21/12 21:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/21/12 21:16	127-18-4	
Toluene	ND	ug/L	5.0	1		02/21/12 21:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/21/12 21:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/21/12 21:16	79-00-5	
Trichloroethene	**649**	ug/L	100	20		02/21/12 21:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/12 21:16	75-69-4	
Vinyl chloride	**630**	ug/L	20.0	20		02/21/12 21:42	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		02/21/12 21:16	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/21/12 21:16	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		02/21/12 21:16	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		02/21/12 21:16	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		02/21/12 21:16	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3063297

Sample: PRIMARY-EFF **Lab ID: 3063297002** Collected: 02/15/12 11:55 Received: 02/16/12 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/21/12 20:23	67-64-1	
Benzene	ND	ug/L	1.0	1		02/21/12 20:23	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/21/12 20:23	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/21/12 20:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/21/12 20:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/21/12 20:23	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		02/21/12 20:23	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/21/12 20:23	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/21/12 20:23	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/21/12 20:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/21/12 20:23	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/21/12 20:23	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/21/12 20:23	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/21/12 20:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/21/12 20:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/21/12 20:23	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/21/12 20:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/21/12 20:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/12 20:23	75-35-4	
cis-1,2-Dichloroethene	**15.1**	ug/L	5.0	1		02/21/12 20:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 20:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/21/12 20:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/21/12 20:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/21/12 20:23	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/21/12 20:23	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/21/12 20:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/21/12 20:23	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		02/21/12 20:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/21/12 20:23	108-10-1	
Styrene	ND	ug/L	5.0	1		02/21/12 20:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/21/12 20:23	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/21/12 20:23	127-18-4	
Toluene	ND	ug/L	5.0	1		02/21/12 20:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/21/12 20:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/21/12 20:23	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/21/12 20:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/12 20:23	75-69-4	
Vinyl chloride	**637**	ug/L	20.0	20		02/21/12 20:50	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		02/21/12 20:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/21/12 20:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		02/21/12 20:23	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		02/21/12 20:23	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		02/21/12 20:23	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3063297

Sample: POST-CARB **Lab ID: 3063297003** Collected: 02/15/12 13:30 Received: 02/16/12 09:30 Matrix: Water

Comments: • Post-Carb grabs for composite collected at 12:00, 12:30, 13:00, and 13:30

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/21/12 19:57	67-64-1	
Benzene	ND	ug/L	1.0	1		02/21/12 19:57	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/21/12 19:57	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/21/12 19:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/21/12 19:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/21/12 19:57	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		02/21/12 19:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/21/12 19:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/21/12 19:57	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/21/12 19:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/21/12 19:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/21/12 19:57	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/21/12 19:57	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/21/12 19:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/21/12 19:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/21/12 19:57	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/21/12 19:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/21/12 19:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/12 19:57	75-35-4	
cis-1,2-Dichloroethene	**268**	ug/L	5.0	1		02/21/12 19:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 19:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/21/12 19:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/21/12 19:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/21/12 19:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/21/12 19:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/21/12 19:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/21/12 19:57	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		02/21/12 19:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/21/12 19:57	108-10-1	
Styrene	ND	ug/L	5.0	1		02/21/12 19:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/21/12 19:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/21/12 19:57	127-18-4	
Toluene	ND	ug/L	5.0	1		02/21/12 19:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/21/12 19:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/21/12 19:57	79-00-5	
Trichloroethene	**9.5**	ug/L	5.0	1		02/21/12 19:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/12 19:57	75-69-4	
Vinyl chloride	**495**	ug/L	10.0	10		02/22/12 16:26	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		02/21/12 19:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/21/12 19:57	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		02/21/12 19:57	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		02/21/12 19:57	17060-07-0	
Toluene-d8 (S)	110	%	70-130	1		02/21/12 19:57	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3063297

Sample: TB-01 **Lab ID: 3063297004** Collected: 02/15/12 00:01 Received: 02/16/12 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/21/12 14:14	67-64-1	
Benzene	ND	ug/L	1.0	1		02/21/12 14:14	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/21/12 14:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/21/12 14:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/21/12 14:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/21/12 14:14	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		02/21/12 14:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/21/12 14:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/21/12 14:14	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/21/12 14:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/21/12 14:14	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/21/12 14:14	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/21/12 14:14	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/21/12 14:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/21/12 14:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/21/12 14:14	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/21/12 14:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/21/12 14:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/12 14:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 14:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 14:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/21/12 14:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/21/12 14:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/21/12 14:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/21/12 14:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/21/12 14:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/21/12 14:14	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		02/21/12 14:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/21/12 14:14	108-10-1	
Styrene	ND	ug/L	5.0	1		02/21/12 14:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/21/12 14:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/21/12 14:14	127-18-4	
Toluene	ND	ug/L	5.0	1		02/21/12 14:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/21/12 14:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/21/12 14:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/21/12 14:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/12 14:14	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/21/12 14:14	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		02/21/12 14:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/21/12 14:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		02/21/12 14:14	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		02/21/12 14:14	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		02/21/12 14:14	2037-26-5	

Pace Analytical Services, Inc.
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(724)850-5600

QUALITY CONTROL DATA

Project: Essex/Hope Jamestown
Pace Project No.: 3063297

QC Batch: MSV/11992 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3063297001, 3063297002, 3063297003, 3063297004

METHOD BLANK: 407095 Matrix: Water
Associated Lab Samples: 3063297001, 3063297002, 3063297003, 3063297004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/21/12 12:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/21/12 12:03	
1,1,2-Trichloroethane	ug/L	ND	5.0	02/21/12 12:03	
1,1-Dichloroethane	ug/L	ND	5.0	02/21/12 12:03	
1,1-Dichloroethene	ug/L	ND	5.0	02/21/12 12:03	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/21/12 12:03	
1,2-Dichloroethane	ug/L	ND	5.0	02/21/12 12:03	
1,2-Dichloropropane	ug/L	ND	5.0	02/21/12 12:03	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/21/12 12:03	
1,4-Dichlorobenzene	ug/L	ND	5.0	02/21/12 12:03	
2-Butanone (MEK)	ug/L	ND	10.0	02/21/12 12:03	
2-Hexanone	ug/L	ND	10.0	02/21/12 12:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/21/12 12:03	
Acetone	ug/L	ND	10.0	02/21/12 12:03	
Benzene	ug/L	ND	1.0	02/21/12 12:03	
Bromodichloromethane	ug/L	ND	5.0	02/21/12 12:03	
Bromoform	ug/L	ND	5.0	02/21/12 12:03	
Bromomethane	ug/L	ND	5.0	02/21/12 12:03	
Carbon disulfide	ug/L	ND	5.0	02/21/12 12:03	
Carbon tetrachloride	ug/L	ND	5.0	02/21/12 12:03	
Chlorobenzene	ug/L	ND	5.0	02/21/12 12:03	
Chloroethane	ug/L	ND	5.0	02/21/12 12:03	
Chloroform	ug/L	ND	5.0	02/21/12 12:03	
Chloromethane	ug/L	ND	5.0	02/21/12 12:03	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/21/12 12:03	
cis-1,3-Dichloropropene	ug/L	ND	5.0	02/21/12 12:03	
Dibromochloromethane	ug/L	ND	5.0	02/21/12 12:03	
Ethylbenzene	ug/L	ND	5.0	02/21/12 12:03	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/21/12 12:03	
m&p-Xylene	ug/L	ND	5.0	02/21/12 12:03	
Methylene Chloride	ug/L	ND	5.0	02/21/12 12:03	
o-Xylene	ug/L	ND	5.0	02/21/12 12:03	
Styrene	ug/L	ND	5.0	02/21/12 12:03	
Tetrachloroethene	ug/L	ND	5.0	02/21/12 12:03	
Toluene	ug/L	ND	5.0	02/21/12 12:03	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/21/12 12:03	
trans-1,3-Dichloropropene	ug/L	ND	5.0	02/21/12 12:03	
Trichloroethene	ug/L	ND	5.0	02/21/12 12:03	
Trichlorofluoromethane	ug/L	ND	5.0	02/21/12 12:03	
Vinyl chloride	ug/L	ND	1.0	02/21/12 12:03	
1,2-Dichloroethane-d4 (S)	%	100	70-130	02/21/12 12:03	
4-Bromofluorobenzene (S)	%	100	70-130	02/21/12 12:03	
Toluene-d8 (S)	%	99	70-130	02/21/12 12:03	

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex/Hope Jamestown
Pace Project No.: 3063297

LABORATORY CONTROL SAMPLE: 407096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	24.4	122	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	20.0	100	64.6-121	
1,1,2-Trichloroethane	ug/L	20	22.2	111	75.6-120	
1,1-Dichloroethane	ug/L	20	21.3	107	68.5-122	
1,1-Dichloroethene	ug/L	20	22.5	112	57.1-120	
1,2-Dichlorobenzene	ug/L	20	20.7	103	69.6-120	
1,2-Dichloroethane	ug/L	20	21.4	107	60.5-133	
1,2-Dichloropropane	ug/L	20	19.6	98	71-120	
1,3-Dichlorobenzene	ug/L	20	21.7	108	68.4-121	
1,4-Dichlorobenzene	ug/L	20	21.4	107	68.5-123	
2-Butanone (MEK)	ug/L	20	24.0	120	55.7-138	
2-Hexanone	ug/L	20	17.4	87	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	23.3	117	64.5-121	
Acetone	ug/L	20	28.6	143	57.6-168	
Benzene	ug/L	20	21.2	106	69.8-120	
Bromodichloromethane	ug/L	20	19.6	98	66.5-120	
Bromoform	ug/L	20	19.1	95	61.1-120	
Bromomethane	ug/L	20	26.0	130	10.6-200	
Carbon disulfide	ug/L	20	35.7	179	60.2-122	L3
Carbon tetrachloride	ug/L	20	23.2	116	60.1-127	
Chlorobenzene	ug/L	20	22.2	111	72-120	
Chloroethane	ug/L	20	16.9	85	36.8-142	
Chloroform	ug/L	20	21.5	107	69-122	
Chloromethane	ug/L	20	21.6	108	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	22.1	111	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	23.5	118	74.3-120	
Dibromochloromethane	ug/L	20	22.0	110	66.1-120	
Ethylbenzene	ug/L	20	22.2	111	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	20.7	104	68.3-129	
m&p-Xylene	ug/L	40	45.4	113	70.4-130	
Methylene Chloride	ug/L	20	22.0	110	61.5-125	
o-Xylene	ug/L	20	22.0	110	70.6-127	
Styrene	ug/L	20	20.4	102	69.9-120	
Tetrachloroethene	ug/L	20	24.5	122	63.4-121	L1
Toluene	ug/L	20	24.3	122	71.5-120	L1
trans-1,2-Dichloroethene	ug/L	20	22.2	111	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	22.7	113	71-120	
Trichloroethene	ug/L	20	20.4	102	65.9-120	
Trichlorofluoromethane	ug/L	20	22.7	113	44.8-137	
Vinyl chloride	ug/L	20	23.5	118	51-127	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			88	70-130	
Toluene-d8 (S)	%			110	70-130	

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QUALITY CONTROL DATA

Project: Essex/Hope Jamestown
Pace Project No.: 3063297

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 407683 407684

Parameter	Units	3062883001 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	26.8	24.5	134	123	64.3-127	9	M0
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.6	21.7	113	108	64.6-121	4	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.6	21.3	113	106	75.6-120	6	
1,1-Dichloroethane	ug/L	ND	20	20	23.7	22.0	118	110	68.5-122	7	
1,1-Dichloroethene	ug/L	ND	20	20	24.8	23.3	124	116	57.1-120	6	M0
1,2-Dichlorobenzene	ug/L	ND	20	20	22.5	20.2	112	101	69.6-120	11	
1,2-Dichloroethane	ug/L	ND	20	20	23.8	23.2	119	116	60.5-133	3	
1,2-Dichloropropane	ug/L	ND	20	20	22.9	22.0	114	110	71-120	4	
1,3-Dichlorobenzene	ug/L	ND	20	20	22.3	20.6	111	103	68.4-121	8	
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	20.9	112	104	68.5-123	7	
2-Butanone (MEK)	ug/L	ND	20	20	26.5	28.7	133	144	55.7-138	8	M0
2-Hexanone	ug/L	ND	20	20	22.4	21.0	112	105	67-133	7	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	25.0	23.5	125	117	64.5-121	6	M0
Acetone	ug/L	ND	20	20	30.4	28.8	152	144	57.6-168	5	
Benzene	ug/L	ND	20	20	23.5	22.5	117	112	69.8-120	4	
Bromodichloromethane	ug/L	ND	20	20	21.6	21.0	108	105	66.5-120	3	
Bromoform	ug/L	ND	20	20	18.4	17.1	92	86	61.1-120	7	
Bromomethane	ug/L	ND	20	20	19.2	21.4	96	107	10.6-200	11	
Carbon disulfide	ug/L	ND	20	20	30.1	28.6	150	143	60.2-122	5	M0
Carbon tetrachloride	ug/L	ND	20	20	24.3	22.4	122	112	60.1-127	8	
Chlorobenzene	ug/L	ND	20	20	22.8	22.0	114	110	72-120	4	
Chloroethane	ug/L	ND	20	20	23.5	23.8	118	119	36.8-142	1	
Chloroform	ug/L	ND	20	20	23.8	22.6	119	113	69-122	5	
Chloromethane	ug/L	ND	20	20	23.1	24.6	115	123	37.2-129	6	
cis-1,2-Dichloroethene	ug/L	ND	20	20	24.7	23.2	124	116	69.5-123	6	M0
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.3	22.1	112	111	74.3-120	.8	
Dibromochloromethane	ug/L	ND	20	20	20.2	18.8	101	94	66.1-120	7	
Ethylbenzene	ug/L	ND	20	20	24.0	22.3	120	111	70.9-124	8	
Isopropylbenzene (Cumene)	ug/L				23.8	22.1				7	
m&p-Xylene	ug/L	ND	40	40	47.8	45.1	120	113	70.4-130	6	
Methylene Chloride	ug/L	ND	20	20	22.3	22.0	112	110	61.5-125	1	
o-Xylene	ug/L	ND	20	20	23.4	21.8	117	109	70.6-127	7	
Styrene	ug/L	ND	20	20	21.1	19.7	106	99	69.9-120	7	
Tetrachloroethene	ug/L	ND	20	20	24.0	22.3	120	112	63.4-121	7	
Toluene	ug/L	ND	20	20	23.6	22.0	118	110	71.5-120	7	
trans-1,2-Dichloroethene	ug/L	ND	20	20	23.6	23.0	118	115	64.1-120	2	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.4	21.8	117	109	71-120	7	
Trichloroethene	ug/L	ND	20	20	21.6	20.8	107	103	65.9-120	4	
Trichlorofluoromethane	ug/L				25.8	25.0				3	
Vinyl chloride	ug/L	ND	20	20	28.3	29.3	141	147	51-127	4	M0
1,2-Dichloroethane-d4 (S)	%						112	117	70-130		
4-Bromofluorobenzene (S)	%						96	95	70-130		
Toluene-d8 (S)	%						99	102	70-130		

Pace Analytical Services, Inc.
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QUALIFIERS

Project: Essex/Hope Jamestown
Pace Project No.: 3063297

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.

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.
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.

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex/Hope Jamestown
Pace Project No.: 3063297

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3063297001	**PRE-CARB**	EPA 8260	MSV/11992		
3063297002	**PRIMARY-EFF**	EPA 8260	MSV/11992		
3063297003	**POST-CARB**	EPA 8260	MSV/11992		
3063297004	**TB-01**	EPA 8260	MSV/11992		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1514040

Section A Required Client Information:

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

Section B Required Project Information:

Report To: MARY DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41569181
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41569181.10000

Section C Invoice Information:

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 3063297
1	PRE-CARB	WT	G			2.15.12	1150		3				X					X		001
2	PRIMARY-EFF						1155		3				X					X		002
3	POST-CARB						1200		3				X					X		003
4	POST-CARB						1230		3				X					X		
5	POST-CARB						1300		3				X					X		
6	POST-CARB						1330		3				X					X		
7	TB-01	WT	G			2.15.12	—		2				X					X		004
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE	Valerie Sibeto/URS	2.15.12	1345	FedEx Air	2.15.12	1345	3.4	Y	N	Y
				Jeremy Silky/Pace	2-16-12	0930				

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: Valerie Sibeto
DATE Signed (MM/DD/YY): 2.15.12

*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 Project # 3063297

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 8726 4075 6827

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [ ] None [X] Other _____

Thermometer Used (3) 5 6 Type of Ice: (Wet) Blue None [ ] Samples on ice, cooling process has begun

Cooler Temperature 3.4 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C Comments:

Date and Initials of person examining contents: JMS 2-10-12

Chain of Custody Present:	[X] Yes [ ] No [ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes [ ] No [ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes [ ] No [ ] N/A	3.
Sampler Name & Signature on COC:	[X] Yes [ ] No [ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes [ ] No [ ] N/A	5.
Short Hold Time Analysis (<72hr):	[ ] Yes [X] No [ ] N/A	6.
Rush Turn Around Time Requested:	[ ] Yes [X] No [ ] N/A	7.
Sufficient Volume:	[X] Yes [ ] No [ ] N/A	8.
Correct Containers Used:	[X] Yes [ ] No [ ] N/A	9.
-Pace Containers Used:	[X] Yes [ ] No [ ] N/A	
Containers Intact:	[X] Yes [ ] No [ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes [ ] No [X] N/A	11.
Sample Labels match COC:	[X] Yes [ ] No [ ] N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	[ ] Yes [ ] No [X] N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ] Yes [ ] No [X] N/A	
exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water)	[X] Yes [ ] No	Initial when completed JMS Lot # of added preservative
Samples checked for dechlorination:	[ ] Yes [ ] No [X] N/A	14.
Headspace in VOA Vials (>6mm):	[X] Yes [ ] No [ ] N/A	15. TB-0162
Trip Blank Present:	[X] Yes [ ] No [ ] N/A	16.
Trip Blank Custody Seals Present	[X] 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:** 2/10/12

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)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

April 04, 2012

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

RE: Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3065542

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Timothy Reed for
Rachel Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3065542

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI 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/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia VELAP (Cert # 460198)
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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(724)850-5600

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3065542

Sample: PRE-CARB **Lab ID: 3065542001** Collected: 03/20/12 10:40 Received: 03/21/12 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		03/31/12 21:05	67-64-1	
Benzene	**7.3**	ug/L	1.0	1		03/31/12 21:05	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/31/12 21:05	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/31/12 21:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/31/12 21:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/31/12 21:05	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/31/12 21:05	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/31/12 21:05	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/31/12 21:05	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/31/12 21:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/31/12 21:05	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/31/12 21:05	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/31/12 21:05	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/31/12 21:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/31/12 21:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/31/12 21:05	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/31/12 21:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/31/12 21:05	107-06-2	
1,1-Dichloroethene	**17.6**	ug/L	5.0	1		03/31/12 21:05	75-35-4	
cis-1,2-Dichloroethene	**5210**	ug/L	500	100		04/02/12 17:01	156-59-2	
trans-1,2-Dichloroethene	**67.8**	ug/L	5.0	1		03/31/12 21:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/31/12 21:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/31/12 21:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/31/12 21:05	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/31/12 21:05	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/31/12 21:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/31/12 21:05	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		03/31/12 21:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/31/12 21:05	108-10-1	
Styrene	ND	ug/L	5.0	1		03/31/12 21:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/31/12 21:05	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/31/12 21:05	127-18-4	
Toluene	ND	ug/L	5.0	1		03/31/12 21:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/31/12 21:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/31/12 21:05	79-00-5	
Trichloroethene	**611**	ug/L	500	100		04/02/12 17:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/31/12 21:05	75-69-4	
Vinyl chloride	**427**	ug/L	100	100		04/02/12 17:01	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/31/12 21:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		03/31/12 21:05	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		03/31/12 21:05	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		03/31/12 21:05	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		03/31/12 21:05	2037-26-5	

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ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3065542

Sample: PRIMARY-EFF **Lab ID: 3065542002** Collected: 03/20/12 10:45 Received: 03/21/12 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		03/31/12 21:31	67-64-1	
Benzene	ND	ug/L	1.0	1		03/31/12 21:31	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/31/12 21:31	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/31/12 21:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/31/12 21:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/31/12 21:31	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/31/12 21:31	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/31/12 21:31	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/31/12 21:31	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/31/12 21:31	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/31/12 21:31	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/31/12 21:31	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/31/12 21:31	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/31/12 21:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/31/12 21:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/31/12 21:31	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/31/12 21:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/31/12 21:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/31/12 21:31	75-35-4	
cis-1,2-Dichloroethene	**1730**	ug/L	250	50		04/02/12 17:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/31/12 21:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/31/12 21:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/31/12 21:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/31/12 21:31	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/31/12 21:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/31/12 21:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/31/12 21:31	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		03/31/12 21:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/31/12 21:31	108-10-1	
Styrene	ND	ug/L	5.0	1		03/31/12 21:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/31/12 21:31	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/31/12 21:31	127-18-4	
Toluene	ND	ug/L	5.0	1		03/31/12 21:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/31/12 21:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/31/12 21:31	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/31/12 21:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/31/12 21:31	75-69-4	
Vinyl chloride	**767**	ug/L	50.0	50		04/02/12 17:28	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/31/12 21:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		03/31/12 21:31	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		03/31/12 21:31	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		03/31/12 21:31	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		03/31/12 21:31	2037-26-5	

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ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3065542

Sample: POST-CARB **Lab ID: 3065542003** Collected: 03/20/12 12:20 Received: 03/21/12 10:00 Matrix: Water

Comments: • Sample Collection times 3/20/2 10:50, 11:20, 11:50, and 12:20
• This sample composited from four vials prior to analysis for 8260B VOA.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/31/12 21:57	67-64-1	
Benzene	ND	ug/L	1.0	1		03/31/12 21:57	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/31/12 21:57	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/31/12 21:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/31/12 21:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/31/12 21:57	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/31/12 21:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/31/12 21:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/31/12 21:57	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/31/12 21:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/31/12 21:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/31/12 21:57	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/31/12 21:57	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/31/12 21:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/31/12 21:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/31/12 21:57	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/31/12 21:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/31/12 21:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/31/12 21:57	75-35-4	
cis-1,2-Dichloroethene	**206**	ug/L	5.0	1		03/31/12 21:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/31/12 21:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/31/12 21:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/31/12 21:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/31/12 21:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/31/12 21:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/31/12 21:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/31/12 21:57	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		03/31/12 21:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/31/12 21:57	108-10-1	
Styrene	ND	ug/L	5.0	1		03/31/12 21:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/31/12 21:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/31/12 21:57	127-18-4	
Toluene	ND	ug/L	5.0	1		03/31/12 21:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/31/12 21:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/31/12 21:57	79-00-5	
Trichloroethene	**6.2**	ug/L	5.0	1		03/31/12 21:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/31/12 21:57	75-69-4	
Vinyl chloride	**655**	ug/L	10.0	10		04/02/12 17:54	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/31/12 21:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		03/31/12 21:57	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		03/31/12 21:57	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		03/31/12 21:57	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/31/12 21:57	2037-26-5	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3065542

Sample: TB-01 **Lab ID: 3065542007** Collected: 03/20/12 00:01 Received: 03/21/12 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		03/31/12 18:01	67-64-1	
Benzene	ND	ug/L	1.0	1		03/31/12 18:01	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/31/12 18:01	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/31/12 18:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/31/12 18:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/31/12 18:01	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/31/12 18:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/31/12 18:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/31/12 18:01	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/31/12 18:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/31/12 18:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/31/12 18:01	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/31/12 18:01	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/31/12 18:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/31/12 18:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/31/12 18:01	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/31/12 18:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/31/12 18:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/31/12 18:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/31/12 18:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/31/12 18:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/31/12 18:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/31/12 18:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/31/12 18:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/31/12 18:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/31/12 18:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/31/12 18:01	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		03/31/12 18:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/31/12 18:01	108-10-1	
Styrene	ND	ug/L	5.0	1		03/31/12 18:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/31/12 18:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/31/12 18:01	127-18-4	
Toluene	ND	ug/L	5.0	1		03/31/12 18:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/31/12 18:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/31/12 18:01	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/31/12 18:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/31/12 18:01	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		03/31/12 18:01	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/31/12 18:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		03/31/12 18:01	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		03/31/12 18:01	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		03/31/12 18:01	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/31/12 18:01	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3065542

QC Batch: MSV/12348 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3065542001, 3065542002, 3065542003, 3065542007

METHOD BLANK: 424271 Matrix: Water
Associated Lab Samples: 3065542001, 3065542002, 3065542003, 3065542007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/31/12 17:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/31/12 17:35	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/31/12 17:35	
1,1-Dichloroethane	ug/L	ND	5.0	03/31/12 17:35	
1,1-Dichloroethene	ug/L	ND	5.0	03/31/12 17:35	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/31/12 17:35	
1,2-Dichloroethane	ug/L	ND	5.0	03/31/12 17:35	
1,2-Dichloropropane	ug/L	ND	5.0	03/31/12 17:35	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/31/12 17:35	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/31/12 17:35	
2-Butanone (MEK)	ug/L	ND	10.0	03/31/12 17:35	
2-Hexanone	ug/L	ND	10.0	03/31/12 17:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/31/12 17:35	
Acetone	ug/L	ND	10.0	03/31/12 17:35	
Benzene	ug/L	ND	1.0	03/31/12 17:35	
Bromodichloromethane	ug/L	ND	5.0	03/31/12 17:35	
Bromoform	ug/L	ND	5.0	03/31/12 17:35	
Bromomethane	ug/L	ND	5.0	03/31/12 17:35	
Carbon disulfide	ug/L	ND	5.0	03/31/12 17:35	
Carbon tetrachloride	ug/L	ND	5.0	03/31/12 17:35	
Chlorobenzene	ug/L	ND	5.0	03/31/12 17:35	
Chloroethane	ug/L	ND	5.0	03/31/12 17:35	
Chloroform	ug/L	ND	5.0	03/31/12 17:35	
Chloromethane	ug/L	ND	5.0	03/31/12 17:35	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/31/12 17:35	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/31/12 17:35	
Dibromochloromethane	ug/L	ND	5.0	03/31/12 17:35	
Ethylbenzene	ug/L	ND	5.0	03/31/12 17:35	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/31/12 17:35	
m&p-Xylene	ug/L	ND	5.0	03/31/12 17:35	
Methylene Chloride	ug/L	ND	5.0	03/31/12 17:35	
o-Xylene	ug/L	ND	5.0	03/31/12 17:35	
Styrene	ug/L	ND	5.0	03/31/12 17:35	
Tetrachloroethene	ug/L	ND	5.0	03/31/12 17:35	
Toluene	ug/L	ND	5.0	03/31/12 17:35	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/31/12 17:35	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/31/12 17:35	
Trichloroethene	ug/L	ND	5.0	03/31/12 17:35	
Trichlorofluoromethane	ug/L	ND	5.0	03/31/12 17:35	
Vinyl chloride	ug/L	ND	1.0	03/31/12 17:35	
1,2-Dichloroethane-d4 (S)	%	102	70-130	03/31/12 17:35	
4-Bromofluorobenzene (S)	%	104	70-130	03/31/12 17:35	
Toluene-d8 (S)	%	102	70-130	03/31/12 17:35	

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QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3065542

LABORATORY CONTROL SAMPLE: 424272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.7	104	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	20.3	101	64.6-121	
1,1,2-Trichloroethane	ug/L	20	21.2	106	75.6-120	
1,1-Dichloroethane	ug/L	20	20.1	100	68.5-122	
1,1-Dichloroethene	ug/L	20	19.3	97	57.1-120	
1,2-Dichlorobenzene	ug/L	20	19.8	99	69.6-120	
1,2-Dichloroethane	ug/L	20	19.7	99	60.5-133	
1,2-Dichloropropane	ug/L	20	22.3	112	71-120	
1,3-Dichlorobenzene	ug/L	20	19.8	99	68.4-121	
1,4-Dichlorobenzene	ug/L	20	20.0	100	68.5-123	
2-Butanone (MEK)	ug/L	20	20.5	102	55.7-138	
2-Hexanone	ug/L	20	19.0	95	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.4	97	64.5-121	
Acetone	ug/L	20	15.5	78	57.6-168	
Benzene	ug/L	20	21.7	109	69.8-120	
Bromodichloromethane	ug/L	20	19.9	100	66.5-120	
Bromoform	ug/L	20	19.8	99	61.1-120	
Bromomethane	ug/L	20	19.9	99	10.6-200	
Carbon disulfide	ug/L	20	14.1	70	60.2-122	
Carbon tetrachloride	ug/L	20	20.2	101	60.1-127	
Chlorobenzene	ug/L	20	20.5	102	72-120	
Chloroethane	ug/L	20	14.1	71	36.8-142	
Chloroform	ug/L	20	19.8	99	69-122	
Chloromethane	ug/L	20	17.0	85	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	20.4	102	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	20.9	105	74.3-120	
Dibromochloromethane	ug/L	20	19.9	100	66.1-120	
Ethylbenzene	ug/L	20	20.5	103	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	23.4	117	68.3-129	
m&p-Xylene	ug/L	40	41.9	105	70.4-130	
Methylene Chloride	ug/L	20	20.8	104	61.5-125	
o-Xylene	ug/L	20	21.0	105	70.6-127	
Styrene	ug/L	20	20.5	103	69.9-120	
Tetrachloroethene	ug/L	20	20.3	101	63.4-121	
Toluene	ug/L	20	21.5	107	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	19.9	100	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	19.1	95	71-120	
Trichloroethene	ug/L	20	20.1	101	65.9-120	
Trichlorofluoromethane	ug/L	20	15.9	79	44.8-137	
Vinyl chloride	ug/L	20	16.3	81	51-127	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			104	70-130	

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QUALIFIERS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3065542

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.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/12348

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Pace Analytical Services, Inc.
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Greensburg, PA 15601
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 3065542

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3065542001	**PRE-CARB**	EPA 8260	MSV/12348		
3065542002	**PRIMARY-EFF**	EPA 8260	MSV/12348		
3065542003	**POST-CARB**	EPA 8260	MSV/12348		
3065542007	**TB-01**	EPA 8260	MSV/12348		

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: | of |

1492350

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 4
501 HOLIDAY DR, STE 300
PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4720 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41569181
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41569181.10000

Section C Invoice Information:

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			3.20.12	1040		3				X						X		001
2	PRIMARY-EFF						1045		3				X						X		002
3	POST-CARB						1050		3				X						X		003
4	POST-CARB						1120		3				X						X		004
5	POST-CARB						1150		3				X						X		005
6	POST-CARB						1220		3				X						X		006
7	TB-01					3.20.12	—		2				X						X		007
8																					
9																					
10																					
11																					
12																					

3065542

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COMPOSITE FOUR (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE	Valerie Sibeto/URS	3.20.12	~1500	FedEx Air	3.20.12	~1500				
					3/21/12	10:00	1.4	Y	N	Y

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

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: Valerie Sibeto DATE Signed (MM/DD/YY): 3.20.12

*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 # 3065542

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

Tracking #: 8126 4075 6860

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 Bags

Thermometer Used 3 5 (6) Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 1.4 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: JD 3/21/12

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: WT		
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 JD / 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:** 3/22/12

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)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

April 30, 2012

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

RE: Project: 41569181.10000/Essex-Hope
Pace Project No.: 3067863

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 41569181.10000/Essex-Hope
Pace Project No.: 3067863

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI 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/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia VELAP (Cert # 460198)
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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(724)850-5600

ANALYTICAL RESULTS

Project: 41569181.10000/Essex-Hope
Pace Project No.: 3067863

Sample: PRE-CARB **Lab ID: 3067863001** Collected: 04/19/12 11:05 Received: 04/20/12 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		04/25/12 20:14	67-64-1	
Benzene	**6.2**	ug/L	1.0	1		04/25/12 20:14	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/25/12 20:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/25/12 20:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/25/12 20:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/25/12 20:14	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/25/12 20:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/25/12 20:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/25/12 20:14	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/25/12 20:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/25/12 20:14	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/25/12 20:14	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/25/12 20:14	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/25/12 20:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/25/12 20:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/25/12 20:14	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/25/12 20:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/25/12 20:14	107-06-2	
1,1-Dichloroethene	**14.9**	ug/L	5.0	1		04/25/12 20:14	75-35-4	
cis-1,2-Dichloroethene	**4840**	ug/L	125	25		04/27/12 01:59	156-59-2	
trans-1,2-Dichloroethene	**107**	ug/L	5.0	1		04/25/12 20:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/25/12 20:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/25/12 20:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/25/12 20:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/25/12 20:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/25/12 20:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/25/12 20:14	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/25/12 20:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/25/12 20:14	108-10-1	
Styrene	ND	ug/L	5.0	1		04/25/12 20:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/25/12 20:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/25/12 20:14	127-18-4	
Toluene	ND	ug/L	5.0	1		04/25/12 20:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/25/12 20:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/25/12 20:14	79-00-5	
Trichloroethene	**469**	ug/L	125	25		04/27/12 01:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/25/12 20:14	75-69-4	
Vinyl chloride	**368**	ug/L	25.0	25		04/27/12 01:59	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/25/12 20:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/25/12 20:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		04/25/12 20:14	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		04/25/12 20:14	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		04/25/12 20:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 41569181.10000/Essex-Hope
Pace Project No.: 3067863

Sample: PRIMARY-EFF **Lab ID: 3067863002** Collected: 04/19/12 11:10 Received: 04/20/12 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		04/25/12 20:41	67-64-1	
Benzene	ND	ug/L	1.0	1		04/25/12 20:41	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/25/12 20:41	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/25/12 20:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/25/12 20:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/25/12 20:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/25/12 20:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/25/12 20:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/25/12 20:41	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/25/12 20:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/25/12 20:41	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/25/12 20:41	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/25/12 20:41	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/25/12 20:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/25/12 20:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/25/12 20:41	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/25/12 20:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/25/12 20:41	107-06-2	
1,1-Dichloroethene	**5.5**	ug/L	5.0	1		04/25/12 20:41	75-35-4	
cis-1,2-Dichloroethene	**3450**	ug/L	125	25		04/27/12 02:23	156-59-2	
trans-1,2-Dichloroethene	**27.8**	ug/L	5.0	1		04/25/12 20:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/25/12 20:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/25/12 20:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/25/12 20:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/25/12 20:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/25/12 20:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/25/12 20:41	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/25/12 20:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/25/12 20:41	108-10-1	
Styrene	ND	ug/L	5.0	1		04/25/12 20:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/25/12 20:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/25/12 20:41	127-18-4	
Toluene	ND	ug/L	5.0	1		04/25/12 20:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/25/12 20:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/25/12 20:41	79-00-5	
Trichloroethene	**7.7**	ug/L	5.0	1		04/25/12 20:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/25/12 20:41	75-69-4	
Vinyl chloride	**488**	ug/L	25.0	25		04/27/12 02:23	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/25/12 20:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/25/12 20:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		04/25/12 20:41	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		04/25/12 20:41	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		04/25/12 20:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 41569181.10000/Essex-Hope
Pace Project No.: 3067863

Sample: POST-CARB **Lab ID: 3067863003** Collected: 04/19/12 12:45 Received: 04/20/12 10:15 Matrix: Water

Comments: • This sample compostied from four vial 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		04/25/12 21:07	67-64-1	
Benzene	ND	ug/L	1.0	1		04/25/12 21:07	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/25/12 21:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/25/12 21:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/25/12 21:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/25/12 21:07	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/25/12 21:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/25/12 21:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/25/12 21:07	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/25/12 21:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/25/12 21:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/25/12 21:07	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/25/12 21:07	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/25/12 21:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/25/12 21:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/25/12 21:07	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/25/12 21:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/25/12 21:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/25/12 21:07	75-35-4	
cis-1,2-Dichloroethene	**169**	ug/L	5.0	1		04/25/12 21:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/25/12 21:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/25/12 21:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/25/12 21:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/25/12 21:07	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/25/12 21:07	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/25/12 21:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/25/12 21:07	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/25/12 21:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/25/12 21:07	108-10-1	
Styrene	ND	ug/L	5.0	1		04/25/12 21:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/25/12 21:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/25/12 21:07	127-18-4	
Toluene	ND	ug/L	5.0	1		04/25/12 21:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/25/12 21:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/25/12 21:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/25/12 21:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/25/12 21:07	75-69-4	
Vinyl chloride	**833**	ug/L	10.0	10		04/27/12 02:48	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/25/12 21:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/25/12 21:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	1		04/25/12 21:07	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		04/25/12 21:07	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		04/25/12 21:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 41569181.10000/Essex-Hope
Pace Project No.: 3067863

Sample: TB-01 **Lab ID: 3067863004** Collected: 04/19/12 00:01 Received: 04/20/12 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		04/25/12 13:14	67-64-1	
Benzene	ND	ug/L	1.0	1		04/25/12 13:14	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/25/12 13:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/25/12 13:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/25/12 13:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/25/12 13:14	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/25/12 13:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/25/12 13:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/25/12 13:14	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/25/12 13:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/25/12 13:14	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/25/12 13:14	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/25/12 13:14	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/25/12 13:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/25/12 13:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/25/12 13:14	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/25/12 13:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/25/12 13:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/25/12 13:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/25/12 13:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/25/12 13:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/25/12 13:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/25/12 13:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/25/12 13:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/25/12 13:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/25/12 13:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/25/12 13:14	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		04/25/12 13:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/25/12 13:14	108-10-1	
Styrene	ND	ug/L	5.0	1		04/25/12 13:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/25/12 13:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/25/12 13:14	127-18-4	
Toluene	ND	ug/L	5.0	1		04/25/12 13:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/25/12 13:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/25/12 13:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/25/12 13:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/25/12 13:14	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		04/25/12 13:14	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/25/12 13:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		04/25/12 13:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		04/25/12 13:14	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		04/25/12 13:14	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		04/25/12 13:14	2037-26-5	

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QUALITY CONTROL DATA

Project: 41569181.10000/Essex-Hope
Pace Project No.: 3067863

QC Batch: MSV/12566 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3067863001, 3067863002, 3067863003, 3067863004

METHOD BLANK: 433104 Matrix: Water
Associated Lab Samples: 3067863001, 3067863002, 3067863003, 3067863004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/25/12 12:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/25/12 12:47	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/25/12 12:47	
1,1-Dichloroethane	ug/L	ND	5.0	04/25/12 12:47	
1,1-Dichloroethene	ug/L	ND	5.0	04/25/12 12:47	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/25/12 12:47	
1,2-Dichloroethane	ug/L	ND	5.0	04/25/12 12:47	
1,2-Dichloropropane	ug/L	ND	5.0	04/25/12 12:47	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/25/12 12:47	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/25/12 12:47	
2-Butanone (MEK)	ug/L	ND	10.0	04/25/12 12:47	
2-Hexanone	ug/L	ND	10.0	04/25/12 12:47	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/25/12 12:47	
Acetone	ug/L	ND	10.0	04/25/12 12:47	
Benzene	ug/L	ND	1.0	04/25/12 12:47	
Bromodichloromethane	ug/L	ND	5.0	04/25/12 12:47	
Bromoform	ug/L	ND	5.0	04/25/12 12:47	
Bromomethane	ug/L	ND	5.0	04/25/12 12:47	
Carbon disulfide	ug/L	ND	5.0	04/25/12 12:47	
Carbon tetrachloride	ug/L	ND	5.0	04/25/12 12:47	
Chlorobenzene	ug/L	ND	5.0	04/25/12 12:47	
Chloroethane	ug/L	ND	5.0	04/25/12 12:47	
Chloroform	ug/L	ND	5.0	04/25/12 12:47	
Chloromethane	ug/L	ND	5.0	04/25/12 12:47	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/25/12 12:47	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/25/12 12:47	
Dibromochloromethane	ug/L	ND	5.0	04/25/12 12:47	
Ethylbenzene	ug/L	ND	5.0	04/25/12 12:47	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	04/25/12 12:47	
m&p-Xylene	ug/L	ND	5.0	04/25/12 12:47	
Methylene Chloride	ug/L	ND	5.0	04/25/12 12:47	B,C9
o-Xylene	ug/L	ND	5.0	04/25/12 12:47	
Styrene	ug/L	ND	5.0	04/25/12 12:47	
Tetrachloroethene	ug/L	ND	5.0	04/25/12 12:47	
Toluene	ug/L	ND	5.0	04/25/12 12:47	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/25/12 12:47	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/25/12 12:47	
Trichloroethene	ug/L	ND	5.0	04/25/12 12:47	
Trichlorofluoromethane	ug/L	ND	5.0	04/25/12 12:47	
Vinyl chloride	ug/L	ND	1.0	04/25/12 12:47	
1,2-Dichloroethane-d4 (S)	%	111	70-130	04/25/12 12:47	
4-Bromofluorobenzene (S)	%	101	70-130	04/25/12 12:47	
Toluene-d8 (S)	%	93	70-130	04/25/12 12:47	

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QUALITY CONTROL DATA

Project: 41569181.10000/Essex-Hope
Pace Project No.: 3067863

LABORATORY CONTROL SAMPLE: 433105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.7	94	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	16.5	83	64.6-121	
1,1,2-Trichloroethane	ug/L	20	16.4	82	75.6-120	
1,1-Dichloroethane	ug/L	20	17.8	89	68.5-122	
1,1-Dichloroethene	ug/L	20	16.9	84	57.1-120	
1,2-Dichlorobenzene	ug/L	20	16.6	83	69.6-120	
1,2-Dichloroethane	ug/L	20	17.6	88	60.5-133	
1,2-Dichloropropane	ug/L	20	15.7	78	71-120	
1,3-Dichlorobenzene	ug/L	20	16.2	81	68.4-121	
1,4-Dichlorobenzene	ug/L	20	16.7	83	68.5-123	
2-Butanone (MEK)	ug/L	20	23.0	115	55.7-138	
2-Hexanone	ug/L	20	21.4	107	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.0	95	64.5-121	
Acetone	ug/L	20	24.7	123	57.6-168	
Benzene	ug/L	20	16.2	81	69.8-120	
Bromodichloromethane	ug/L	20	15.2	76	66.5-120	
Bromoform	ug/L	20	15.8	79	61.1-120	
Bromomethane	ug/L	20	32.6	163	10.6-200	
Carbon disulfide	ug/L	20	20.5	103	60.2-122	
Carbon tetrachloride	ug/L	20	17.6	88	60.1-127	
Chlorobenzene	ug/L	20	16.0	80	72-120	
Chloroethane	ug/L	20	18.6	93	36.8-142	
Chloroform	ug/L	20	17.9	89	69-122	
Chloromethane	ug/L	20	16.9	85	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	17.4	87	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	15.7	78	74.3-120	
Dibromochloromethane	ug/L	20	17.0	85	66.1-120	
Ethylbenzene	ug/L	20	16.3	82	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	17.7	88	68.3-129	
m&p-Xylene	ug/L	40	33.0	82	70.4-130	
Methylene Chloride	ug/L	20	19.3	96	61.5-125	
o-Xylene	ug/L	20	15.9	79	70.6-127	
Styrene	ug/L	20	15.9	79	69.9-120	
Tetrachloroethene	ug/L	20	16.2	81	63.4-121	
Toluene	ug/L	20	16.0	80	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	17.4	87	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	16.1	80	71-120	
Trichloroethene	ug/L	20	15.8	79	65.9-120	
Trichlorofluoromethane	ug/L	20	19.9	99	44.8-137	
Vinyl chloride	ug/L	20	17.4	87	51-127	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			93	70-130	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 41569181.10000/Essex-Hope
Pace Project No.: 3067863

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 433106 433107

Parameter	Units	3067783004 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	20.4	19.8	102	99	64.3-127	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.2	15.8	81	79	64.6-121	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.0	16.1	85	80	75.6-120	6	
1,1-Dichloroethane	ug/L	ND	20	20	19.9	18.8	99	94	68.5-122	5	
1,1-Dichloroethene	ug/L	ND	20	20	19.9	19.3	99	96	57.1-120	3	
1,2-Dichlorobenzene	ug/L	ND	20	20	16.3	16.1	81	81	69.6-120	1	
1,2-Dichloroethane	ug/L	ND	20	20	19.0	18.0	95	90	60.5-133	5	
1,2-Dichloropropane	ug/L	ND	20	20	17.8	16.6	89	83	71-120	7	
1,3-Dichlorobenzene	ug/L	ND	20	20	16.8	16.5	84	82	68.4-121	2	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.3	15.8	81	79	68.5-123	3	
2-Butanone (MEK)	ug/L	ND	20	20	19.9	20.6	99	103	55.7-138	3	
2-Hexanone	ug/L	ND	20	20	19.7	20.2	98	101	67-133	3	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.9	18.2	89	91	64.5-121	2	
Acetone	ug/L	ND	20	20	10.9	14.1	55	70	57.6-168	25	M0
Benzene	ug/L	ND	20	20	18.0	17.1	90	85	69.8-120	5	
Bromodichloromethane	ug/L	ND	20	20	15.7	15.2	79	76	66.5-120	3	
Bromoform	ug/L	ND	20	20	13.6	14.0	68	70	61.1-120	3	
Bromomethane	ug/L	ND	20	20	23.5	24.1	118	121	10.6-200	2	
Carbon disulfide	ug/L	ND	20	20	15.1	15.0	75	75	60.2-122	.8	
Carbon tetrachloride	ug/L	ND	20	20	18.2	17.8	91	89	60.1-127	2	
Chlorobenzene	ug/L	ND	20	20	17.3	16.5	86	83	72-120	4	
Chloroethane	ug/L	ND	20	20	19.2	19.3	96	96	36.8-142	.3	
Chloroform	ug/L	ND	20	20	19.2	18.4	96	92	69-122	4	
Chloromethane	ug/L	ND	20	20	19.9	19.6	99	98	37.2-129	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.7	18.6	99	93	69.5-123	6	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.0	15.8	80	79	74.3-120	1	
Dibromochloromethane	ug/L	ND	20	20	16.7	16.2	84	81	66.1-120	3	
Ethylbenzene	ug/L	ND	20	20	17.7	17.4	89	87	70.9-124	2	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.4	18.5	97	93	68.3-129	4	
m&p-Xylene	ug/L	ND	40	40	35.3	34.3	88	86	70.4-130	3	
Methylene Chloride	ug/L	ND	20	20	19.4	18.7	97	94	61.5-125	4	
o-Xylene	ug/L	ND	20	20	17.5	17.2	87	86	70.6-127	2	
Styrene	ug/L	ND	20	20	16.8	16.2	84	81	69.9-120	4	
Tetrachloroethene	ug/L	ND	20	20	17.6	16.8	88	84	63.4-121	5	
Toluene	ug/L	ND	20	20	18.1	17.2	90	86	71.5-120	5	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.9	19.0	100	95	64.1-120	5	
trans-1,3-Dichloropropene	ug/L	ND	20	20	15.9	15.5	79	77	71-120	3	
Trichloroethene	ug/L	ND	20	20	17.4	16.6	87	83	65.9-120	5	
Trichlorofluoromethane	ug/L	ND	20	20	22.7	22.6	113	113	44.8-137	.3	
Vinyl chloride	ug/L	ND	20	20	19.5	19.4	97	97	51-127	.3	
1,2-Dichloroethane-d4 (S)	%						94	93	70-130		
4-Bromofluorobenzene (S)	%						99	100	70-130		
Toluene-d8 (S)	%						94	93	70-130		

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QUALIFIERS

Project: 41569181.10000/Essex-Hope
Pace Project No.: 3067863

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.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 41569181.10000/Essex-Hope
Pace Project No.: 3067863

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3067863001	**PRE-CARB**	EPA 8260	MSV/12566		
3067863002	**PRIMARY-EFF**	EPA 8260	MSV/12566		
3067863003	**POST-CARB**	EPA 8260	MSV/12566		
3067863004	**TB-01**	EPA 8260	MSV/12566		

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1534286

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 4, 501 HOLIDAY DR, STE. 300, PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4900 Fax: 412503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41569181
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41569181.10000

Section C Invoice Information:

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 3067863
1	PRE-CARB	WT	G			4.19.12	1105		3				X					Y	X		001
2	PRIMARY-EFF						1110		3				X						X		002
3	POST-CARB						1115		3				X						X		
4	POST-CARB						1145		3				X						X		003
5	POST-CARB						1215		3				X						X		
6	POST-CARB						1245		3				X						X		
7	TB-01	WT	G			4.19.12	—		2				X						X		004
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE	Valerie Sibeto/URS	4.19.12	~1330	Fed Ex Air	4.19.12	~1330				
					4/20/12	1015	1.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: Valerie DATE Signed (MM/DD/YY): 4.19.12

*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 Project # 30678603

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

Tracking #: 872644078682

Optional
Proj. Due Date:
Proj. Name:

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

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

Thermometer Used 5 (6) 7 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 1.8 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: VEL 4/20/12

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: WG		
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 / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15. TB
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:** 4-20-12

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)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 29, 2012

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

RE: Project: Essex-Hope Jamestown 41569181
Pace Project No.: 3069925

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on May 19, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
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Greensburg, PA 15601
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CERTIFICATIONS

Project: Essex-Hope Jamestown 41569181
Pace Project No.: 3069925

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI 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/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia VELAP (Cert # 460198)
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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ANALYTICAL RESULTS

Project: Essex-Hope Jamestown 41569181
Pace Project No.: 3069925

Sample: PRE-CARB **Lab ID: 3069925001** Collected: 05/18/12 10:40 Received: 05/19/12 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/21/12 15:51	67-64-1	
Benzene	**7.7**	ug/L	1.0	1		05/21/12 15:51	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/21/12 15:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/21/12 15:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/21/12 15:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/21/12 15:51	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/21/12 15:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/21/12 15:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/21/12 15:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/21/12 15:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/21/12 15:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/21/12 15:51	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/21/12 15:51	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/21/12 15:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/21/12 15:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/21/12 15:51	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/21/12 15:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/21/12 15:51	107-06-2	
1,1-Dichloroethene	**17.9**	ug/L	5.0	1		05/21/12 15:51	75-35-4	
cis-1,2-Dichloroethene	**4650**	ug/L	125	25		05/21/12 16:16	156-59-2	
trans-1,2-Dichloroethene	**84.1**	ug/L	5.0	1		05/21/12 15:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/21/12 15:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/21/12 15:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/21/12 15:51	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/21/12 15:51	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/21/12 15:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/21/12 15:51	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/21/12 15:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/21/12 15:51	108-10-1	
Styrene	ND	ug/L	5.0	1		05/21/12 15:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/21/12 15:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/21/12 15:51	127-18-4	
Toluene	ND	ug/L	5.0	1		05/21/12 15:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/21/12 15:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/21/12 15:51	79-00-5	
Trichloroethene	**839**	ug/L	125	25		05/21/12 16:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/21/12 15:51	75-69-4	
Vinyl chloride	**394**	ug/L	25.0	25		05/21/12 16:16	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/21/12 15:51	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/21/12 15:51	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		05/21/12 15:51	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		05/21/12 15:51	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/21/12 15:51	2037-26-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown 41569181
Pace Project No.: 3069925

Sample: PRIMARY-EFF **Lab ID: 3069925002** Collected: 05/18/12 10:45 Received: 05/19/12 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/21/12 16:41	67-64-1	
Benzene	ND	ug/L	1.0	1		05/21/12 16:41	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/21/12 16:41	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/21/12 16:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/21/12 16:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/21/12 16:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/21/12 16:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/21/12 16:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/21/12 16:41	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/21/12 16:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/21/12 16:41	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/21/12 16:41	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/21/12 16:41	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/21/12 16:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/21/12 16:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/21/12 16:41	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/21/12 16:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/21/12 16:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/21/12 16:41	75-35-4	
cis-1,2-Dichloroethene	**11.0**	ug/L	5.0	1		05/21/12 16:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/21/12 16:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/21/12 16:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/21/12 16:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/21/12 16:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/21/12 16:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/21/12 16:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/21/12 16:41	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/21/12 16:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/21/12 16:41	108-10-1	
Styrene	ND	ug/L	5.0	1		05/21/12 16:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/21/12 16:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/21/12 16:41	127-18-4	
Toluene	ND	ug/L	5.0	1		05/21/12 16:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/21/12 16:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/21/12 16:41	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/21/12 16:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/21/12 16:41	75-69-4	
Vinyl chloride	**4.5**	ug/L	1.0	1		05/21/12 16:41	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/21/12 16:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/21/12 16:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		05/21/12 16:41	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		05/21/12 16:41	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		05/21/12 16:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope Jamestown 41569181
Pace Project No.: 3069925

Sample: POST-CARB **Lab ID: 3069925003** Collected: 05/18/12 12:20 Received: 05/19/12 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/21/12 17:30	67-64-1	
Benzene	ND	ug/L	1.0	1		05/21/12 17:30	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/21/12 17:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/21/12 17:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/21/12 17:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/21/12 17:30	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/21/12 17:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/21/12 17:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/21/12 17:30	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/21/12 17:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/21/12 17:30	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/21/12 17:30	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/21/12 17:30	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/21/12 17:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/21/12 17:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/21/12 17:30	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/21/12 17:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/21/12 17:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/21/12 17:30	75-35-4	
cis-1,2-Dichloroethene	**49.5**	ug/L	5.0	1		05/21/12 17:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/21/12 17:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/21/12 17:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/21/12 17:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/21/12 17:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/21/12 17:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/21/12 17:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/21/12 17:30	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/21/12 17:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/21/12 17:30	108-10-1	
Styrene	ND	ug/L	5.0	1		05/21/12 17:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/21/12 17:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/21/12 17:30	127-18-4	
Toluene	ND	ug/L	5.0	1		05/21/12 17:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/21/12 17:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/21/12 17:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/21/12 17:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/21/12 17:30	75-69-4	
Vinyl chloride	**1.8**	ug/L	1.0	1		05/21/12 17:30	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/21/12 17:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/21/12 17:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		05/21/12 17:30	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		05/21/12 17:30	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		05/21/12 17:30	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope Jamestown 41569181
Pace Project No.: 3069925

Sample: TB-O1 **Lab ID: 3069925004** Collected: 05/18/12 00:01 Received: 05/19/12 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/21/12 13:24	67-64-1	
Benzene	ND	ug/L	1.0	1		05/21/12 13:24	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/21/12 13:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/21/12 13:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/21/12 13:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/21/12 13:24	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/21/12 13:24	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/21/12 13:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/21/12 13:24	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/21/12 13:24	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/21/12 13:24	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/21/12 13:24	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/21/12 13:24	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/21/12 13:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/21/12 13:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/21/12 13:24	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/21/12 13:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/21/12 13:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/21/12 13:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/21/12 13:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/21/12 13:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/21/12 13:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/21/12 13:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/21/12 13:24	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/21/12 13:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/21/12 13:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/21/12 13:24	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		05/21/12 13:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/21/12 13:24	108-10-1	
Styrene	ND	ug/L	5.0	1		05/21/12 13:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/21/12 13:24	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/21/12 13:24	127-18-4	
Toluene	ND	ug/L	5.0	1		05/21/12 13:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/21/12 13:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/21/12 13:24	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/21/12 13:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/21/12 13:24	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		05/21/12 13:24	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/21/12 13:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/21/12 13:24	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/21/12 13:24	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		05/21/12 13:24	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		05/21/12 13:24	2037-26-5	

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QUALITY CONTROL DATA

Project: Essex-Hope Jamestown 41569181
Pace Project No.: 3069925

QC Batch: MSV/12793 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3069925001, 3069925002, 3069925003, 3069925004

METHOD BLANK: 443535 Matrix: Water
Associated Lab Samples: 3069925001, 3069925002, 3069925003, 3069925004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/21/12 12:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/21/12 12:34	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/21/12 12:34	
1,1-Dichloroethane	ug/L	ND	5.0	05/21/12 12:34	
1,1-Dichloroethene	ug/L	ND	5.0	05/21/12 12:34	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/21/12 12:34	
1,2-Dichloroethane	ug/L	ND	5.0	05/21/12 12:34	
1,2-Dichloropropane	ug/L	ND	5.0	05/21/12 12:34	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/21/12 12:34	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/21/12 12:34	
2-Butanone (MEK)	ug/L	ND	10.0	05/21/12 12:34	
2-Hexanone	ug/L	ND	10.0	05/21/12 12:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/21/12 12:34	
Acetone	ug/L	ND	10.0	05/21/12 12:34	
Benzene	ug/L	ND	1.0	05/21/12 12:34	
Bromodichloromethane	ug/L	ND	5.0	05/21/12 12:34	
Bromoform	ug/L	ND	5.0	05/21/12 12:34	
Bromomethane	ug/L	ND	5.0	05/21/12 12:34	
Carbon disulfide	ug/L	ND	5.0	05/21/12 12:34	
Carbon tetrachloride	ug/L	ND	5.0	05/21/12 12:34	
Chlorobenzene	ug/L	ND	5.0	05/21/12 12:34	
Chloroethane	ug/L	ND	5.0	05/21/12 12:34	
Chloroform	ug/L	ND	5.0	05/21/12 12:34	
Chloromethane	ug/L	ND	5.0	05/21/12 12:34	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/21/12 12:34	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/21/12 12:34	
Dibromochloromethane	ug/L	ND	5.0	05/21/12 12:34	
Ethylbenzene	ug/L	ND	5.0	05/21/12 12:34	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/21/12 12:34	
m&p-Xylene	ug/L	ND	5.0	05/21/12 12:34	
Methylene Chloride	ug/L	ND	5.0	05/21/12 12:34	
o-Xylene	ug/L	ND	5.0	05/21/12 12:34	
Styrene	ug/L	ND	5.0	05/21/12 12:34	
Tetrachloroethene	ug/L	ND	5.0	05/21/12 12:34	
Toluene	ug/L	ND	5.0	05/21/12 12:34	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/21/12 12:34	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/21/12 12:34	
Trichloroethene	ug/L	ND	5.0	05/21/12 12:34	
Trichlorofluoromethane	ug/L	ND	5.0	05/21/12 12:34	
Vinyl chloride	ug/L	ND	1.0	05/21/12 12:34	
1,2-Dichloroethane-d4 (S)	%	102	70-130	05/21/12 12:34	
4-Bromofluorobenzene (S)	%	96	70-130	05/21/12 12:34	
Toluene-d8 (S)	%	100	70-130	05/21/12 12:34	

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QUALITY CONTROL DATA

Project: Essex-Hope Jamestown 41569181
Pace Project No.: 3069925

LABORATORY CONTROL SAMPLE: 443536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	23.3	117	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	21.0	105	64.6-121	
1,1,2-Trichloroethane	ug/L	20	21.7	108	75.6-120	
1,1-Dichloroethane	ug/L	20	23.0	115	68.5-122	
1,1-Dichloroethene	ug/L	20	22.4	112	57.1-120	
1,2-Dichlorobenzene	ug/L	20	22.4	112	69.6-120	
1,2-Dichloroethane	ug/L	20	22.8	114	60.5-133	
1,2-Dichloropropane	ug/L	20	20.7	104	71-120	
1,3-Dichlorobenzene	ug/L	20	21.9	110	68.4-121	
1,4-Dichlorobenzene	ug/L	20	21.8	109	68.5-123	
2-Butanone (MEK)	ug/L	20	26.5	132	55.7-138	
2-Hexanone	ug/L	20	20.4	102	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.5	102	64.5-121	
Acetone	ug/L	20	20.1	100	57.6-168	
Benzene	ug/L	20	21.4	107	69.8-120	
Bromodichloromethane	ug/L	20	21.0	105	66.5-120	
Bromoform	ug/L	20	18.6	93	61.1-120	
Bromomethane	ug/L	20	24.0	120	10.6-200	
Carbon disulfide	ug/L	20	25.1	126	60.2-122	L3
Carbon tetrachloride	ug/L	20	22.6	113	60.1-127	
Chlorobenzene	ug/L	20	20.3	102	72-120	
Chloroethane	ug/L	20	24.4	122	36.8-142	
Chloroform	ug/L	20	22.3	112	69-122	
Chloromethane	ug/L	20	21.9	110	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	22.5	113	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	21.4	107	74.3-120	
Dibromochloromethane	ug/L	20	19.3	96	66.1-120	
Ethylbenzene	ug/L	20	20.7	104	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	24.4	122	68.3-129	
m&p-Xylene	ug/L	40	41.1	103	70.4-130	
Methylene Chloride	ug/L	20	24.2	121	61.5-125	
o-Xylene	ug/L	20	21.0	105	70.6-127	
Styrene	ug/L	20	20.1	101	69.9-120	
Tetrachloroethene	ug/L	20	20.9	105	63.4-121	
Toluene	ug/L	20	21.2	106	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	22.1	111	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	71-120	
Trichloroethene	ug/L	20	20.5	102	65.9-120	
Trichlorofluoromethane	ug/L	20	23.4	117	44.8-137	
Vinyl chloride	ug/L	20	23.2	116	51-127	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			96	70-130	

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QUALIFIERS

Project: Essex-Hope Jamestown 41569181
Pace Project No.: 3069925

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.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/12793

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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.

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope Jamestown 41569181
Pace Project No.: 3069925

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3069925001	**PRE-CARB**	EPA 8260	MSV/12793		
3069925002	**PRIMARY-EFF**	EPA 8260	MSV/12793		
3069925003	**POST-CARB**	EPA 8260	MSV/12793		
3069925004	**TB-O1**	EPA 8260	MSV/12793		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

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1522000

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 4, 501 HOLIDAY DR, STE 300 PITTSBURGH, PA 15220
Email To:
Phone: 412-5034700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41569181
Project Name: ESSEX/HOPE JAMESTOWN NY
Project Number: 41569181

Section C Invoice Information:

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 30609925
1	PRE-CARB	WT	G			5.18.12	1040		3				X						X		601
2	PRIMARY-EFF						1045		3				X						X		2
3	POST-CARB						1050		3				X						X		3
4	POST-CARB						1120		3				X						X		4
5	POST-CARB						1150		3				X						X		5
6	POST-CARB						1220		3				X						X		6
7	TB-01	WT	G			5.18.12	—		2				X						X		4
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
COMPOSITE FOUR (4)	Valerie Sibeto / URS	5.18.12	1300	Fed Ex	5.18.12	1300
POST-CARB SAMPLES IN					5/19	1130
LAB AND REPORT AS						
POST-CARB COMPOSITE						

SAMPLE CONDITIONS			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3.9	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: Valerie Sibeto DATE Signed (MM/DD/YY): 5.18.12

*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 Project # 30069925

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

Tracking #: 872640750893

Optional
Proj. Due Date:
Proj. Name:

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

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

Thermometer Used (5) 6 7 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.9 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 5/19

Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A
Rush Turn Around Time Requested:	☐Yes	☐No	☐N/A
Sufficient Volume:	☑Yes	☐No	☐N/A
Correct Containers Used:	☑Yes	☐No	☐N/A
-Pace Containers Used:	☑Yes	☐No	☐N/A
Containers Intact:	☑Yes	☐No	☐N/A
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A
Sample Labels match COC:	☑Yes	☐No	☐N/A
-Includes date/time/ID/Analysis Matrix: WT			
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A
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	
Samples checked for dechlorination:	☐Yes	☐No	☑N/A
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A
Trip Blank Present:	☑Yes	☐No	☐N/A
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A
Pace Trip Blank Lot # (if purchased):			

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13. Initial when completed: [illegible] Lot # of added preservative:
14.
15.
16.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 5-21-12

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)

Pace Analytical

Project Number: 30609425

Client Name: URS

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001-6	WT													3										
007	↓													2										

SCURF Back (C016-4 15May2012).xls

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 26, 2012

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

RE: Project: 41569181.10000 Essex/Hope
Pace Project No.: 3071251

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

David A. Pichette for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 41569181.10000 Essex/Hope
Pace Project No.: 3071251

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI 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/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia VELAP (Cert # 460198)
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 41569181.10000 Essex/Hope
Pace Project No.: 3071251

Sample: PRE-CARB **Lab ID: 3071251001** Collected: 06/11/12 14:00 Received: 06/12/12 16:50 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		06/15/12 23:33	67-64-1	
Benzene	**8.2**	ug/L	1.0	1		06/15/12 23:33	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/15/12 23:33	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/15/12 23:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/15/12 23:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/15/12 23:33	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/15/12 23:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/15/12 23:33	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/15/12 23:33	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/15/12 23:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/15/12 23:33	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/15/12 23:33	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/15/12 23:33	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 23:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 23:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 23:33	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/15/12 23:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/15/12 23:33	107-06-2	
1,1-Dichloroethene	**18.5**	ug/L	5.0	1		06/15/12 23:33	75-35-4	
cis-1,2-Dichloroethene	**5380**	ug/L	125	25		06/15/12 23:59	156-59-2	
trans-1,2-Dichloroethene	**99.3**	ug/L	5.0	1		06/15/12 23:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/15/12 23:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/12 23:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/12 23:33	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/15/12 23:33	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/15/12 23:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/15/12 23:33	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		06/15/12 23:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/15/12 23:33	108-10-1	
Styrene	ND	ug/L	5.0	1		06/15/12 23:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/15/12 23:33	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/15/12 23:33	127-18-4	
Toluene	ND	ug/L	5.0	1		06/15/12 23:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/15/12 23:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/15/12 23:33	79-00-5	
Trichloroethene	**817**	ug/L	125	25		06/15/12 23:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/15/12 23:33	75-69-4	
Vinyl chloride	**426**	ug/L	25.0	25		06/15/12 23:59	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/15/12 23:33	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/15/12 23:33	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/15/12 23:33	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		06/15/12 23:33	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/15/12 23:33	2037-26-5	

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 41569181.10000 Essex/Hope
Pace Project No.: 3071251

Sample: PRIMARY-EFF **Lab ID: 3071251002** Collected: 06/11/12 14:05 Received: 06/12/12 16:50 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		06/15/12 22:15	67-64-1	
Benzene	ND	ug/L	1.0	1		06/15/12 22:15	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/15/12 22:15	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/15/12 22:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/15/12 22:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/15/12 22:15	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/15/12 22:15	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/15/12 22:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/15/12 22:15	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/15/12 22:15	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/15/12 22:15	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/15/12 22:15	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/15/12 22:15	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 22:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 22:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 22:15	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/15/12 22:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/15/12 22:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/15/12 22:15	75-35-4	
cis-1,2-Dichloroethene	**11.4**	ug/L	5.0	1		06/15/12 22:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/15/12 22:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/15/12 22:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/12 22:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/12 22:15	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/15/12 22:15	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/15/12 22:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/15/12 22:15	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		06/15/12 22:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/15/12 22:15	108-10-1	
Styrene	ND	ug/L	5.0	1		06/15/12 22:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/15/12 22:15	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/15/12 22:15	127-18-4	
Toluene	ND	ug/L	5.0	1		06/15/12 22:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/15/12 22:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/15/12 22:15	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/15/12 22:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/15/12 22:15	75-69-4	
Vinyl chloride	**6.2**	ug/L	1.0	1		06/15/12 22:15	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/15/12 22:15	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/15/12 22:15	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		06/15/12 22:15	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		06/15/12 22:15	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		06/15/12 22:15	2037-26-5	

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 41569181.10000 Essex/Hope
Pace Project No.: 3071251

Sample: POST-CARB **Lab ID: 3071251003** Collected: 06/11/12 15:40 Received: 06/12/12 16:50 Matrix: Water

Comments: • Post Carbon Samples collected at 14:10, 14:40, 15:10, and 15:40.
• 8260B VOA: The sample was composited from four vials 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		06/15/12 23:07	67-64-1	
Benzene	ND	ug/L	1.0	1		06/15/12 23:07	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/15/12 23:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/15/12 23:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/15/12 23:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/15/12 23:07	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/15/12 23:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/15/12 23:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/15/12 23:07	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/15/12 23:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/15/12 23:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/15/12 23:07	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/15/12 23:07	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 23:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 23:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 23:07	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/15/12 23:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/15/12 23:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/15/12 23:07	75-35-4	
cis-1,2-Dichloroethene	**34.0**	ug/L	5.0	1		06/15/12 23:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/15/12 23:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/15/12 23:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/12 23:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/12 23:07	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/15/12 23:07	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/15/12 23:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/15/12 23:07	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		06/15/12 23:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/15/12 23:07	108-10-1	
Styrene	ND	ug/L	5.0	1		06/15/12 23:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/15/12 23:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/15/12 23:07	127-18-4	
Toluene	ND	ug/L	5.0	1		06/15/12 23:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/15/12 23:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/15/12 23:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/15/12 23:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/15/12 23:07	75-69-4	
Vinyl chloride	**1.3**	ug/L	1.0	1		06/15/12 23:07	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/15/12 23:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/15/12 23:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		06/15/12 23:07	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		06/15/12 23:07	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		06/15/12 23:07	2037-26-5	

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: 41569181.10000 Essex/Hope
Pace Project No.: 3071251

Sample: TB-01 **Lab ID: 3071251004** Collected: 06/11/12 00:01 Received: 06/12/12 16:50 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		06/15/12 14:50	67-64-1	
Benzene	ND	ug/L	1.0	1		06/15/12 14:50	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/15/12 14:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/15/12 14:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/15/12 14:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/15/12 14:50	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/15/12 14:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/15/12 14:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/15/12 14:50	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/15/12 14:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/15/12 14:50	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/15/12 14:50	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/15/12 14:50	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 14:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 14:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/15/12 14:50	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/15/12 14:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/15/12 14:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/15/12 14:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/15/12 14:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/15/12 14:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/15/12 14:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/12 14:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/12 14:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/15/12 14:50	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/15/12 14:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/15/12 14:50	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		06/15/12 14:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/15/12 14:50	108-10-1	
Styrene	ND	ug/L	5.0	1		06/15/12 14:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/15/12 14:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/15/12 14:50	127-18-4	
Toluene	ND	ug/L	5.0	1		06/15/12 14:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/15/12 14:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/15/12 14:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/15/12 14:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/15/12 14:50	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		06/15/12 14:50	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/15/12 14:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/15/12 14:50	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		06/15/12 14:50	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		06/15/12 14:50	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/15/12 14:50	2037-26-5	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 41569181.10000 Essex/Hope
Pace Project No.: 3071251

QC Batch: MSV/13018 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3071251001, 3071251002, 3071251003, 3071251004

METHOD BLANK: 452606 Matrix: Water
Associated Lab Samples: 3071251001, 3071251002, 3071251003, 3071251004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/15/12 14:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/15/12 14:24	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/15/12 14:24	
1,1-Dichloroethane	ug/L	ND	5.0	06/15/12 14:24	
1,1-Dichloroethene	ug/L	ND	5.0	06/15/12 14:24	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/15/12 14:24	
1,2-Dichloroethane	ug/L	ND	5.0	06/15/12 14:24	
1,2-Dichloropropane	ug/L	ND	5.0	06/15/12 14:24	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/15/12 14:24	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/15/12 14:24	
2-Butanone (MEK)	ug/L	ND	10.0	06/15/12 14:24	
2-Hexanone	ug/L	ND	10.0	06/15/12 14:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/15/12 14:24	
Acetone	ug/L	ND	10.0	06/15/12 14:24	
Benzene	ug/L	ND	1.0	06/15/12 14:24	
Bromodichloromethane	ug/L	ND	5.0	06/15/12 14:24	
Bromoform	ug/L	ND	5.0	06/15/12 14:24	
Bromomethane	ug/L	ND	5.0	06/15/12 14:24	
Carbon disulfide	ug/L	ND	5.0	06/15/12 14:24	
Carbon tetrachloride	ug/L	ND	5.0	06/15/12 14:24	
Chlorobenzene	ug/L	ND	5.0	06/15/12 14:24	
Chloroethane	ug/L	ND	5.0	06/15/12 14:24	
Chloroform	ug/L	ND	5.0	06/15/12 14:24	
Chloromethane	ug/L	ND	5.0	06/15/12 14:24	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/15/12 14:24	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/15/12 14:24	
Dibromochloromethane	ug/L	ND	5.0	06/15/12 14:24	
Ethylbenzene	ug/L	ND	5.0	06/15/12 14:24	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/15/12 14:24	
m&p-Xylene	ug/L	ND	5.0	06/15/12 14:24	
Methylene Chloride	ug/L	ND	5.0	06/15/12 14:24	B,C9
o-Xylene	ug/L	ND	5.0	06/15/12 14:24	
Styrene	ug/L	ND	5.0	06/15/12 14:24	
Tetrachloroethene	ug/L	ND	5.0	06/15/12 14:24	
Toluene	ug/L	ND	5.0	06/15/12 14:24	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/15/12 14:24	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/15/12 14:24	
Trichloroethene	ug/L	ND	5.0	06/15/12 14:24	
Trichlorofluoromethane	ug/L	ND	5.0	06/15/12 14:24	
Vinyl chloride	ug/L	ND	1.0	06/15/12 14:24	
1,2-Dichloroethane-d4 (S)	%	106	70-130	06/15/12 14:24	
4-Bromofluorobenzene (S)	%	95	70-130	06/15/12 14:24	
Toluene-d8 (S)	%	98	70-130	06/15/12 14:24	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 41569181.10000 Essex/Hope
Pace Project No.: 3071251

LABORATORY CONTROL SAMPLE: 452607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	64.3-127	
1,1,2,2-Tetrachloroethane	ug/L	20	18.3	91	64.6-121	
1,1,2-Trichloroethane	ug/L	20	19.3	96	75.6-120	
1,1-Dichloroethane	ug/L	20	19.0	95	68.5-122	
1,1-Dichloroethene	ug/L	20	18.5	93	57.1-120	
1,2-Dichlorobenzene	ug/L	20	18.2	91	69.6-120	
1,2-Dichloroethane	ug/L	20	19.2	96	60.5-133	
1,2-Dichloropropane	ug/L	20	19.3	96	71-120	
1,3-Dichlorobenzene	ug/L	20	18.1	91	68.4-121	
1,4-Dichlorobenzene	ug/L	20	18.1	91	68.5-123	
2-Butanone (MEK)	ug/L	20	21.1	105	55.7-138	
2-Hexanone	ug/L	20	21.0	105	67-133	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.7	99	64.5-121	
Acetone	ug/L	20	23.9	120	57.6-168	
Benzene	ug/L	20	19.2	96	69.8-120	
Bromodichloromethane	ug/L	20	19.3	96	66.5-120	
Bromoform	ug/L	20	18.3	92	61.1-120	
Bromomethane	ug/L	20	17.1	86	10.6-200	
Carbon disulfide	ug/L	20	21.7	109	60.2-122	
Carbon tetrachloride	ug/L	20	18.6	93	60.1-127	
Chlorobenzene	ug/L	20	18.4	92	72-120	
Chloroethane	ug/L	20	18.7	93	36.8-142	
Chloroform	ug/L	20	18.1	91	69-122	
Chloromethane	ug/L	20	20.1	101	37.2-129	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	69.5-123	
cis-1,3-Dichloropropene	ug/L	20	19.7	98	74.3-120	
Dibromochloromethane	ug/L	20	18.2	91	66.1-120	
Ethylbenzene	ug/L	20	17.8	89	70.9-124	
Isopropylbenzene (Cumene)	ug/L	20	19.7	99	68.3-129	
m&p-Xylene	ug/L	40	36.7	92	70.4-130	
Methylene Chloride	ug/L	20	21.1	105	61.5-125	
o-Xylene	ug/L	20	18.5	92	70.6-127	
Styrene	ug/L	20	19.1	95	69.9-120	
Tetrachloroethene	ug/L	20	17.7	89	63.4-121	
Toluene	ug/L	20	18.7	93	71.5-120	
trans-1,2-Dichloroethene	ug/L	20	18.9	94	64.1-120	
trans-1,3-Dichloropropene	ug/L	20	19.4	97	71-120	
Trichloroethene	ug/L	20	18.2	91	65.9-120	
Trichlorofluoromethane	ug/L	20	20.0	100	44.8-137	
Vinyl chloride	ug/L	20	19.2	96	51-127	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 41569181.10000 Essex/Hope
Pace Project No.: 3071251

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 452608 452609

Parameter	Units	3071251002 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	18.0	19.4	90	97	64.3-127	7	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.7	17.6	83	88	64.6-121	5	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.7	18.6	89	93	75.6-120	5	
1,1-Dichloroethane	ug/L	ND	20	20	18.2	19.3	91	96	68.5-122	6	
1,1-Dichloroethene	ug/L	ND	20	20	19.1	19.6	95	98	57.1-120	3	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.8	16.9	79	84	69.6-120	7	
1,2-Dichloroethane	ug/L	ND	20	20	18.7	19.8	93	99	60.5-133	6	
1,2-Dichloropropane	ug/L	ND	20	20	18.4	18.9	92	94	71-120	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	16.3	16.8	81	84	68.4-121	3	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.5	16.9	82	84	68.5-123	2	
2-Butanone (MEK)	ug/L	ND	20	20	19.8	22.6	99	113	55.7-138	13	
2-Hexanone	ug/L	ND	20	20	17.9	20.8	90	104	67-133	15	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	18.3	20.2	91	101	64.5-121	10	
Acetone	ug/L	ND	20	20	18.7	22.9	74	94	57.6-168	20	
Benzene	ug/L	ND	20	20	18.4	19.1	92	96	69.8-120	4	
Bromodichloromethane	ug/L	ND	20	20	17.7	17.9	89	89	66.5-120	1	
Bromoform	ug/L	ND	20	20	15.4	15.7	77	78	61.1-120	2	
Bromomethane	ug/L	ND	20	20	5.4	7.4	27	37	10.6-200	30	
Carbon disulfide	ug/L	ND	20	20	20.3	17.8	102	89	60.2-122	14	
Carbon tetrachloride	ug/L	ND	20	20	17.7	18.1	88	90	60.1-127	2	
Chlorobenzene	ug/L	ND	20	20	16.9	18.0	85	90	72-120	6	
Chloroethane	ug/L	ND	20	20	21.1	23.1	105	116	36.8-142	9	
Chloroform	ug/L	ND	20	20	17.1	17.8	86	89	69-122	4	
Chloromethane	ug/L	ND	20	20	20.1	22.5	100	112	37.2-129	11	
cis-1,2-Dichloroethene	ug/L	11.4	20	20	29.7	31.3	91	99	69.5-123	5	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.5	17.5	83	87	74.3-120	6	
Dibromochloromethane	ug/L	ND	20	20	15.8	15.8	79	79	66.1-120	.1	
Ethylbenzene	ug/L	ND	20	20	17.2	17.6	86	88	70.9-124	2	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	18.4	18.9	92	95	68.3-129	3	
m&p-Xylene	ug/L	ND	40	40	34.7	36.5	84	89	70.4-130	5	
Methylene Chloride	ug/L	ND	20	20	18.7	19.9	94	100	61.5-125	6	
o-Xylene	ug/L	ND	20	20	16.9	17.3	85	87	70.6-127	2	
Styrene	ug/L	ND	20	20	17.0	17.7	85	89	69.9-120	4	
Tetrachloroethene	ug/L	ND	20	20	17.4	17.8	87	89	63.4-121	2	
Toluene	ug/L	ND	20	20	17.4	18.3	87	92	71.5-120	5	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.6	19.3	93	96	64.1-120	3	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.9	17.8	85	89	71-120	5	
Trichloroethene	ug/L	ND	20	20	17.6	17.6	88	88	65.9-120	.02	
Trichlorofluoromethane	ug/L	ND	20	20	24.5	25.7	123	128	44.8-137	5	
Vinyl chloride	ug/L	6.2	20	20	28.3	29.6	111	117	51-127	4	
1,2-Dichloroethane-d4 (S)	%						113	115	70-130		
4-Bromofluorobenzene (S)	%						97	98	70-130		
Toluene-d8 (S)	%						101	101	70-130		

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 41569181.10000 Essex/Hope
Pace Project No.: 3071251

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 41569181.10000 Essex/Hope
Pace Project No.: 3071251

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3071251001	**PRE-CARB**	EPA 8260	MSV/13018		
3071251002	**PRIMARY-EFF**	EPA 8260	MSV/13018		
3071251003	**POST-CARB**	EPA 8260	MSV/13018		
3071251004	**TB-01**	EPA 8260	MSV/13018		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1515758

Section A Required Client Information:

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

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41569181
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41569181.10000

Section C Invoice Information:

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			6.11.12	1400		3				X					X		01
2	PRIMARY-EFF						1405		3				X					X		02
3	POST-CARB						1410		3				X					X		03
4	POST-CARB						1440		3				X					X		
5	POST-CARB						1510		3				X					X		
6	POST-CARB						1540		3				X					X		
7	TB-01	WT	G			6.11.12	—		2				X					X		04
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COMPOSITE FOUR (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE	Valerie/URS	6.11.12	1630	Fedex Air	6.11.12	1630	4.1 / 4 / N / 4
					6/12/12	0845	

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: Valerie
DATE Signed (MM/DD/YY): 6.11.12

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

Pace Analytical

Client Name: WRS Project # 3071251

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

Tracking #: 577264025 6908

Optional
Proj. Due Date:
Proj. Name:

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

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

Thermometer Used 5 6 D Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 4.1 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: VER 6/12/12

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: WS		
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 VER / 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:** 6/13/12

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)

Pace Analytical

Project Number: 30712S1

Client Name: URS

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	WT													3										
002	↓													4										
003														R										
004														2										
005																								

SCURF Back (C016-4 15May2012).xls