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f: 907015

September 4, 2002

Mr. Maurice Moore
Division of Hazardous Waste Remediation
NYSDEC
270 Michigan Ave.
Buffalo, NY 14203-2999

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**Subject: 2nd Quarter 2002 Performance Monitoring Report
Essex/Hope Site — Jamestown, New York
URS Project No. 801419**

Dear Mr. Moore:

This letter report is a summary of the 2nd Quarter 2002 operational performance for the remedial system at the above-referenced site in accordance with the June 1997 Performance Monitoring Plan (PMP) prepared by Radian International LLC. During the quarter approximately 390,160 gallons of water was treated and discharged to the City of Jamestown POTW from the site. The following sections discuss the data on groundwater quality sampling and groundwater flow. No soil sampling related to the system performance monitoring was conducted during this reporting period.

GROUNDWATER FLOW EVALUATION

Water level measurements were taken on May 7, 2002, May 22, 2002 and June 25, 2002 during the reporting quarter. Water level data is provided in Appendix A of this report. Groundwater contour maps representative of pumping conditions during the reporting period are provided as Figures 1 and 2. The following discussions review the flow conditions of the shallow (water table) and Lower Fine Sand (deep) water-bearing zones.

The shallow recovery wells (RW-1S, -2S, -3S, -4S and RW-5S) were redeveloped by jetting during the month of June 2002 to maintain pumping efficiency in the shallow zone. The pump and discharge piping of RW-2D was cleaned out by treatment using phosphoric acid in May 2002 to remove plugging of the equipment by the accumulation of ferric oxide precipitates.

Shallow Water-Bearing Zone

Water table contour maps representing pumping conditions in the upper water-bearing zone on May 22, 2002 is provided as Figure 1. Groundwater drawdown conditions for the 2nd Quarter were similar to the 1st Quarter of 2002, with groundwater elevations remaining relatively consistent. Shallow groundwater was extracted at an average rate of 1.24 gallons per minute (gpm) from the NPL Area, 0.03 gpm from the AST/UST Area and 0.21 gpm from the UST Area.

Lower Fine Sand Water-Bearing Zone

Deep zone groundwater extraction is conducted from Recovery Well RW-2D in the NPL Area. No groundwater is pumped from RW-1D, which was shut down in June of 1999 with the approval of the NYSDEC. A potentiometric surface contour map representing pumping conditions on May 22, 2002 is provided as Figures 2. Pumping efficiency degraded at RW-2D during the month of April 2002, due to restriction of groundwater flow by precipitate buildup in the pump and discharge piping.

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After clean out of the equipment the week of May 6, 2002, the cone of depression around RW-2D re-developed to a configuration similar to the 1st Quarter conditions. The cone of depression increased by June of 2002 with potentiometric groundwater elevations approximately 1-foot lower in elevation. Groundwater was extracted from the deep zone at a rate between 1.6 to 1.9 gpm over the reporting period.

WATER QUALITY RESULTS

Second Quarter 2002 performance monitoring included quarterly sampling of all recovery wells and monthly influent and effluent sampling of the onsite pre-treatment system. The recovery well samples were taken on July 5, 2002, the monthly influent/effluent samples were collected on April 23, 2002, May 30, 2002, and June 28, 2002. Pace Analytical Laboratories of Export, Pennsylvania analyzed the samples for volatile organic compounds (VOC's) by US EPA Method 8260B. The recovery well analytical results are summarized in Table 1. Historical analytical results for individual recovery wells are summarized in Tables 2 through 8. Table 9 summarizes the monthly influent and effluent sample results. Copies of the laboratory data packages for the quarterly samples and the monthly treatment plant influent and effluent samples are found in Appendix B. The following sections discuss the analytical data for each remedial area.

NPL Area – Shallow Zone

Constituents detected in RW-1S (Table 2) during the July sampling round included: acetone (14 ug/L), cis-1,2-DCE (59 ug/L), TCE (360 ug/L), toluene (38 ug/L), ethylbenzene (77 ug/L) and xylenes (480 ug/L) - all other VOC's were non-detect. Acetone has been periodically detected at this location at low levels. Cis-1,2-DCE concentrations are the lowest since July 2001 where concentrations have ranged from 530 to 1,200 ug/L. TCE concentrations showed an order of magnitude decrease from the last several rounds after July 2001 where concentrations ranged from 1,500 to 2,300 ug/L. Toluene, ethylbenzene and xylenes are not typically encountered at this well location, the probable source of these constituents is groundwater capture from the UST Area. Vinyl Chloride, which showed increasing concentrations after the Pilot Permeable Reactive Wall (PRW) installation in 2000 was below detection limits for this round.

Constituents detected at RW-2S (Table 3) included cis-1,2-DCE (6.6 ug/L), TCE (200 ug/L) and xylenes (6.5 ug/L) – all other VOCs were below detection limits. Cis-1,2-DCE has shown a decreasing trend from 620 ug/L since it was first analyzed for in March 2001. TCE concentrations are higher for this round as compared to the two previous sampling rounds where concentrations were detected at 22 and 7.7 ug/L. Overall, TCE concentrations have declined as compared to the period between November 2000 and September 2001 where values ranged between 1,500 to 6,400 ug/L. Xylenes have periodically been detected at this well at low concentrations.

NPL Area – Lower Fine Sand Water Bearing Zone

Constituents detected at RW-1D (Table 7) included 1,1-DCE (15 ug/L), cis-1,2-DCE (2,300 ug/L), trans-1,2-DCE (9.4 ug/L), TCE (8.1 ug/L), benzene (6.6 ug/L) and xylenes (15 ug/L) - all other VOC's were non-detect. Cis-1,2-DCE concentrations decreased from the last quarter sampling where concentrations were detected at 3,000 ug/L. 1,1-DCE, trans-1,2-DCE, TCE and benzene concentrations have remained similar to historic data when these constituents are periodically detected. Xylenes, typically below detection limits, were positively detected for the first time at 15 ug/L.

Vinyl chloride (reported at less than 100 ug/L) has shown a decreasing trend in concentration at RW-1D since the beginning of 2002 where it was detected at 360 ug/L.

Compounds detected at RW-2D (Table 8) included: vinyl chloride (55 ug/L), cis-1,2-DCE (50 ug/L), trans-1,2-DCE (7.8 ug/L), 2-Butanone (28 ug/L), benzene (9.1 ug/L) and xylenes (12 ug/L). This is the first sampling round where TCE has been reduced to below a detection limit of 5 ug/L since the installation of the pilot permeable reactive wall (PRW) around the recovery well. Cis-1,2-DCE and vinyl chloride have both shown an order of magnitude decrease in concentration since the 1st Quarter sampling. Trans-1,2-DCE has decreased to levels consistent with pre-PRW installation. Xylenes and 2-Butanone levels are consistent with previous periodic detection at this location.

AST/UST Area

Constituents detected at RW-3S (Table 4) included isopropylbenzene (15 ug/L), toluene (140 ug/L), ethylbenzene (97 ug/L) and xylenes (95 ug/L) - all other VOCs were non-detect. Toluene has not been detected at this location since August 2000 at 2 ug/L. The last time toluene concentrations were detected at equivalent values was in 1998. All other compounds detected were similar in concentration to historical patterns.

UST Area

Constituents detected at RW-4S (Table 5) included acetone (25 ug/L), isopropylbenzene (190 ug/L), benzene (21 ug/L), toluene (7,000 ug/L), ethylbenzene (14,000 ug/L) and xylenes (101,000 ug/L) - all other VOC's were non-detect. Acetone, isopropylbenzene and benzene remained at levels similar to previous data. Toluene, ethylbenzene and xylenes all showed an increase in concentration for this round as compared to the previous year's data, but historical analysis shows that detection for these compounds has been variable over time.

Constituents detected at RW-5S (Table 6) included isopropylbenzene (51 ug/L), benzene (29 ug/L), toluene (6.6 ug/L), ethylbenzene (180,000 ug/L) and xylenes (35 ug/L) - all other VOCs were non-detect. Concentrations for isopropylbenzene slightly increased as compared to previous rounds where this compound was detected at 15 ug/l in March 2002 and 6.9 ug/l in September 2001. Benzene was detected during this round for the first time at this location. Toluene remained at similar concentrations. Ethylbenzene was detected at approximately twice the level as previously observed over the past year. Xylenes showed a significant decrease from the 1st Quarter analysis where the compound was detected at 274 ug/L. Note that xylenes have typically shown variable concentrations over time at this area.

Treatment Plant Influent/Effluent

The waste stream influent and effluent concentrations for the 2nd Quarter of 2002 are provided on Table 9. Influent data (Pre-Carb) reflect a composite from all the groundwater extraction wells prior to pre-treatment. Primary Carbon data represents the effluent from the first carbon treatment unit prior to the second treatment unit. Effluent data (Post-Carb) represents pre-treated water prior to discharge to the City of Jamestown Publicly Owned Treatment Works (POTW). System influent data as related to extracted groundwater conditions for the quarter are discussed below.

Constituent ranges detected in the influent during the 2nd Quarter included: acetone (1,600 ug/L in May 2002), benzene (3.6 to 5.5 ug/L), isopropylbenzene (5.9 to 6.8 ug/L), 1,1-DCE (6.8 to 13 ug/L), cis-1,2-DCE (3,000 to 3,600 ug/L), trans-1,2-DCE (7.2 to 12 ug/L), ethylbenzene (380 to 610 ug/L), toluene (190 to 270 ug/L), TCE (100 to 260 ug/L), vinyl chloride (510 to 540 ug/L) and xylenes (3,190 to 4,900 ug/L).

Mr. Maurice Moore
NYSDEC
August 16, 2002
Page 4

Constituents detected in the system effluent during June 2002 included acetone (2,800 ug/L) and vinyl chloride (3.4 ug/L). The site pre-treatment system effluent exceeded the POTW discharge permit limit of 2,130 ug/L for this sampling event. After receipt of the June analytical results on July 22, 2002, the discharge was reported to the Jamestown Board of Public Utilities (BPU) by telephone on July 23, 2002 and in correspondence dated July 25, 2002. A new carbon treatment vessel was placed online in the secondary position of the 2-vessel treatment system on July 22, 2002. At this time, the primary carbon unit was taken offline, and the unit previously in the second position was placed in the primary position. On August 9, 2002, the carbon was changed out in the two used vessels, and the secondary unit placed online on July 22, 2002 was moved to the primary position.

Review of the recovery well analytical data indicates that the source of the acetone in the pre-treatment system is not from the site groundwater. A potential source of the acetone may be from the UST Area tank fluids that were pretreated through carbon in January 2002 after completion of the December 2001 tank cleaning activities. These fluids, which exhibited a white pigment after carbon treatment, were retained onsite until approval was obtained from the Jamestown BPU to process the fluids through the site pre-treatment system. Approximately 2,000-gallons of this fluid was processed through the system during May and June 2002. Note that acetone is a common laboratory contaminant, and the detection for this compound may not be associated with the site.

CLOSING

This letter report has been prepared to satisfy the reporting requirements stipulated in the Performance Monitoring Plan and to evaluate remediation effectiveness on a quarterly basis. If you have any questions or desire additional information, please do not hesitate to call me at (412) 788-2717 Extension 1269.

Sincerely yours,



Keith A. Dodrill
Project Manager

cc: Ben Baker
John Ross
Cameron O'Connor – NY State Dept. of Health
Andrew English – Chief, Bur. of Western Remedial Action
Glen R. Bailey – Dept. of Environmental Enforcement
Randall Peterson – Jamestown Board of Public Utilities
Carlo J. Montisano – Custom Production MFG., Inc

TABLES

Table 1
Recovery Well Analytical Results
2nd Quarter Sampling
July 5, 2002

Volatili Compounds (Method 8260A)	Site GW RAOs (ug/L)	RW-1S (ug/L)	RW-1D (ug/L)	RW-2S (ug/L)	RW-2D (ug/L)	RW-3S (ug/L)	RW-4S (ug/L)	RW-5S (ug/L)	Trip Blank (ug/L)
Chloromethane	-	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	5	<2	<100	<2	55	<2	<2	<2	<2
Methylene Chloride	-	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	-	14	<10	<10	<10	<10	25	<10	<10
1,1-Dichloroethene	-	<5	15	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	-	59	2,300	6.6	50	<5	<5	<5	<5
trans-1,2-Dichloroethene	5	<5	9.4	<5	7.8	<5	<5	<5	<5
1,1-Dichloroethane	-	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	-	<5	<5	<5	<5	<5	<5	<5	<5
2-Butanone	-	<10	<10	<10	28	<10	<10	<10	<10
4-Methyl-2-pentanone	-	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	5	360	8.1	200	<5	<5	<5	<5	<5
Isopropylbenzene	-	<5	<5	<5	<5	15	190	51	<5
Benzene	-	<1	6.6	<1	9.1	<1	21	29	<1
Tetrachloroethene	-	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	5	38	<5	<5	<5	140	7,000	6.6	<5
Ethylbenzene	5	77	<5	<5	<5	97	14,000	180	<5
Total Xylenes	5	480	15	6.5	12	95	101,000	35	<5

**Table 2
RW-1S
Quarterly Sample Results**

Volatile Compounds (Method 8260)	Site GW RAOs (ug/L)	Aug-95 (ug/L)**	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)	Apr-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Mar-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-06-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)
Vinyl Chloride	5	240	< 25	< 5	32	110	<5	11 J	20	6	3	1	<1	<5	<1	470 D	320 D	28	150	160	180	87	<2
Methylene Chloride	-	<17	< 35 ^a	11	< 5	<100	18	10 J	< 5	<1	1 ^b	2	2 ^b	<5	4 ^b	8	6.01 ^b	<5	<5	<5	<5	<5	<5
Acetone	-	10	< 58 ^a	< 10	< 10	<200	<25	<50	< 10	<5	<5	9	<5	<10	<5	15 ^b	<5	<5	<5	<5	50	<5	14
1,1-Dichloroethane	-																2.5	<5	<5	<5	5.4	5.4	<5
cis-1,2-Dichloroethane	-																	44	530	1,200	780	760	59
trans-1,2-Dichloroethane	5	1,700	160	< 5	< 5	<100	<5	<25	9	2	2	<1	<1	<5	<1	77	7.2	<5	<5	11	<5	12	<5
Chloroform	-		< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	<1	<1	<5	<5	<5	<5	<5	<5
2-Butanone	-		120	< 10	< 10	<200	<5	<50	< 10	<5	<5	<5	<5	<10	<5	9	<5	<5	<5	<5	<10	<5	<10
Trichloroethene	5	3,500	460	< 5	1,900 D	12,000	910	570	1,300	180 D	590	41	37	41	24	150	120	100	1,500	3,300	1,800	2,300	360
Isopropylbenzene	-			< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	14	6.1	<5	<5	<5	<5	<5	<5
Benzene	-		< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<5	<1	<1
Toluene	5		< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	4	1.34	<5	<5	<5	<5	<5	38
Ethylbenzene	5		< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	9	2.52	<5	<5	<5	<5	<5	77
Total Xylenes	5	4	< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	2	5	<5	<3	78	22	<5	<5	<5	<5	<5	480

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Aug-95 (ug/L)**	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)
Aroclor-1016	0.1		< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	< 0.10	<0.10
Aroclor-1221	0.1		< 0.20	N/A	< 0.3	< 0.3	<0.1	<0.2	< 0.2	< 0.2	<0.20	<0.20	< 0.10	<0.20
Aroclor-1232	0.1		< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	< 0.10	<0.10
Aroclor-1242	0.1		< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	< 0.10	<0.10
Aroclor-1248	0.1		< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	< 0.10	<0.10
Aroclor-1254	0.1	<1	< 0.10	N/A	< 0.3	< 0.3	<0.1	0.032 J	< 0.1	< 0.1	<0.10	<0.10	< 0.10	<0.10
Aroclor-1260	0.1		< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	< 0.10	<0.10

Notes:

R = Qualified as non-detect due to blank contamination

D,* = Analyzed with dilution. See laboratory reports for dilution factors.

** Sample results reported represent the highest values obtained from the 5.5 hr and 29 hr samples

E = Concentration exceeded calibration range of instrument.

J = Estimated Concentration

N/A = Not analyzed

**Table 3
RW-2S
Quarterly Sample Results**

Volatile Compounds (Method 8260A)	Site GW RAOs (ug/L)	Aug-95 (ug/L)**	Jul-97 (ug/L)'	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)'	Jun-98 (ug/L)'	Sept-98 (ug/L)'	Nov-98 (ug/L)'	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)	Apr-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Mar-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-06-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)
Vinyl Chloride	5	100/81	< 5	< 250	< 5	< 25	< 1	< 5	6	4	< 10	2	< 1	< 5	< 1	180	470 D	120	38	< 2	15	6.6	< 2
Methylene Chloride	-	< 10/< 10	< 13 ^B	880	< 5	30	< 1	2 J	< 5	< 1	36 ^B	< 1	5 ^B	< 5	4 ^B	48 ^B	4.23 ^B	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	-	< 10/< 10	< 10	< 500	< 10	< 50	< 5	< 10	< 10	< 5	< 50	< 5	< 5	< 10	< 5	65 ^B	< 5	< 5	< 5	< 5	< 10	< 5	< 10
1,1-Dichloroethene	-																32	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene																		620	400	500	110	99	6.6
trans-1,2-Dichloroethene	5	2,200/2,600	130	< 250	< 5	< 25	< 1	17	< 5	< 1	< 10	< 1	< 1	< 5	< 1	92	56	6.7	< 5	< 5	< 5	< 5	< 5
Chloroform	-		< 5	< 250	< 5	< 25	< 1	< 5	< 5	< 1	< 10	< 1	< 1	< 5	< 1	< 2	< 1	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone	-		< 10	< 500	< 10	< 50	< 5	< 10	< 10	< 5	< 50	< 5	< 5	< 10	< 5	21	< 5	< 5	< 5	< 5	< 10	< 5	< 10
1,1,2-Trichloroethane	-																1.05	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	5	7,700/10,000	410 D	3,700	750 D	380	120	870 E	1,100	1,900 D	2,700	1,500 D	17	46	490 D	43	6,400 D	1,500	2,200	2,900	22	7.7	200
isopropylbenzene	-			< 250	< 5	< 25	< 1	< 5	< 5	< 1	< 10	< 1	< 1	< 5	< 1	2	1.54	< 5	< 5	< 5	< 5	< 5	< 5
Benzene	-		< 5	< 250	< 5	< 25	< 1	< 5	< 5	< 1	< 10	< 1	< 1	< 5	< 1	< 2	< 1	< 1	< 1	< 1	< 5	< 1	< 1
Tetrachloroethene	-																2.93	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	5		< 5	< 250	< 5	< 25	< 1	< 5	< 5	< 1	< 10	< 1	< 1	< 5	< 1	< 2	2.01	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	5		< 5	< 250	< 5	< 25	< 1	< 5	< 5	< 1	< 10	3	< 1	< 5	< 1	2	1.34	< 5	< 5	< 5	< 5	< 5	< 5
Total Xylenes	5	< 10/10	< 5	< 250	< 5	< 25	< 1	< 5	< 5	< 1	< 10	20	2	< 5	< 3	17	13	< 5	< 5	< 5	< 5	< 5	6.5

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Aug-95 (ug/L)**	Jul-97 (ug/L)'	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)'	Jun-98 (ug/L)'	Sept-98 (ug/L)'	Nov-98 (ug/L)'	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)
Aroclor-1016	0.1		< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1221	0.1		< 0.20	N/A	< 0.3	< 0.3	< 0.1	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.10	< 0.20
Aroclor-1232	0.1		< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1242	0.1		< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1248	0.1		< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1254	0.1	< 1/< 1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1260	0.1		< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10

Notes:

B = Qualified as non-detect due to blank contamination

D, ' = Analyzed with dilution. See laboratory reports for dilution factors.

** Sample results reported represent the highest values obtained from the 5.5 hr and 29 hr samples.

E = Concentration exceeded calibration range of instrument.

J = Estimated Concentration

N/A = Not analyzed

**Table 4
RW-3S
Quarterly Sample Results**

Volatile Compounds (Method 8260A)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)	Apr-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Mar-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-06-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)
Vinyl Chloride	5	< 1000	< 500	11	<250	<10	<50	< 5	11	<2	<1	<2	<5	<2	2	<2	<2	<2	<2	<5	17	<2
Methylene Chloride	-	< 1000	< 500	< 5	360	<10	<50	< 5	<1	12 ^B	<1	2 ^B	<5	57 ^B	<1	12	<5	<5	<5	<5	<5	<5
Acetone	-	< 2000	< 1000	14	<500	<50	<100	< 10	<5	15	<5	<10	10	18 ^B	<5	<10	<5	<5	<5	<10	<5	<10
cis-1,2-Dichloroethene	-																<5	<5	<5	<5	6.3	<5
trans-1,2-Dichloroethene	5	< 1000	< 500	< 5	<250	<10	<50	< 5	<1	<2	<1	<2	<5	<2	<1	<2	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	-	<1000	<500	<5	<250	<50	<50	<5	2	<2	<1	<2	<5	<2	<1	<2	<5	<5	<5	<5	<5	<5
Chloroform	-	< 1000	< 500	< 5	<250	<10	<50	< 5	<1	<2	<1	<2	<5	<2	<1	<2	<5	<5	<5	<5	<5	<5
2-Butanone	-	< 2000	< 1000	< 10	<500	<50	<100	< 10	<5	<10	<5	<10	<10	<10	<5	<10	<5	<5	<5	<10	<5	<10
Trichloroethene	5	< 1000	< 500	< 5	<250	<10	<50	< 5	87 D	<2	<1	2	<10	<2	2	2.66	<5	<5	<5	<5	<5	<5
Isopropylbenzene	-		< 500	160	<250	71	110	24	83	3	34	39	13	47	50	24	17	38	27	56	<5	15
Benzene	-	< 1000	< 500	21	<250	15	16 J	9	17	<2	7	11	<5	12	18	11	7.7	35	21	52	1.3	<1
Toluene	5	7,700	4,800	3,700 D	1,700	430	180	< 250	83	3	15	8	6	6	2	<2	<5	<5	<5	<5	<5	140
Ethylbenzene	5	1,800	740	1,100 D	940	510	600	780	490 D	12	140	190	81	180	210 D	120	96	190	95	310	11	97
Total Xylenes	5	22,000	11,000	13,000 D	13,000	5,100	4,200 E	20,000	3,100 D	370	700 D	640	370 D	440	150	93	184	279	99	590	55	95

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)
Aroclor-1016	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1221	0.1	< 0.20	N/A	< 0.3	< 0.3	< 0.1	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.10	< 0.20
Aroclor-1232	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1242	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1248	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1254	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1260	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10

Notes:

- B = Qualified as non-detect due to blank contamination
- D,* = Analyzed with dilution. See laboratory reports for dilution factors
- E = Concentration exceeded calibration range of instrument
- J = Estimated Concentration
- N/A = Not analyzed

**Table 5
RW-4S
Quarterly Sample Results**

Volatile Compounds (Method 8260A)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-00 (ug/L)	Feb-00 (ug/L)	Apr-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Mar-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-06-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)
Vinyl Chloride	5	< 1000	< 100	< 25	<2500	<100	<500	< 5	<250	<500	<1	<500	<5	<250	<1	<500	<2	<2	<2	<5	<5	<2
Methylene Chloride	-	< 1200 ^B	220	< 25	6,500	<100	<500	< 5	<250	1,300 D	<1	5,600 ^B	<5	1100 ^B	<1	1,600	<5	<5	<5	<5	<5	<5
Acetone	-	< 3200 ^B	< 200	800	<5000	<500	<1000	58	<1300	<2,500	87	<2500	67	1600 ^B	44 ^B	<2500	27	18	15	33	29	25
cis-1,2-Dichloroethene	-																<5	<5	7.4	<5	9.3	<5
trans-1,2-Dichloroethene	5	< 1000	< 100	< 25	<2500	<100	<500	< 5	<250	<500	<1	<500	<5	<250	<1	<500	<5	<5	<5	<5	<5	<5
Chloroform	-	< 1000	< 100	< 25	<2500	<100	<500	< 5	<250	<500	<1	<500	<5	<250	<1	<500	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	-	<1000	<100	<25	<2500	<100	<500	<5	<250	<500	1	<500	<5	<250	<1	<500	<5	<5	<5	<5	<5	<5
2-Butanone	-	< 2000	< 200	82	<5000	<500	<1000	< 10	<1300	<2,500	13	<2500	<10	<1300	<5	<2500	<5	6.5	<5	<10	<5	<10
4-Methyl-2-pentanone	-																	14	14	14	20	<10
Trichloroethene	5	< 1000	< 100	< 25	<2500	<100	<500	< 5	<250	540	2	<500	<5	<250	2	770	<5	<5	<5	<5	<5	<5
Isopropylbenzene	-	< 1000	< 100	210	<2500	130	310 J	43	<250	<500	210	<500	130	<250	260 E	<500	150	140	180	120	170	190
Benzene	-	< 1000	< 100	26	<2500	<100	<500	6	<250	<500	25	<500	19	<250	27	<500	20	26	25	14	18	21
Toluene	5	6,100	< 100	3,100 D	<2500	1,600	8,400	110,000	2,500	390	4,700 D	3,800	2,900 D	6,500	7,200 D	5,400	4,700	4,500	3,600	3,100	2,500	7,000
Ethylbenzene	5	7,800	550	17,000 D	9,400	8,800	19,000	18,000	11,000	12,000	15,000 D	13,000	160	12,000	14,000 ^D	11,000	11,000	9,000	<5	7,900	<5	14,000
Total Xylenes	5	45,000	3,000	97,000 D	51,000	46,000	97,000 E	110,000	72,000	77,000	81,000 D	80,000	57,000 D	87,000	81,000 DE	74,000	72,000	65,000	63,000	64,000	88,000	101,000

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-00 (ug/L)	Feb-00 (ug/L)
Aroclor-1016	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10
Aroclor-1221	0.1	< 0.20	N/A	< 0.3	< 0.3	<0.1	<0.2	< 0.2	< 0.2	< 0.20	<0.10	<0.10	<0.20
Aroclor-1232	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10
Aroclor-1242	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10
Aroclor-1248	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10
Aroclor-1254	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10
Aroclor-1260	0.1	0.092 J	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10

Notes:

- B = Qualified as non-detect due to blank contamination
- D = Analyzed with dilution. See laboratory reports for dilution factors.
- E = Concentration exceeded calibration range of instrument.
- J = Estimated Concentration
- N/A = Not analyzed

**Table 6
RW-5S
Quarterly Sample Results**

Volatle Compounds (Method 8260A)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)	Apr-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Mar-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-06-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)
Vinyl Chloride	5	< 100	< 100	< 10	< 10	< 2	< 25	< 5	< 1	2	< 1	< 1	< 5	< 1	< 1	< 100	< 2	< 2	14	< 5	< 5	< 2
Methylene Chloride	-	< 130 ^B	580	< 10	< 10	8	< 25	34	1	1 ^B	< 1	2 ^B	< 5	4 ^B	9	340	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	-	< 200	< 200	< 20	< 20	< 10	33 J	11	< 5	< 5	< 5	< 5	< 10	< 5	16 ^B	< 500	< 5	< 5	< 5	14	35	< 10
cis-1,2-Dichloroethene	-																< 5	< 5	180	< 5	< 5	< 5
trans-1,2-Dichloroethene	5	< 100	< 100	< 10	< 10	< 2	< 25	< 5	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 100	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	-	< 100	< 100	< 10	< 10	< 2	< 25	< 5	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 100	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone	-	< 200	440	< 20	< 20	66	69	< 10	< 5	< 5	< 5	< 5	< 10	< 5	< 1	< 500	< 5	< 5	< 5	< 10	< 5	< 10
1,2-Dichloropropane	-	< 100	< 100	< 10	< 10	< 2	< 25	< 5	< 1	< 5	1	< 1	< 5	< 1	< 1	< 100	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	5	< 100	< 100	< 10	< 10	34	< 25	7	< 2 ^B	7	< 1	< 1	< 5	< 1	< 1	< 100	< 5	< 5	6.2	< 5	< 5	< 5
Isopropylbenzene	-	< 100	< 100	< 10	< 10	6	8 J	11	7	< 1	4	3	< 5	5	4	470	< 5	< 5	6.9	< 5	15	51
Benzene	-	< 100	< 100	< 10	< 10	< 2	< 25	< 5	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 100	< 1	< 1	< 1	< 5	< 5	29
Toluene	5	< 100	< 100	17	15	520	890	320	94	7	16	< 1	< 5	15	7	6,100	< 5	12	370	< 5	6.9	6.6
Ethylbenzene	5	620	420	35	< 10	57	82	120	74	3	53	22	< 5	41	29	16,000	35	20	91	< 5	83	180
Total Xylenes	5	2,000	2,300	410	86	520	640	570	330	26	660 D	63	12	82	68	73,000-D	186	231	445	11	274	35

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)
Aroclor-1016	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1221	0.1	< 0.20	N/A	< 0.3	< 0.3	< 0.1	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.10	< 0.20
Aroclor-1232	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1242	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1248	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1254	0.1	< 0.10	N/A	0.28 J	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1260	0.1	0.042 J	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10

Notes:

The November 2000 analytical data is considered suspect and non-representative of Recovery Well RW-5S.

B = Qualified as non-detect due to blank contamination

D, * = Analyzed with dilution. See laboratory reports for dilution factors.

J = Estimated Concentration

N/A = Not analyzed

**Table 7
RW-1D
Quarterly Sample Results**

Volatile Compounds (Method 8260A)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Apr-00 (ug/L)	Apr-30-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Apr-05-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-06-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)
Chloromethane	-										4	<2	<1	<5	<1	<1	<5	<5	<5	<5	<5	<5
Vinyl Chloride	5	23	29	93	200	200	130	130	140 D	210	120	830 D	450 D	530	25	910 D	<2	110	130	360	52	<100
Methylene Chloride	-	< 8 ^B	14	< 5	< 5	3	2 J	< 5	< 1	1 ^B	3	24 ^B	11 ^B	27 ^B	< 1	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	-	< 19 ^B	< 10	< 10	37	< 5	< 10	< 10	< 5	< 5	< 10	< 10	14 ^B	< 25	4 J ^B	< 5	< 5	< 5	< 5	12	< 5	< 10
1,1-Dichloroethene	-	< 5	< 5	< 5	< 5	< 1	< 5	< 5	3	4	2	54	85	53	11	41	10	12	12	< 5	25	15
cis-1,2-Dichloroethene																	1,500	1,700	1,400	180	3,000	2,300
trans-1,2-Dichloroethene	5	26	< 5	< 5	< 5	2	2 J	< 5	4	4	16	43	110	84	17	52	14	12	17	< 5	41	9.4
Chloroform	-	< 5	< 5	< 5	< 5	< 1	< 5	< 5	< 1	< 1	< 2	< 2	1	< 5	< 1	< 1	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone	-	< 10	< 10	< 10	< 10	< 5	< 10	< 10	< 5	< 5	< 10	< 10	< 5	< 25	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 10
Trichloroethene	5	< 5	< 5	< 5	< 5	< 1	3 J	6	< 10 ^B	19	< 2	38	8	25	16	150	< 5	14	73	< 5	62	8.1
Isopropylbenzene	-	< 5	< 5	< 5	< 5	< 1	< 5	< 5	< 1	< 1	< 2	< 2	< 1	< 5	< 1	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Benzene	-	< 5	< 5	< 5	< 5	< 1	< 5	< 5	2	2	< 2	6	23	17	4	14	3.7	6.0	3.6	< 5	9.7	6.6
Toluene	5	< 5	< 5	< 5	< 5	< 1	< 5	< 5	< 1	< 1	< 2	< 2	< 1	< 5	< 1	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	5	< 5	< 5	< 5	< 5	< 1	< 5	< 5	< 1	< 1	< 2	< 2	< 1	< 5	< 1	< 1	< 5	< 5	< 5	< 5	< 5	< 5
Total Xylenes	5	< 5	< 5	< 5	< 5	< 1	< 5	< 5	< 1	< 1	< 2	< 2	< 3	< 15	< 3	< 1	< 5	< 5	< 5	< 5	< 5	15

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)
Aroclor-1016	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10
Aroclor-1221	0.1	< 0.20	N/A	< 0.3	< 0.3	< 0.1	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.10	< 0.20
Aroclor-1232	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1242	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1248	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1254	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1260	0.1	< 0.10	N/A	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10

Notes:

- B = Qualified as non-detect due to blank contamination
- D = Analyzed with dilution. See laboratory reports for dilution factors.
- J = Estimated Concentration
- N/A = Not analyzed

**Table 8
RW-2D
Quarterly Sample Results**

Volatile Compounds (Method 8260A)	Site GW RAOs (ug/L)	Aug-95 (ug/L)**	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)	Apr-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Mar-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-06-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)
Vinyl Chloride	5	32	32	< 50	71	<250	83/<25	110 J	150	190	280	190 D	<20	210	150	160 D	120 D	530	610	1,300	1,100	1,700	65
Methylene Chloride	-	<10	< 12 ^B	340	< 5	<250	<25/<25	80 J	< 5	<1	1 ^B	<1	260 ^B	<5	410 ^B	<1	3 06 ^B	<5	<5	<5	<5	<5	<5
Acetone	-	<10	< 90 ^B	< 100	< 10	<500	<130/<130	<250	< 10	<5	<5	<5	<100	<10	120 ^B	<5	<5	<5	<5	<5	<10	<10	<10
1,1-Dichloroethene	-		<5	<50	<5	<250	<25	>120	<5	5	6	<1	65	6	<10	12	25	17	16	25	25	33	<5
cis-1,2-Dichloroethene																		5,200	4,200	7,900	7,800	12,000	50
trans-1,2-Dichloroethene	5	200	320 D	< 50	< 5	<250	<25/<25	<120	< 5	5	5	5	94	7	<10	11	19	27	27	32	41	29	7.8
Chloroform	-		< 5	< 50	< 5	<250	<25/<25	<190	< 5	<1	<1	<1	<20	<5	<10	<1	<1	<5	<5	<5	<5	<5	<5
2-Butanone	-		130	270	< 10	<500	<25/<25	<250	< 10	<5	<5	<5	<100	<10	<50	16	<5	<5	<5	<5	<10	<5	28
Trichloroethene	5	5,600	2,200 D	1,900 D	4,500 D	4,900	2,200/2,500	3,200	4,700	4,500 D	4,000	2,800 D	18,000 D	1,900 D	3,100	3,000 D	4,400 D	1,100	270	330	310	150	<5
Isopropylbenzene	-			< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	<1	<20	<5	<10	<1	<1	<5	<5	<5	<5	<5	<5
Benzene	-		< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	2	<20	<5	<10	3	4.7	6.5	7.2	7.5	9.2	9.9	9.1
Tetrachloroethene	-		<5	<50	<5	<250	<25	<120	<5	1	1	1	<20	<5	<10	<1	1.04	<5	<5	<5	<5	<5	<5
Toluene	5		< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	<1	<20	<5	<10	<1	<1	<5	<5	<5	<5	<5	<5
Ethylbenzene	5		< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	2	<20	7	<10	<1	<1	<5	<5	<5	<5	<5	<5
Total Xylenes	5	<10	< 5	< 50	< 5	<250	<25/<25	<120	< 5	<2 ^B	2	13	<20	38	<30	<3	1.49	<5	<5	<5	8.9	<5	12

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Aug-95 (ug/L)**	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)
Aroclor-1016	0.1		< 0.10	N/A	< 0.3	< 0.3	<0.1/<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1221	0.1		< 0.20	N/A	< 0.3	< 0.3	<0.1/<0.1	<0.2	< 0.2	< 0.2	<0.20	<0.20	<0.10	<0.20
Aroclor-1232	0.1		< 0.10	N/A	< 0.3	< 0.3	<0.1/<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1242	0.1		< 0.10	N/A	< 0.3	< 0.3	<0.1/<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1248	0.1		< 0.10	N/A	< 0.3	< 0.3	<0.1/<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1254	0.1	<1	< 0.10	N/A	< 0.3	< 0.3	<0.1/<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1260	0.1		< 0.10	N/A	< 0.3	< 0.3	<0.1/<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10

Notes:

B = Qualified as non-detect due to blank contamination

D, * = Analyzed with dilution. See laboratory reports for dilution factors.

** Sample results reported represent the highest values obtained from the 5.5 hr and 29 hr samples.

J = Estimated Concentration

N/A = Not analyzed

Table 9
POTW Monthly Monitoring Summary
2002 System Influent/Effluent Data
Volatile Organic Compounds

Pre-Carbon Analytical Results	Jan-27-02 (ug/L)	Mar-1-02 (ug/L)	Mar-28-02 (ug/L)	Apr-25-02 (ug/L)	May-30-02 (ug/L)	June-28-02 (ug/L)	Jul-02 (ug/L)	Aug-02 (ug/L)	Sep-02 (ug/L)	Oct-02 (ug/L)	Nov-02 (ug/L)	Dec-02 (ug/L)
Acetone	<5.0	62	14	<5.0	1,600	<10.0						
Benzene	7.2	6.5	3.8	3.6	5.5	4.3						
2-Butanone	<5.0	<5.0	<5.0	<5.0	45	<10.0						
Chloroform	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
Chloromethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
Isopropylbenzene (Cumene)	6.5	9.6	7	5.9	6.1	6.8						
1,1-Dichloroethane	18	11	9.2	10	13	6.8						
cis-1,2-Dichloroethane	5,700	4,700	3,500	3,000	3,600	3,200						
trans-1,2-Dichloroethane	34	41	9.3	7.2	12	7.3						
Ethylbenzene	400	460	510	380	380	610						
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
Toluene	170	250	240	190	200	270						
Trichloroethane	320	240	230	<250	260	100						
Vinyl Chloride	720	640	520	520	540	510						
Total Xylenes	3,740	3,210	4,200	3,270	3,190	4,900						
Pre-Carb TOTAL VOCs	11,115.7	9,630.1	9,243.3	7,386.7	9,851.6	9,615.2						

Primary Carbon Analytical Results	Jan-27-02 (ug/L)	Mar-1-02 (ug/L)	Mar-28-02 (ug/L)	Apr-02 (ug/L)	May-02 (ug/L)	June-28-02 (ug/L)	Jul-02 (ug/L)	Aug-02 (ug/L)	Sep-02 (ug/L)	Oct-02 (ug/L)	Nov-02 (ug/L)	Dec-02 (ug/L)
Acetone	<0.5	3,700	270	<5.0	1,200	2,300						
Benzene	<1	<1.0	<1.0	<1.0	<1.0	<1.0						
2-Butanone	<0.5	13	29	<5.0	<5.0	37						
Chloroform	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0						
Chloromethane	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0						
Isopropylbenzene (Cumene)	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0						
1,1-Dichloroethane	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0						
cis-1,2-Dichloroethane	9	27	110	7.3	19	370						
trans-1,2-Dichloroethane	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0						
Ethylbenzene	<0.5	<5.0	<5.0	<5.0	<5.0	6.3						
Methylene Chloride	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0						
Toluene	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0						
Trichloroethane	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0						
Vinyl Chloride	700	1,300	1,100	14	78	670						
Total Xylenes	<0.5	<5.0	7.9	<5.0	<5.0	52						
Primary-Carb TOTAL VOCs	709	5,040	1,516.9	21.3	1,297	3,435.3						

Post-Carbon Analytical Results	Jan-27-02 (ug/L)	Mar-1-02 (ug/L)	Mar-28-02 (ug/L)	Apr-02 (ug/L)	May-02 (ug/L)	June-28-02 (ug/L)	Jul-02 (ug/L)	Aug-02 (ug/L)	Sep-02 (ug/L)	Oct-02 (ug/L)	Nov-02 (ug/L)	Dec-02 (ug/L)
Acetone	<5.0	1,500	1,900	11	<5.0	2,800						
Benzene	<1	<1.0	<5.0	<1.0	<1.0	<1.0						
2-Butanone	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0						
Chloroform	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
Chloromethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
Isopropylbenzene (Cumene)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
cis-1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
trans-1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
Vinyl Chloride	<2	8.2	240	3.4	2.4	3.4						
Total Xylenes	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0						
Post-Carb TOTAL VOCs	ND	1,508.2	2,140	14.4	2.4	2,803.4						

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

Notes:

Primary and Secondary Carbon Units changed out on April 13, 2002

Pre-Carbon sample results represent system influent.

Primary Carbon sample results represent effluent from the first carbon vessel in the two (2) carbon vessel system.

Post-Carbon sample results represent system effluent from the secondary carbon vessel to the POTW.

B = Qualified as non-detect due to blank contamination

D = Analyzed with dilution, see laboratory reports for dilution factor

J = Estimated Concentration

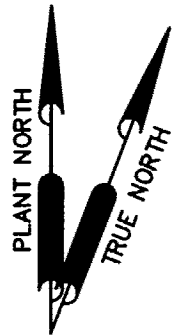
ND = Non detect

NS = Not Sampled

NA = Not Analyzed

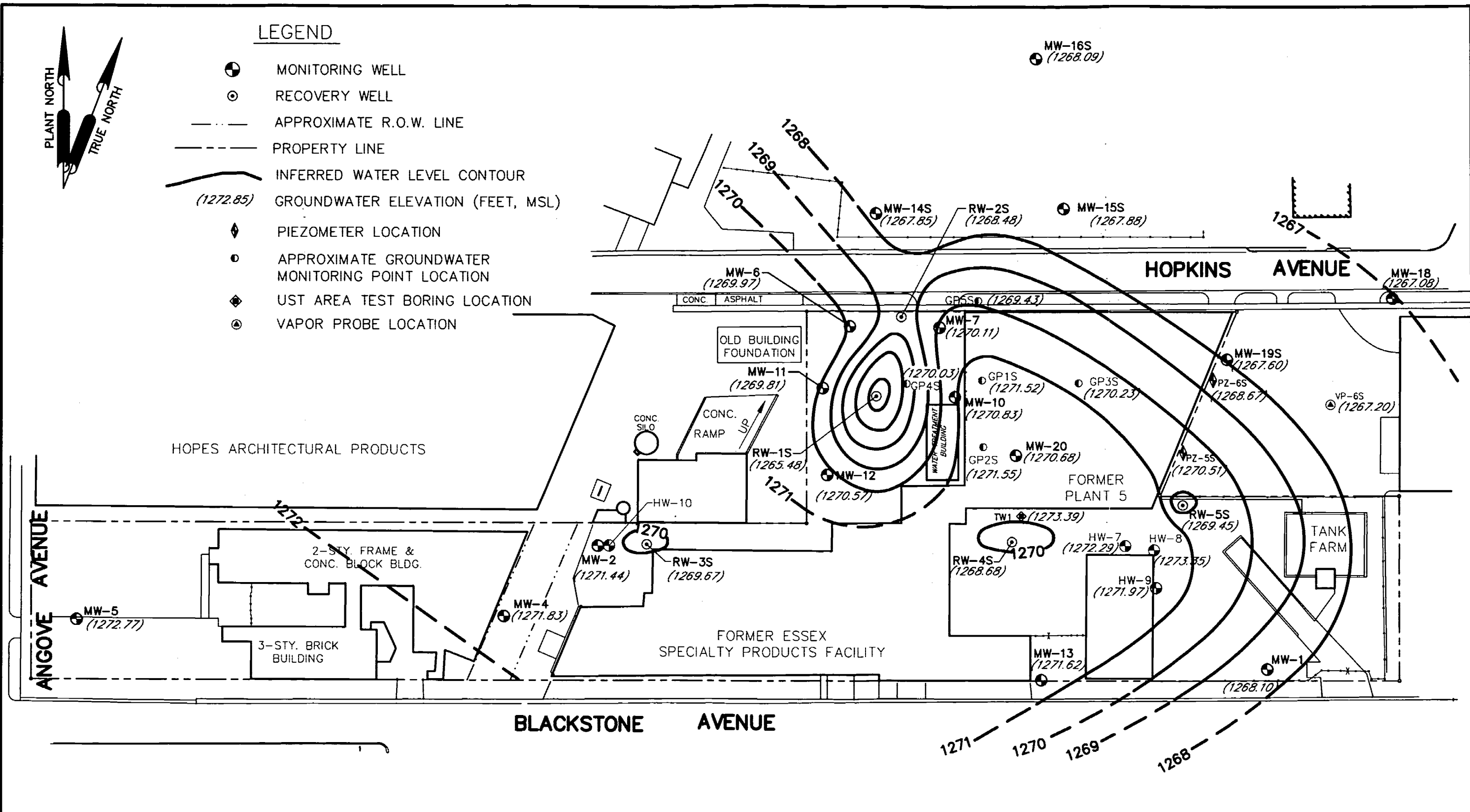
FIGURES

FIGURES



LEGEND

- MONITORING WELL
- RECOVERY WELL
- - - APPROXIMATE R.O.W. LINE
- - - PROPERTY LINE
- ~ INFERRED WATER LEVEL CONTOUR
- (1272.85) GROUNDWATER ELEVATION (FEET, MSL)
- ◆ PIEZOMETER LOCATION
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- ◆ UST AREA TEST BORING LOCATION
- ⊙ VAPOR PROBE LOCATION



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VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (NATIONAL GEODETIC VERTICAL DATUM, 1929).

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**WATER TABLE CONTOUR MAP
MAY 22, 2002**

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

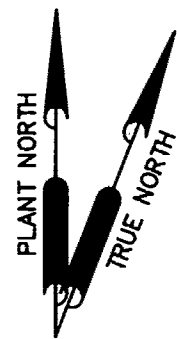
JOB NUMBER: 801419.2010

SCALE: AS SHOWN

FIGURE NUMBER

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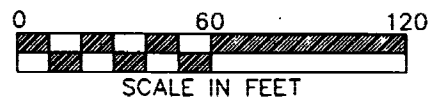
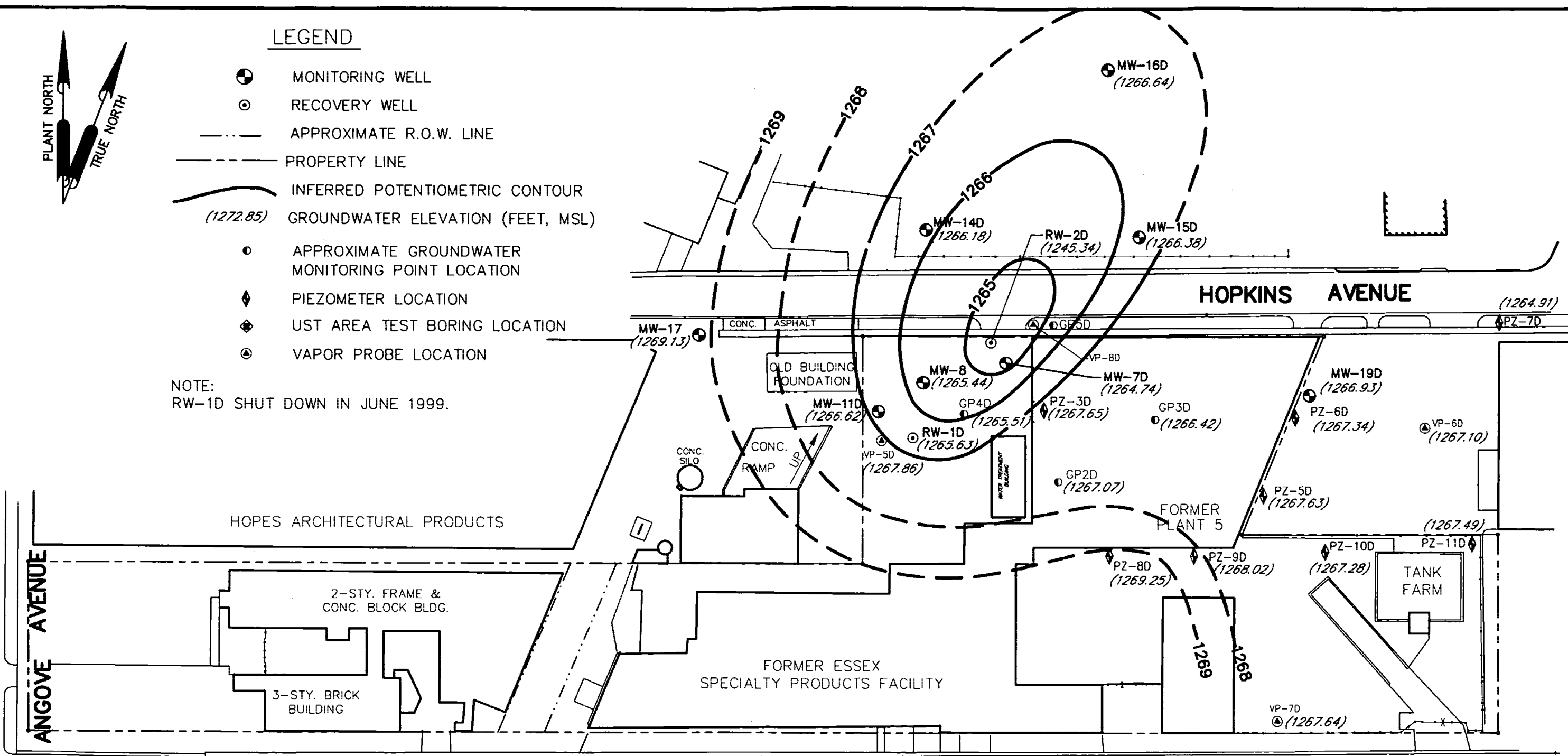
REV 0



LEGEND

- MONITORING WELL
- RECOVERY WELL
- - - - - APPROXIMATE R.O.W. LINE
- — — — — PROPERTY LINE
- — — — — INFERRED POTENTIOMETRIC CONTOUR
- (1272.85) GROUNDWATER ELEVATION (FEET, MSL)
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- ◆ PIEZOMETER LOCATION
- ◆ UST AREA TEST BORING LOCATION
- ⊙ VAPOR PROBE LOCATION

NOTE:
RW-1D SHUT DOWN IN JUNE 1999.



POTENTIOMETRIC CONTOUR MAP
LOWER FINE SAND WATER BEARING ZONE
MAY 22, 2002

ESSEX/HOPE SITE		JAMESTOWN, NY	
CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 801419.2010	
SCALE: AS SHOWN	FIGURE NUMBER: 2	REV 0	

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VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (NATIONAL GEODETIC VERTICAL DATUM, 1929).

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APPENDIX A
WATER LEVEL MEASUREMENT DATA

Groundwater Extraction System Monitoring Data
January through March 2002 Water Levels

Essex/Hope Site Remedial Action
Jamestown, New York
Radian Project No. 801419

Well No.	Northing	Easting	Reference Elevation (ft msl)	Screened Zone	January 16, 2002		February 20, 2002		March 28, 2002		
					Depth to Water	Groundwater Elevation (ft msl)	Depth to Water	Groundwater Elevation (ft msl)	Depth to Water (ft toc)	Groundwater Elevation (ft msl)	
MW-1	9758 7161	10383 6499	1280 48	Shallow WBZ	13 59	1266 92	12 80	1267 68	12 11	1268 37	
MW-2	9837 1531	9959 8857	1279 87	Shallow WBZ	Dry	NA	Dry	NA	8 07	1271 80	
MW-4	9792 3277	9900 7831	1281 07	Shallow WBZ	9 56	1271 46	9 41	1271 81	9 02	1272	
MW-5	9789 6222	9631 761	1280 82	Shallow WBZ	8 21	1272 61	8 05	1272 77	7 91	1272 91	
MW-6*	9977 1197	10118 8762	1277 98	Shallow WBZ	8 43	1269 55	8 08	1269 9	7 93	1270 05	
MW-7*	9976 6467	10175 6767	1277 73	Shallow WBZ	7 81	1269 92	7 84	1269 88	7 81	1270 12	
MW-10	9932 4702	10185 7078	1277 94	Shallow WBZ	7 32	1270 62	7 67	1270 27	5 71	1272 23	
MW-11*	9837 9912	10101 7016	1277 75	Shallow WBZ	8 82	1268 93	8 60	1269 15	7 46	1270 29	
MW-12	9883 0874	10104 8278	1278 18	Shallow WBZ	9 67	1268 51	8 11	1270 07	6 88	1271 2	
MW-13	9752 0619	10240 2934	1278 12	Shallow WBZ	11 74	1266 36	8 40	1269 72	5 93	1272 19	
MW-14S	10048 7753	10135 5198	1280 25	Shallow WBZ	13 43	1266 82	12 66	1267 59	12 27	1267 98	
MW-15S	10051 8272	10254 4852	1279 55	Shallow WBZ	13 36	1266 19	12 54	1267 01	11 72	1267 83	
MW-16S	10148 7788	10238 8582	1279 32	Shallow WBZ	12 73	1266 59	12 08	1267 24	11 30	1268 02	
MW-18	9994	10485	1275 59	Shallow WBZ	10 09	1265 50	9 43	1266 16	8 71	1266 88	
MW-19S	9956 1454	10358 207	1276 82	Shallow WBZ	10 16	1266 66	9 67	1266 95	8 99	1267 83	
MW-20	9895 0082	10224 2128	1278 64	Shallow WBZ	8 61	1272 03	7 08	1271 56	5 84	1272 7	
HW-1	9874 8053	10078 0259	1281 91	Shallow WBZ	NA	NA	NA	NA	NA	NA	
HW-2	9977 6477	10078 7882	1281 13	Shallow WBZ	NA	NA	NA	NA	NA	NA	
HW-3	9886 163	9657 6007	1283 24	Shallow WBZ	NA	NA	NA	NA	NA	NA	
HW-7	9837 3164	10293 6428	1277 55	Shallow WBZ	5 61	1271 94	5 53	1272 02	NA	NA	
HW-8	9834 664	10312 0885	1277 61	Shallow WBZ	6 57	1271 24	5 73	1272 08	NA	NA	
HW-9	9810 5264	10313 3873	1280 78	Shallow WBZ	9 28	1271 52	9 02	1271 78	NA	NA	
HW-10	9837 2978	9964 7406	1279 55	Shallow WBZ	8 15	1271 40	8 47	1271 08	7 96	1271 58	
SP-10	9815 1846	9877 9809	1279 03	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-11	9839 7566	9877 8072	1279 23	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-12	9833 1836	9958 7423	1279 68	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-13	9819 5009	9958 5764	1279 87	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-14	9807 2232	9967 0477	1279 39	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-15	9840 6722	10209 4525	1278 65	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-16	9840 3119	10250 4484	1277 84	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-17	9845 107	10287 6581	1277 56	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-18	9855 8421	10323 255	1277 41	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SDO-1	N/A	N/A	N/A	Shallow WBZ	NA	NA	NA	NA	NA	NA	
RW-1S	9832 8951	10135 8706	1276 06	Shallow WBZ	11 21	1264 85	10 25	1265 81	10 90	1265 16	
RW-2S*	9883 3801	10151 8403	1276 59	Shallow WBZ	12 38	1264 21	9 10	1267 49	7 19	1269 4	
RW-3S	9838 0584	9890 4502	1278 26	Shallow WBZ	5 58	1269 73	9 28	1269	8 26	1270 03	
RW-4S	9839 8053	10221 8768	1277 34	Shallow WBZ	8 39	1268 95	8 37	1268 97	7 69	1269 45	
RW-5S	9883 2271	10330 2425	1277 43	Shallow WBZ	7 83	1269 60	7 91	1269 52	7 40	1270 03	
RW-7D*	9873 2583	10174 8524	1277 8	Lower Fine Sand WBZ	13 91	1263 89	12 00	1265 8	11 46	1266 34	
MW-8	9959 8089	10127 8898	1277 97	Lower Fine Sand WBZ	13 48	1264 49	11 76	1266 18	11 28	1266 71	
MW-11D	9642 3782	10101 1482	1277 85	Lower Fine Sand WBZ	13 04	1264 81	11 58	1266 29	11 10	1268 75	
MW-14D	10049 5051	10129 1887	1280 01	Lower Fine Sand WBZ	14 78	1265 23	13 42	1266 59	13 16	1266 85	
MW-15D	10045 5811	10255 205	1279 48	Lower Fine Sand WBZ	14 26	1265 70	13 13	1266 35	12 88	1266 58	
MW-16D	10143 9487	10238 8005	1279 05	Lower Fine Sand WBZ	13 58	1265 47	12 58	1266 46	12 40	1266 65	
MW-17	9887 8315	9995 5207	1278 7	Lower Fine Sand WBZ	NA	NA	9 75	1269 95	9 63	1269 07	
MW-19D	9951 589	10355 6748	1276 21	Lower Fine Sand WBZ	10 54	1265 67	8 88	1268 32	5 19	1271 02	
RW-1D	9828 5987	10121 3868	1276 64	Lower Fine Sand WBZ	11 31	1265 33	10 28	1266 35	8 81	1266 83	
RW-2D	9883 0819	10167 3168	1276 48	Lower Fine Sand WBZ	36 42	1240 04	29 40	1247 06	28 53	1249 83	
MW-7DD*	9970 8547	10178 2698	1277 74	Glacial Till	2 19	1275 55	2 42	1275 32	2 37	1275 37	
GP-1S	9954 39*	10203 02*	1278 98	Shallow WBZ	9 02	1269 96	8 93	1270 05	11 18	1267 82	
GP-2S	9914 89*	10201 04*	1278 63	Shallow WBZ	7 33	1271 30	7 53	1271 1	9 21	1272 42	
GP-2D	9914 91*	10207 84*	1278 7	Lower Fine Sand WBZ	12 81	1265 89	11 48	1267 22	11 24	1267 46	
GP-3S	9941 13*	10264 03*	1278 87	Shallow WBZ	8 61	1270 26	9 18	1269 71	7 70	1271 17	
GP-3D	9937 38*	10264 53*	1278 77	Lower Fine Sand WBZ	13 28	1265 49	12 08	1266 68	11 80	1266 97	
GP-4S	9940 86*	10154 67*	1278 08	Shallow WBZ	8 26	1269 80	8 03	1270 03	NA	NA	
GP-4D	9940 85*	10151 57*	1278 08	Lower Fine Sand WBZ	4 06	1264 02	11 91	1266 17	NA	NA	
GP-5S	9993 54*	10200 34*	1277 44	Shallow WBZ	Frozen		8 12	1269 32	7 88	1269 56	
GP-5D	9993 55*	10200 21*	1277 37	Lower Fine Sand WBZ	Frozen		Water at Top		NA	NA	
PZ-1S			1277 97	Shallow WBZ	8 11	1269 86	8 13	1269 84	NA	NA	
PZ-1D			1277 75	Lower Fine Sand WBZ	11 88	1266 07	10 92	1268 83	NA	NA	
PZ-2D			1277 88	Lower Fine Sand WBZ	10 94	1266 92	10 44	1267 42	NA	NA	
PZ-3D			1279 02	Lower Fine Sand WBZ	12 34	1266 63	11 47	1267 55	11 06	1267 96	
PZ-4D			1278 94	Lower Fine Sand WBZ	12 18	1266 76	11 42	1267 52	NA	NA	
PZ-5S			1276 56	Shallow WBZ	6 81	1269 75	6 51	1270 05	9 75	1266 81	
PZ-5D			1276 52	Lower Fine Sand WBZ	10 31	1266 21	9 28	1267 24	9 18	1267 36	
PZ-6S			1276 77	Shallow WBZ	7 08	1269 89	8 71	1268 06	9 71	1267 06	
PZ-6D			1276 57	Lower Fine Sand WBZ	10 58	1266 01	9 33	1267 24	9 43	1267 14	
PZ-7D			1275 83	Lower Fine Sand WBZ	10 77	1265 06	10 08	1265 75	9 59	1266 24	
PZ-8D			1276 83	Lower Fine Sand WBZ	12 03	1266 80	10 91	1267 72	10 82	1267 81	
PZ-9D			1278 04	Lower Fine Sand WBZ	11 28	1266 78	10 18	1267 88	10 05	1267 99	
PZ-10D			1277 58	Lower Fine Sand WBZ	11 35	1266 23	10 78	1266 82	10 03	1267 55	
PZ-11D			1276 7	Lower Fine Sand WBZ	11 09	1265 61	9 88	1266 82	9 81	1268 79	
TW-01			1279 1	Shallow WBZ	8 29	1272 81	5 71	1273 39	NA	NA	
VP-5D			1278 2	Lower Fine Sand WBZ	12 06	1268 14	10 56	1267 64	10 29	1267 91	
VP-6S			1276 82	Upper Gravel of LFSWBZ	10 41	1286 21	10 06	1269 56	7 51	1269 11	
VP-6D			1276 71	Lower Fine Sand WBZ	10 89	1285 82	10 23	1268 48	9 59	1267 12	
VP-7D			1278 87	Lower Fine Sand WBZ			11 42	1267 45	11 30	1267 57	
VP-8D			1277 37	Lower Fine Sand WBZ			10 10	1267 27	8 87	1267 5	
Comments					1548 Days of System Operation		1584 Days of System Operation		1620 Days of System Operation		
WBZ - Water Bearing Zone											
* - Estimated Coordinate											
MW-5 TOC elev altered from 1280 91 ft msl to 1280 82 ft msl on May 5 2000											
* Wells resurveyed on 10/11/00 due to uplift of concrete from injection work.											

Groundwater Extraction System Monitoring Data
May and June 2002 Water Levels

Essex/Hope Site Remedial Action
Jamestown, New York
Radian Project No. 801419

Well No.	Northing	Easting	Reference Elevation (ft msl)	Screened Zone	May 7, 2002		May 22, 2002		June 25, 2002		
					Depth to Water	Groundwater Elevation (ft msl)	Depth to Water	Groundwater Elevation (ft msl)	Depth to Water	Groundwater Elevation (ft msl)	
MW-1	0753 7181	10383 6499	1280 48	Shallow WBZ	12 88	1267 60	12 38	1268 10	13 67	1266 81	
MW-2	9837 1531	9959 5857	1279 87	Shallow WBZ	Dry		Dry	NA	Dry	NA	
MW-4	9792 3277	9900 7631	1281 02	Shallow WBZ	9 40	1271 62	9 19	1271 83	10 66	1270 36	
MW-5	9789 8222	9631 761	1280 82	Shallow WBZ	8 08	1272 74	8 05	1272 77	8 83	1271 99	
MW-6*	9877 1197	10118 8782	1277 98	Shallow WBZ	8 50	1269 48	8 01	1269 87	8 51	1269 47	
MW-7*	9876 8487	10175 8797	1277 73	Shallow WBZ	8 29	1269 44	7 62	1270 11	7 88	1269 75	
MW-10	9932 4702	10185 7078	1277 94	Shallow WBZ	7 90	1270 04	7 11	1270 83	8 19	1269 75	
MW-11*	9937 9912	10101 7018	1277 75	Shallow WBZ	8 46	1269 29	7 94	1269 81	10 81	1268 94	
MW-12	9883 0874	10104 9278	1278 18	Shallow WBZ	8 48	1269 70	7 61	1270 57	9 52	1268 68	
MW-13	9752 0819	10240 2934	1278 12	Shallow WBZ	7 89	1270 43	6 50	1271 82	8 22	1269 9	
MW-14S	10048 7753	10135 5198	1280 25	Shallow WBZ	12 75	1267 50	12 40	1267 85	13 52	1268 73	
MW-15S	10051 8272	10254 4862	1279 55	Shallow WBZ	12 84	1268 71	11 67	1267 88	12 97	1268 58	
MW-18S	10146 7788	10238 8582	1279 32	Shallow WBZ	12 35	1266 97	11 23	1266 09	12 4	1268 92	
MW-18	9994	10485	1275 59	Shallow WBZ	9 64	1265 95	8 51	1267 08	10 17	1265 42	
MW-18S	9956 1454	10358 207	1276 82	Shallow WBZ	10 02	1266 80	9 22	1267 60	10 70	1266 03	
MW-20	9895 0082	10224 2128	1278 64	Shallow WBZ	7 26	1271 38	7 96	1270 68	8 62	1270 02	
HW-1	9874 8053	10079 0259	1281 91	Shallow WBZ	NA	NA	NA	NA	NA	NA	
HW-2	9977 6477	10079 7882	1281 13	Shallow WBZ	NA	NA	NA	NA	NA	NA	
HW-3	9666 163	9957 6007	1283 24	Shallow WBZ	NA	NA	NA	NA	NA	NA	
HW-7	9837 3164	10263 8428	1277 55	Shallow WBZ	5 68	1271 87	5 26	1272 29	6 09	1271 48	
HW-8	9834 664	10312 0885	1277 81	Shallow WBZ	5 96	1271 85	4 46	1273 35	5 46	1272 35	
HW-9	9810 5264	10313 3873	1280 78	Shallow WBZ	9 15	1271 63	8 81	1271 97	9 31	1271 47	
HW-10	9837 2978	9968 7408	1279 45	Shallow WBZ	8 44	1271 11	8 11	1271 44	9 24	1270 31	
SP-10	9815 1848	9977 9906	1279 03	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-11	9839 7566	9977 9072	1279 23	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-12	9833 1836	9958 7423	1279 68	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-13	9819 5009	9958 5764	1279 87	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-14	9807 2232	9967 0477	1279 39	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-15	9840 6722	10209 4525	1278 65	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-16	9840 3119	10250 4484	1277 84	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-17	9845 107	10287 9591	1277 56	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SP-18	9865 8421	10323 285	1277 4	Shallow WBZ	NA	NA	NA	NA	NA	NA	
SDO-1	N/A	N/A	N/A	Shallow WBZ	NA	NA	NA	NA	NA	NA	
RW-1S	9932 8951	10135 8706	1278 06	Shallow WBZ	11 00	1265 08	10 58	1265 48	10 64	1265 42	
RW-2S*	9853 3801	10151 6403	1278 59	Shallow WBZ	10 60	1265 99	8 11	1268 46	8 18	1268 41	
RW-3S	9838 0594	9990 4502	1278 29	Shallow WBZ	8 72	1269 57	8 62	1269 87	8 7	1269 59	
RW-4S	9839 8052	10221 6768	1277 34	Shallow WBZ	8 06	1269 28	8 66	1268 68	8 83	1268 51	
RW-5S	9853 2271	10330 2425	1277 43	Shallow WBZ	8 15	1269 28	7 98	1269 45	7 96	1269 47	
MW-70*	9973 2593	10174 8524	1277 8	Lower Fine Sand WBZ	11 20	1266 50	13 06	1264 74	14 29	1263 51	
MW-8	9959 8089	10127 6898	1277 97	Lower Fine Sand WBZ	11 11	1266 86	12 53	1265 44	13 17	1264 8	
MW-11D	9942 3792	10101 1482	1277 85	Lower Fine Sand WBZ	10 78	1267 07	11 23	1266 62	12 1	1265 75	
MW-14D	10049 5051	10129 1897	1280 01	Lower Fine Sand WBZ	13 04	1266 97	13 83	1266 18	15 08	1264 93	
MW-15D	10045 5611	10255 205	1279 46	Lower Fine Sand WBZ	12 98	1266 48	13 08	1266 38	14 87	1264 79	
MW-16D	10143 9497	10236 6005	1278 05	Lower Fine Sand WBZ	12 80	1266 45	12 41	1266 64	13 98	1265 07	
MW-17	9987 6315	9995 5207	1278 7	Lower Fine Sand WBZ	9 47	1269 23	9 57	1269 13	10 29	1268 41	
MW-19D	9851 568	10355 9748	1278 21	Lower Fine Sand WBZ	9 88	1268 33	9 28	1268 93	10 11	1268 1	
RW-1D	9826 5997	10121 3968	1275 64	Lower Fine Sand WBZ	9 64	1267 20	11 01	1265 83	11 13	1265 51	
RW-2D	9883 0818	10187 3168	1278 40	Lower Fine Sand WBZ	22 27	1254 19	31 12	1245 34	31 22	1245 24	
MW-70D*	9970 8547	10176 2898	1277 74	Glacial Till	2 32	1275 42	1 41	1276 32	2 88	1275 08	
GP-1S	9954 39*	10203 02*	1278 98	Shallow WBZ	9 15	1269 83	7 46	1271 52	8 08	1270 9	
GP-2S	9914 89*	10201 04*	1278 63	Shallow WBZ	7 50	1271 04	7 08	1271 55	7 57	1271 06	
GP-2D	9814 91*	10207 84*	1278 7	Lower Fine Sand WBZ	11 30	1267 40	11 63	1267 07	14 22	1264 48	
GP-3S	9941 13*	10284 03*	1278 87	Shallow WBZ	9 23	1269 64	8 64	1270 23	9 39	1269 48	
GP-3D	9937 38*	10284 53*	1278 77	Lower Fine Sand WBZ	11 84	1266 93	12 35	1266 42	14 09	1264 68	
GP-4S	9940 86*	10154 87*	1278 06	Shallow WBZ	8 50	1269 56	8 01	1270 05	8 71	1269 35	
GP-4D	9940 85*	10151 57*	1278 08	Lower Fine Sand WBZ	11 20	1266 88	12 57	1265 51	14 88	1263 2	
GP-5S	9993 54*	10200 34*	1277 44	Shallow WBZ	8 51	1268 93	8 01	1269 43	8 91	1268 53	
GP-5D	9993 55*	10280 21*	1277 37	Lower Fine Sand WBZ	NA	NA	NA	NA	2 28	1275 11	
PZ-1S				Shallow WBZ		8 18	1269 81	8 17	1269 80	8 88	1269 11
PZ-1D				Lower Fine Sand WBZ	10 62	1267 13	10 88	1266 87	11 39	1266 36	
PZ-2D				Lower Fine Sand WBZ	10 11	1267 75	10 33	1267 53	10 97	1266 89	
PZ-3D				Lower Fine Sand WBZ	11 28	1267 74	11 37	1267 65	12 44	1266 58	
PZ-4D				Lower Fine Sand WBZ	11 34	1267 60	11 31	1267 63	12 38	1266 58	
PZ-5S				Shallow WBZ	8 58	1269 88	8 05	1270 51	9 18	1267 4	
PZ-5D				Lower Fine Sand WBZ	9 28	1267 24	8 89	1267 83	11 08	1265 48	
PZ-6S				Shallow WBZ	8 73	1268 04	8 10	1268 67	9 12	1267 65	
PZ-6D				Lower Fine Sand WBZ	9 18	1267 39	9 23	1267 34	10 82	1265 75	
PZ-7D				Lower Fine Sand WBZ	10 40	1265 43	10 92	1264 91	11 71	1264 12	
PZ-8D				Lower Fine Sand WBZ	11 01	1267 62	9 38	1269 25	10 93	1267 7	
PZ-9D				Lower Fine Sand WBZ	10 25	1267 79	10 02	1268 02	11	1267 04	
PZ-10D				Lower Fine Sand WBZ	11 25	1266 33	10 30	1267 26	11 55	1266 03	
PZ-11D				Lower Fine Sand WBZ	10 33	1268 37	9 21	1267 49	10 04	1266 68	
TV-01				Shallow WBZ	6 03	1273 07	5 71	1273 39	6 31	1272 79	
VP-5D				Lower Fine Sand WBZ	10 22	1267 88	10 34	1267 86	11 96	1266 24	
VP-6S				Upper Gravel of LFSWBZ	10 21	1266 41	9 42	1267 20	10 52	1266 1	
VP-6D				Lower Fine Sand WBZ	10 41	1268 30	9 61	1267 10	10 89	1265 82	
VP-7D				Lower Fine Sand WBZ	11 80	1267 27	11 23	1267 64	12 85	1266 02	
VP-8D				Lower Fine Sand WBZ	9 95	1287 42	10 41	1266 96	11 60	1265 77	

Comments
 WBZ - Water Bearing Zone
 * = Estimated Coordinate
 MW-5 TOC elev. altered from 1280.91 ft msl to 1280.82 ft msl on May 5, 2000
 * Wells resurveyed on 10/11/00 due to uplift of concrete from injection work.

Groundwater Extraction System Monitoring Data
July through September 2002 Water Levels

Essex/Hope Site Remedial Action
Jamestown, New York
Radian Project No. 801419

Well No.	Northing	Easting	Reference Elevation (ft msl)	Screened Zone	July 22, 2002		Depth to Water	Groundwater Elevation (ft msl)	Depth to Water	Groundwater Elevation (ft msl)	Depth to Water	Groundwater Elevation (ft msl)
					Depth to Water	Groundwater Elevation (ft msl)						
MW-1	9758 7161	10383 6499	1280 48	Shallow WBZ		13.43		1287.05				
MW-2	9837 1531	9959 6857	1279.87	Shallow WBZ	Dry							
MW-4	9792 3277	9900 7631	1281 02	Shallow WBZ		9.48		1271.56				
MW-5	9789 6222	9631 761	1280 82	Shallow WBZ		8.13		1272.69				
MW-6*	9977 1197	10118 8782	1277 98	Shallow WBZ		8.28		1269.72				
MW-7*	9978 6467	10175 6797	1277 73	Shallow WBZ		8.38		1269.37				
MW-10	9932 4702	10185 7078	1277 94	Shallow WBZ		8.04		1259.90				
MW-11*	9937 9912	10101 7010	1277 75	Shallow WBZ		8.78		1258.98				
MW-12	9883 0874	10104 9278	1278 18	Shallow WBZ		10.02		1258 18				
MW-13	9752 0619	10240 2934	1278 12	Shallow WBZ		9.96		1258 18				
MW-14S	10048 7753	10135 5188	1280 25	Shallow WBZ		13.73		1266.52				
MW-15S	10051 8272	10254 4862	1279 55	Shallow WBZ		13.69		1265.88				
MW-16S	10148 7768	10238 6582	1279 32	Shallow WBZ		12.97		1266.35				
MW-18	9994	10485	1275 59	Shallow WBZ		13.13		1265.48				
MW-18S	9958 1454	10358 207	1278 82	Shallow WBZ		10.93		1265.88				
MW-20	9895 0082	10224 2128	1278 64	Shallow WBZ		5.68		1272.78				
HW-1	9874 8053	10079 0259	1281 91	Shallow WBZ	NA	NA						
HW-2	9677 6477	10079 7882	1281.13	Shallow WBZ	NA	NA						
HW-3	9688 163	9857 6007	1283 24	Shallow WBZ	NA	NA						
HW-7	9837 3184	10293 8428	1277 55	Shallow WBZ		8.38		1271.17				
HW-8	9834 684	10312 0885	1277 81	Shallow WBZ		6.65		1271.16				
HW-9	9810 5264	10313 3873	1280 76	Shallow WBZ		9.29		1271.49				
HW-10	9837 2976	9966 7406	1279 55	Shallow WBZ		8.82		1270.73				
SP-10	9815 1846	9877 9909	1279 03	Shallow WBZ	NA	NA						
SP-11	9839 7556	9877 6072	1279 23	Shallow WBZ	NA	NA						
SP-12	9833 1836	9958 7423	1279 68	Shallow WBZ	NA	NA						
SP-13	9819 5009	9958 5764	1279 87	Shallow WBZ	NA	NA						
SP-14	9807 2232	9967 0477	1279 38	Shallow WBZ	NA	NA						
SP-15	9840 6722	10209 4525	1278 65	Shallow WBZ	NA	NA						
SP-18	9840 3119	10250 4484	1277 84	Shallow WBZ	NA	NA						
SP-17	9845 107	10287 9591	1277 58	Shallow WBZ	NA	NA						
SP-18	9555 8421	10323 265	1277.4	Shallow WBZ	NA	NA						
SDO-1	N/A	N/A	N/A	Shallow WBZ	NA	NA						
RW-1S	9932 8951	10135 8706	1278 06	Shallow WBZ		9.28		1266.78				
RW-2S*	9933 3801	10151 8403	1278 59	Shallow WBZ		10.39		1266.70				
RW-3S	9838 0594	9990 4502	1278 29	Shallow WBZ		9.03		1269.76				
RW-4S	9839 8053	10221 6766	1277 34	Shallow WBZ		8.78		1268.58				
RW-5S	9863 2271	10330 2425	1277 43	Shallow WBZ		8.19		1269.74				
MW-7D*	9973 2593	10174 8524	1277 8	Lower Fine Sand WBZ		13.47		1264.33				
MW-8	9959 6089	10127 6898	1277 97	Lower Fine Sand WBZ		12.46		1265.51				
MW-11D	9942 3792	10101 1482	1277 85	Lower Fine Sand WBZ		10.98		1266.89				
MW-14D	10049 5051	10129 1897	1280 01	Lower Fine Sand WBZ		14.71		1265.30				
MW-15D	10045 5811	10255 205	1279 48	Lower Fine Sand WBZ		14.42		1265.04				
MW-18D	10143 8497	10238 6005	1279 05	Lower Fine Sand WBZ		13.89		1265.16				
MW-17	9987 6315	9995 5207	1278.7	Lower Fine Sand WBZ		10.72		1267.98				
MW-18D	9951 569	10355 9748	1276 21	Lower Fine Sand WBZ		11.17		1265.04				
RW-1D	9926 5997	10121 3968	1276 64	Lower Fine Sand WBZ		11.89		1264.85				
RW-2D	9983 0619	10167 3168	1278 48	Lower Fine Sand WBZ		28.69		1247.77				
MW-7DD*	9970 8547	10176 2698	1277.74	Glacial Till		2.06		1275.68				
GP-1S	8954 39*	10203 02*	1278 98	Shallow WBZ		10.07		1288.91				
GP-2S	8814 89*	10201 04*	1278 63	Shallow WBZ		7.06		1271.57				
GP-2D	8814 91*	10207 84*	1278.7	Lower Fine Sand WBZ		12.83		1265.87				
GP-3S	8941 13*	10264 03*	1278 87	Shallow WBZ		10.83		1268.04				
GP-3D	8937 39*	10264 53*	1278 77	Lower Fine Sand WBZ		13.47		1265.30				
GP-4S	8940 88*	10154 97*	1278 09	Shallow WBZ		8.76		1269.30				
GP-4D	8940 85*	10151 57*	1278 09	Lower Fine Sand WBZ		12.29		1265.79				
GP-5S	8993 54*	10200 34*	1277 44	Shallow WBZ		8.61		1268.83				
GP-5D	8993 55*	10200 21*	1277 37	Lower Fine Sand WBZ	NA	NA						
PZ-1S			1277.97	Shallow WBZ		8.62		1289.35				
PZ-1D			1277.75	Lower Fine Sand WBZ		11.88		1265.87				
PZ-2D			1277.86	Lower Fine Sand WBZ		11.39		1266.47				
PZ-3D			1279.02	Lower Fine Sand WBZ		12.21		1266.81				
PZ-4D			1278.94	Lower Fine Sand WBZ		12.51		1268.43				
PZ-5S			1278 59	Shallow WBZ		8.27		1288.29				
PZ-5D			1278.52	Lower Fine Sand WBZ		10.48		1266.04				
PZ-6S			1276.77	Shallow WBZ		10.15		1266.62				
PZ-6D			1278 57	Lower Fine Sand WBZ		9.98		1266.59				
PZ-7D			1275 83	Lower Fine Sand WBZ		11.13		1284.70				
PZ-8D			1278.63	Lower Fine Sand WBZ		12.27		1266.36				
PZ-9D			1278.04	Lower Fine Sand WBZ		11.43		1266.81				
PZ-10D			1277 58	Lower Fine Sand WBZ		11.72		1265.86				
PZ-11D			1276.7	Lower Fine Sand WBZ		11.31		1265.39				
TW-01			1279.1	Shallow WBZ		4.88		1274.24				
VP-5D			1278.2	Lower Fine Sand WBZ		9.86		1268.24				
VP-6S			1276 62	Upper Gravel of LFSWBZ		10.93		1265.69				
VP-6D			1276 71	Lower Fine Sand WBZ		11.20		1265.51				
VP-7D			1278 87	Lower Fine Sand WBZ		12.31		1266.56				
VP-8D			1277 37	Lower Fine Sand WBZ		11.28		1266.09				
Comments					1736 Days of System Operation							
WBZ - Water Bearing Zone												
* = Estimated Coordinate												
MW-5 TOC elev. altered from 1280.91 ft msl to 1280.82 ft msl on May 5, 2000												
* Wells resurveyed on 10/11/00 due to uplift of concrete from injection work.												

APPENDIX B
LABORATORY CERTIFICATES OF ANALYSIS

July 26, 2002

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on July 6, 2002. Please reference Pace project number 02-2838 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

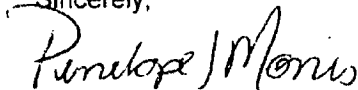
Pace Sample Identification	Client Sample Identification
0207-0647	RW-1S
0207-0648	RW-1D
0207-0649	RW-2S
0207-0650	RW-2D

Pace Sample Identification	Client Sample Identification
0207-0651	RW-3S
0207-0652	RW-4S
0207-0653	RW-5S
0207-0654	Trip Blank

General Comments: Cooler temperature 8.1 ° C upon receipt. Ice was present.

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

Sincerely,



Penelope J. Morris
Project Manager

PJG: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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



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

Lab Project ID: 02-2838
Lab Sample ID: 0207-0647
Client Sample ID: RW-1S
Sample Matrix: Aqueous

Date Sampled: 07/05/2002
Date Received: 07/06/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	14	10	ug/l	ALB	07/19/2002	072304-14	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	ALB	07/19/2002	072304-14	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	ALB	07/19/2002	072304-14	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	59	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Ethylbenzene	8260B ⁽¹⁾	77	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	ALB	07/19/2002	072304-14	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	ALB	07/19/2002	072304-14	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0207-0647
Client Sample ID: RW-1S

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Toluene	8260B ⁽¹⁾	38	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Trichloroethene	8260B ⁽¹⁾	360	50	ug/l	JEC	07/18/2002	072204-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	ALB	07/19/2002	072304-14	<2.0
m,p-Xylene	8260B ⁽¹⁾	400	50	ug/l	JEC	07/18/2002	072204-01	<5.0
o-Xylene	8260B ⁽¹⁾	80	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Pittsburgh, PA 15205

Lab Project ID: 02-2838
Lab Sample ID: 0207-0648
Client Sample ID: RW-1D
Sample Matrix: Aqueous

Date Sampled: 07/05/2002
Date Received: 07/06/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Benzene	8260B ⁽¹⁾	6.6	1.0	ug/l	JEC	07/18/2002	072204-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2300	250	ug/l	JEC	07/18/2002	072204-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	9.4	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0

(Continued)

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Lab Sample ID: 0207-0648
Client Sample ID: RW-1D

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Trichloroethene	8260B ⁽¹⁾	8.1	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	<100	100	ug/l	JEC	07/18/2002	072204-01	<2.0
m,p-Xylene	8260B ⁽¹⁾	15	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0

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

Sample Comments: Results reported on an as received basis. VOA: Vinyl chloride in the analysis of the sample without dilution yielded a concentration that was out of the calibration range (high). A dilution was run and there were no positives for vinyl chloride at or above the detection limit. A second dilution was done to confirm results and again there were no positives for vinyl chloride at or above the detection limit. All of the sample was consumed in the three runs. Vinyl chloride is reported with an elevated detection limit for this sample.

REPORT OF LABORATORY ANALYSIS

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Lab Project ID: 02-2838
Lab Sample ID: 0207-0649
Client Sample ID: RW-2S
Sample Matrix: Aqueous

Date Sampled: 07/05/2002
Date Received: 07/06/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	07/18/2002	072204-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.6	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0

(Continued)

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Lab Sample ID: 0207-0649
Client Sample ID: RW-2S

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Trichloroethene	8260B ⁽¹⁾	200	10	ug/l	ALB	07/19/2002	072304-14	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	07/18/2002	072204-01	<2.0
m,p-Xylene	8260B ⁽¹⁾	6.5	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0

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

Sample Comments: Results reported on an as received basis.

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 Pittsburgh, PA 15205

Lab Project ID: 02-2838
 Lab Sample ID: 0207-0650
 Client Sample ID: RW-2D
 Sample Matrix: Aqueous

Date Sampled: 07/05/2002
 Date Received: 07/06/2002

Client Site: Essex-Hope
 Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<10	10	ug/l	ALB	07/19/2002	072304-14	<10
Benzene	8260B ⁽¹⁾	9.1	1.0	ug/l	ALB	07/19/2002	072304-14	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
2-Butanone	8260B ⁽¹⁾	28	10	ug/l	ALB	07/19/2002	072304-14	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	50	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	7.8	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	ALB	07/19/2002	072304-14	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	ALB	07/19/2002	072304-14	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0

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Lab Sample ID: 0207-0650
Client Sample ID: RW-2D

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
Vinyl chloride	8260B ⁽¹⁾	55	2.0	ug/l	ALB	07/19/2002	072304-14	<2.0
m,p-Xylene	8260B ⁽¹⁾	12	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	ALB	07/19/2002	072304-14	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Lab Project ID: 02-2838
 Lab Sample ID: 0207-0651
 Client Sample ID: RW-3S
 Sample Matrix: Aqueous

Date Sampled: 07/05/2002
 Date Received: 07/06/2002

Client Site: Essex-Hope
 Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	07/18/2002	072204-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Cumene	8260B ⁽¹⁾	15	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	97	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0

(Continued)

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Lab Sample ID: 0207-0651
Client Sample ID: RW-3S

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Toluene	8260B ⁽¹⁾	140	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	07/18/2002	072204-01	<2.0
m,p-Xylene	8260B ⁽¹⁾	32	25	ug/l	ALB	07/19/2002	072304-14	<5.0
o-Xylene	8260B ⁽¹⁾	63	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0

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

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Lab Project ID: 02-2838
Lab Sample ID: 0207-0652
Client Sample ID: RW-4S
Sample Matrix: Aqueous

Date Sampled: 07/05/2002
Date Received: 07/06/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	25	10	ug/l	JEC	07/18/2002	072204-01	<10
Benzene	8260B ⁽¹⁾	21	1.0	ug/l	JEC	07/18/2002	072204-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Cumene	8260B ⁽¹⁾	190	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	14000	2500	ug/l	JEC	07/18/2002	072204-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0

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Lab Sample ID: 0207-0652

Client Sample ID: RW-4S

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Toluene	8260B ⁽¹⁾	7000	250	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	07/18/2002	072204-01	<2.0
m,p-Xylene	8260B ⁽¹⁾	77000	2500	ug/l	JEC	07/18/2002	072204-01	<5.0
o-Xylene	8260B ⁽¹⁾	24000	2500	ug/l	JEC	07/18/2002	072204-01	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Lab Project ID: 02-2838
Lab Sample ID: 0207-0653
Client Sample ID: RW-5S
Sample Matrix: Aqueous

Date Sampled: 07/05/2002
Date Received: 07/06/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Benzene	8260B ⁽¹⁾	29	1.0	ug/l	JEC	07/18/2002	072204-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Cumene	8260B ⁽¹⁾	51	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	180	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0

(Continued)

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Lab Sample ID: 0207-0653

Client Sample ID: RW-5S

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Toluene	8260B ⁽¹⁾	6.6	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	07/18/2002	072204-01	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
o-Xylene	8260B ⁽¹⁾	35	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0

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

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 02-2838
Lab Sample ID: 0207-0654
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 07/05/2002
Date Received: 07/06/2002

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	07/18/2002	072204-01	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/18/2002	072204-01	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0207-0654
Client Sample ID: Trip Blank

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	07/18/2002	072204-01	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/18/2002	072204-01	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc.



680528

Required Client Information: Section A

Company: URS Corp.

Address: 4955 Steubenville Pike
Pittsburgh PA 15205

Phone: 412-788-2717 Fax: _____

Required Client Information: Section B

Report To: Keith Dodrill

Copy To: _____

Invoice To: _____

P.O.: _____

Project Name: Essex-Hope

Project Number: 801419.2030

Page: _____ of _____

To Be Completed by Pace Analytical and Client Section C

Quote Reference: _____

Project Manager: _____

Project #: 02-2838

Profile #: _____

Requested Analysis: _____

ITEM #	SAMPLE ID	Valid Matrix Codes MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives							Remarks / Lab ID
						Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	
1	RW1S	WT	7-5-02	1240	2			X					0207-0647
2	RW1D			1250	}			X					0648
3	RW2S			1300				X					0649
4	RW2D			1310				X					0650
5	RW3S			1320				X					0651
6	RW4S			1330				X					0652
7	RW5S			1340				X					0653
8	Temp Blank					3			X				
9	Temp Blank				1			X					
10													
11													
12													

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Fed Ex	8278-8330-4857	7-5-02	1		John Ross URS	7-5-02	1700	Fed Express		

SAMPLE CONDITION

Temp in °C: 8.1

Received on Ice: Y/N

Sealed Cooler: Y/N

Samples Intact: Y/N

Additional Comments:
8105

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Ross

SIGNATURE of SAMPLER: [Signature]

DATE Signed: (MM / DD / YY) 7-5-02 1400



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

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

May 10, 2002

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

Dear Mr. Dodrill:

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

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

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

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

Sincerely,

Penelope J. Morris

Penelope J. Morris
Project Manager

PJG: jld

Enclosures

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

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

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

Client Site: Essex-Hope
 Client Ref.: 801419.2030

Volatiles

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

(Continued)

Lab Sample ID: 0204-1699

Client Sample ID: Pre-Carb

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

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

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

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

Client Site: Essex-Hope
 Client Ref.: 801419.2030

0004

Volatiles

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

(Continued)

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

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

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

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

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

Client Site: Essex-Hope
 Client Ref.: 801419.2030

0205

Volatiles

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

(Continued)

Lab Sample ID: 0204-1701

Client Sample ID: Post-Carb

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

0007

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

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

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

Client Site: Essex-Hope
 Client Ref.: 801419.2030

8558

Volatiles

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

(Continued)

Lab Sample ID: 0204-1702

Client Sample ID: Trip Blank

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

0009

Chain of Custody Record

PROJECT 801419.2030			NO. OF CONTAINERS	ANALYSES <i>260 VOCs</i>										
SITE Essex Hope														
COLLECTED BY (Signature) <i>John L. Perez</i>														
FIELD SAMPLE I.D.														
SAMPLE MATRIX			DATE/TIME			REMARKS			SAM ID NO. (for lab use only)					
Pre Carb			AQ			4-25-07 1530			2			041659		
Primary Effluent						4-25-07 1530			2			1700		
Post Carb						4-25-07 1530			2			1701		
Post Carb						4-25-07 1600			2					
Post Carb						4-25-07 1630			2					
Post Carb						4-25-07 1700			2					
Trip Blank									3			1702		
Temp Blank									1					
REMARKS <i>Combine 4 post carb samples into one for analysis</i>										RELINQUISHED BY: <i>John L. Perez</i>		DATE 4/25/07	TIME 1530	
RECEIVED BY: <i>Fed. Ex</i>	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME			

LAB USE ONLY

RECEIVED FOR LABORATORY BY: <i>[Signature]</i>	DATE 4/25/07	TIME 1530	AIRBILL NO. 827693304770	OPENED BY: <i>[Signature]</i>	DATE	TIME	TEMP °C 102	SEAL #	CONDITION
REMARKS									

0001

June 14, 2002

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

Dear Mr. Dodrill:

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

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

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

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

Sincerely,



Penelope J. Morris
Project Manager

PJG: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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

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

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

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

3002

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

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

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc.

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

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

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

0604

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

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

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

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

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

0006

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	1200	10	ug/l	JEC	06/11/2002	061204-01	<5.0
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	06/10/2002	061104-05	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
2-Butanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	19	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
2-Hexanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
4-Methyl-2-pentanone	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	06/10/2002	061104-05	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

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

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

0008

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

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

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0205-1744
Client Sample ID: Trip Blank

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Chain of Custody Record

PROJECT 80149.2030			NO. OF CONTAINERS	8260 LGA Suspended Solids	ANALYSES					Suspended Solids Sample fees to Project # 804041.85	
SITE Essex - Hope											
COLLECTED BY (Signature) John L. Ross											
FIELD SAMPLE I.D.											
SAMPLE MATRIX		DATE/TIME								SAM ID NO. (for lab use only)	
Pre-Carb	WT	5-30-02 1630	2	}						05-1741	
Post-Carb	}	5-30-02 1630	2								1742
Primary Effluent		5-30-02 1630	2								1743
Post-Carb		5-30-02 1700	2								1742
Post-Carb		5-30-02 1730	2								
Post-Carb		5-30-02 1800	2								
Trip-Blank					3						
Temp-Blank				1							
Post-Carb		5-30-02 1730	1								
REMARKS Combine 4 Post-Carb samples into one for analysis									RELINQUISHED BY: J. Ross	DATE 5-30-02	TIME 1815
RECEIVED BY: Fed Express	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

LAB USE ONLY

RECEIVED FOR LABORATORY BY: K. [Signature]	DATE 5/30/02	TIME 11:30	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS Trip blank vials have air bubbles.									

July 16, 2002

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

Dear Mr. Dodrill:

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

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

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

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

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

Sincerely,



Penelope J. Morris
Project Manager

PJG: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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

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

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

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

Volatiles

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

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

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

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

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

Volatiles

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

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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

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

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

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

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B ⁽¹⁾	2800	500	ug/l	JEC	07/12/2002	071504-04	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	07/11/2002	071204-04	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/11/2002	071204-04	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/11/2002	071204-04	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	07/11/2002	071204-04	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	07/11/2002	071204-04	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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4955 Steubenville Pike
Pittsburgh, PA 15205

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

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

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

Volatiles

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

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Volatiles (Cont.)

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

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical

www.pacelabs.com

681038

Section C

Required Client Information: Section A

Required Client Information: Section B

To Be Completed by Pace Analytical and Client

Company: URS
Address: 4955 Stenbenville Pike, Pittsburgh PA 15205
Phone: 412-788-2717

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

Client Information (Check quote/contract):
Requested Date:
* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Quote Reference:
Project Manager:
Project #: 02-2725
Profile #:
Requested Analysis:

Table with columns: ITEM #, Section D Required Client Information (SAMPLE ID), Valid Matrix Codes (MATRIX, WATER, SOIL, OIL, WIPE, AIR, TISSUE, OTHER) and CODE (WT, SL, OL, WP, AR, TS, QT), DATE COLLECTED, TIME COLLECTED, # Containers, Preservatives (Unpreserved, H2SO4, HNO3, HCl, NaOH, Na2S2O3, Methanol, Other), Remarks / Lab ID.

Main data table with columns for Sample ID, Date/Time, Containers, Preservatives, and Lab ID. Includes entries for PRE-CARB, PRIMARY EFFLUENT, POST-CARB, and TRIP BLANK.

Summary row with columns: SHIPMENT METHOD (Fed Ex), AIRBILL NO. (8278-8330-4800), SHIPPING DATE (6-28-02), NO. OF COOLERS (1), ITEM NUMBER (1), RELINQUISHED BY / AFFILIATION (John Ross - URS), DATE (6-28-02 1800), ACCEPTED BY / AFFILIATION (Cathy), DATE (7-1-02), TIME (10A).

SAMPLE CONDITION and SAMPLE NOTES table. Includes fields for Temp in °C, Received on Ice, Sealed Cooler, and Samples Intact.

SAMPLER NAME AND SIGNATURE: John Ross. SIGNATURE of SAMPLER: [Signature]. DATE Signed: (MM / DD / YY) 6-28-02.

Additional Comments: 0100 Combine 4 Post-Carb samples into