

32N03.6W68

GRAF

UCAR CARBON COMPANY INC.
a GrafTech International Ltd. Company

Advanced Carbon Materials
791 Sante Fe Pike, Columbia, TN 38401

May 16, 2005

Ms. Mary F. McIntosh
Engineering Geologist II
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
270 Michigan Avenue
Buffalo, NY 14203-2999

REC-110

MAY 27 2005

NYSDEC REC-9
FOIL
REL UNREL

Dear Ms. McIntosh:

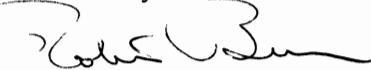
Re: Annual Monitoring Event
UCAR Republic SWMF #32N03

The annual monitoring event for the above-referenced Site was conducted between March 29 and 30, 2005. Monitoring well MW-2 was purged to dryness and did not recover sufficient volume for sampling; therefore, no analytical results were obtained for this well during this monitoring period. The sample collection and analyses were performed in accordance with the program outlined in the letters from M. McIntosh (New York State Department of Environmental Conservation) to R. Bucci (UCAR), dated January 18, 2000 and February 23, 2000. A sample collection and analysis summary is presented in Table 1 and water level elevations measured prior to well purging are presented in Table 2. The analytical laboratory report for this sampling event is enclosed and the data are summarized in Table 3.

The analytical data from this monitoring event are consistent with the historical data.

Should you have any questions or require additional information, please do not hesitate to contact the undersigned. Just to let you know that the UCAR location in Niagara Falls has closed it's office, I will still be responsible for the landfill, you may contact me at (716) 297-6772 or by mail at 3344 Wildwood Dr Niagara Falls, New York 14304.

Yours truly,



Robert Bucci
Consultant

R. Bucci
Encl.

c.c.: M. Hans
M. Hinton

MAR 27 2005
REC'D REC'D
FOIL
REL UNREL

UCAR
Niagara Falls, NY
SEMI-ANNUAL GROUNDWATER SAMPLING

March 29-30, 2005

5513-02

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
 POST-CLOSURE MONITORING PROGRAM
 UCAR REPUBLIC SWMU #32NO3
 NIAGARA FALLS, NEW YORK
 MARCH 2005

Well I.D.	Purge Date	Sample Date	Sample ID	One Well Volume (Gallons)	Total Volume Purged (Gallons)	Turbidity (NTU)	Analytical Parameters			Misc. ⁽¹⁾ Parameters	Comments
							VOCs	Total Metals	Dissolved Metals		
MW-1	03/29/05	03/30/05	WG-5513-033005-005	2.2	2.4	41	X✓	X		X	
MW-2	03/29/05	-	-	0.5	0.5	NM					(2)
MW-3	03/30/05	03/30/05	WG-5513-033005-010	2	6	110	X✓	X	X	X	
BW-1	03/29/05	03/29/05	WG-5513-033005-002	11	33	14	X✓	X		X	MS/MSD
BW-2	03/29/05	03/29/05	WG-5513-033005-004	14.6	43.8	490	X✓	X	X	X	
BW-3	03/30/05	03/30/05	WG-5513-033005-008	9.2	27.6	9	X✓	X		X	
BW-4	03/30/05	03/30/05	WG-5513-033005-0006/007	10.5	42	140	X✓	X	X	X	Blind duplicate
BW-5	03/30/05	03/30/05	WG-5513-033005-009	10.4	31.2	12	X✓	X		X	
BW-6	03/30/05	03/30/05	WG-5513-033005-011	10.6	53	160	X✓	X	X	X	
GW-8B	03/29/05	03/29/05	WG-5513-033005-001	8.1	24.3	13	X✓	X		X	
GW-9B	03/29/05	03/29/05	WG-5513-033005-003	8.1	24.3	39	X✓	X		X	

Notes:

(1) Nitrite, Nitrogen, NO₂, Ammonia, Total KJELDAHL Nitrogen.

(2) Not Sampled, Insufficient Volume.

MS Matrix Spike.

MSD Matrix Spike Duplicate.

NM Not Measured.

NTU Nephelometric Turbidity Unit.

VOCs Volatile Organic Compounds.

RECEIVED
 MAR 31 2005
 NIAGARA FALLS
 NEW YORK

TABLE 2

HYDRAULIC MONITORING
POST-CLOSURE MONITORING PROGRAM
UCAR REPUBLIC SWMU #32NO3
NIAGARA FALLS, NEW YORK
MARCH 2005

<i>Well I.D.</i>	<i>TOC Elevation (Ft. AMSL)</i>	<i>Depth to Water (Ft. BTOC)</i>	<i>Water Level Elevation (Ft. AMSL)</i>
MW-1	612.00	7.29	604.71
MW-2	608.17	23.74	584.43
MW-3	601.89	2.71	599.18
BW-1	610.72	12.62	598.10
BW-2	608.43	7.72	600.71
BW-3	604.72	3.36	601.36
BW-4	607.08	4.75	602.33
BW-5	603.33	0.55	602.78
BW-6	607.04	13.65	593.39
GW-8B	603.90	7.65	596.25
GW-9B	603.40	10.12	593.28

Notes:

Ft. AMSL Feet Above Mean Sea Level.

Ft. BTOC Feet Below Top of Casing.

Ft. Feet.

NM Not Measured.

TABLE 3

ANALYTICAL RESULTS SUMMARY
POST-CLOSURE MONITORING PROGRAM
UCAR REPUBLIC SWMU #32NO3
NIAGARA FALLS, NY
MARCH 2005

	Sample ID:	WG-5513-032905-002	WG-5513-032905-004	WG-5513-033005-008	WG-5513-033005-006	WG-5513-033005-007	WG-5513-033005-009
	Location ID:	BW-1	BW-2	BW-3	BW-4	BW-4	BW-5
	Collection Date:	03/29/05	03/29/05	03/30/05	03/30/05	03/30/05	03/30/05
Parameters	Units					Duplicate	
TCL Volatiles							
Acetone	µg/L	20 U	20 U	20 U	40 U	40 U	20 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
Bromomethane	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
2-Butanone	µg/L	10 U	10 U	10 U	20 U	20 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	20 U	20 U	10 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
Chloroethane	µg/L	20 ✓	5.0 U	5.0 U	10 U	10 U	5.0 U
Chloroform	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
Chloromethane	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	540 ✓	530 ✓	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
Ethyl benzene	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
2-Hexanone	µg/L	10 U	10 U	10 U	20 U	20 U	10 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
4-Methyl-2-pentanone	µg/L	10 U	10 U	10 U	20 U	20 U	10 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	64 ✓	65 ✓	5.0 U
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	180 ✓	180	5.0 U
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	180 ✓	180	5.0 U
o-Xylenes	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U
m/p-Xylenes	µg/L	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U

TABLE 3

**ANALYTICAL RESULTS SUMMARY
POST-CLOSURE MONITORING PROGRAM
UCAR REPUBLIC SWMU #32NO3
NIAGARA FALLS, NY
MARCH 2005**

<i>Parameters</i>	<i>Units</i>	<i>Sample ID:</i> WG-5513-032905-002	WG-5513-032905-004	WG-5513-033005-008	WG-5513-033005-006	WG-5513-033005-007	WG-5513-033005-009
		<i>Location ID:</i> BW-1	BW-2	BW-3	BW-4	BW-4	BW-5
		<i>Collection Date:</i> 03/29/05	03/29/05	03/30/05	03/30/05	03/30/05 <i>Duplicate</i>	03/30/05
<i>Metals</i>							
Iron (total)	mg/L	2.12	36.4	0.407	9.33	11.4	1.98
Potassium (total)	mg/L	8.76	8.86	2.00 U	14.0	14.5	2.08
Zinc (total)	mg/L	0.716	9.39	0.187	0.728	0.805	0.0891
Iron (dissolved)	mg/L	-	0.463	-	5.53	5.42	-
Potassium (dissolved)	mg/L	-	9.56	-	14.2	13.7	-
Zinc (dissolved)	mg/L	-	1.14	-	0.346	0.355	-
<i>General Chemistry</i>							
Ammonia	mg/L	0.984	0.0795	0.0500 U	1.93	1.93	0.0749
Nitrite	mg/L	0.0100 U	0.0207	0.0100 U	0.0154	0.0252	0.0158
Total Kjeldahl Nitrogen	mg/L	1.96	11.9	0.200 U	2.58	2.93	0.246

Notes:

- Not analyzed.

TCL Target Compound List.

U Non-detect at associated value.

TABLE 3

**ANALYTICAL RESULTS SUMMARY
POST-CLOSURE MONITORING PROGRAM
UCAR REPUBLIC SWMU #32NO3
NIAGARA FALLS, NY
MARCH 2005**

		Sample ID:	WG-5513-033005-011	WG-5513-032905-001	WG-5513-032905-003	WG-5513-033005-005	WG-5513-033005-010
		Location ID:	BW-6	GW-8B	GW-9B	MW-1	MW-3
		Collection Date:	03/30/05	03/29/05	03/29/05	03/30/05	03/30/05
Parameters	Units						
TCL Volatiles							
Acetone	µg/L	20 U	20 U	20 U	20 U	20 U	
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Bromomethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
2-Butanone	µg/L	10 U	10 U	10 U	10 U	10 U	
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U	
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Chloroform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Chloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
cis-1,2-Dichloroethene	µg/L	5.0 U	22 ✓	5.0 U	5.0 U	5.0 U	
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Ethyl benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
4-Methyl-2-pentanone	µg/L	10 U	10 U	10 U	10 U	10 U	
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Trichloroethene	µg/L	5.0 U	6.5 ✓	5.0 U	5.0 U	5.0 U	
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
o-Xylenes	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
m/p-Xylenes	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	

TABLE 3

**ANALYTICAL RESULTS SUMMARY
POST-CLOSURE MONITORING PROGRAM
UCAR REPUBLIC SWMU #32NO3
NIAGARA FALLS, NY
MARCH 2005**

		<i>Sample ID:</i>	WG-5513-033005-011	WG-5513-032905-001	WG-5513-032905-003	WG-5513-033005-005	WG-5513-033005-010
		<i>Location ID:</i>	BVW-6	GW-8B	GW-9B	MW-1	MW-3
		<i>Collection Date:</i>	03/30/05	03/29/05	03/29/05	03/30/05	03/30/05
<i>Parameters</i>	<i>Units</i>						
<i>Metals</i>							
Iron (total)	mg/L		12.8	0.286	0.211	3.44	4.07
Potassium (total)	mg/L		2.49	6.07	4.50	3.42	3.08
Zinc (total)	mg/L		0.0364	0.590	0.0200 U	0.0238	0.0305
Iron (dissolved)	mg/L		6.19	-	-	-	0.439
Potassium (dissolved)	mg/L		2.00 U	-	-	-	2.00 U
Zinc (dissolved)	mg/L		0.0200 U	-	-	-	0.0200 U
<i>General Chemistry</i>							
Ammonia	mg/L		0.200 U	0.0500 U	0.376	0.137	0.100 U
Nitrite	mg/L		0.0100 U	0.0100 U	0.0100 U	0.0301	0.0158
Total Kjeldahl Nitrogen	mg/L		0.533	0.238	0.757	0.445	0.449

Notes:

- Not analyzed.
- TCL Target Compound List.
- U Non-detect at associated value.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

27/05/05
RE-UNREL

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Conestoga Rovers & Associates
Project Reference: UCAR ANNUAL EVENT 3/05 #5513
Lab Submission # : R2525189
Project Manager : Karen Bunker
Reported : 04/19/05

Report Contains a total of 80 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael K. Perry*

Case Narrative

Company: Conestoga Rovers & Associates, Inc.

Project: UCAR Annual Event #5513

Submission #: R2525189

CRA collected UCAR water samples over the period from 03/29-03/30/05. Samples were submitted to the laboratory via CAS Courier. The samples were received at a cooler temperature of 2-5°C. All samples were unbroken and on ice.

VOLATILE ORGANICS

A total of thirteen (13) water samples, eleven groundwaters and two Trip Blanks, were analyzed for the Target Compound List of Volatile Organics, by Method 8260B from SW-846.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits.

Cis-1,2-Dichloroethene for WG-5513-033005-006 (CAS Order # 797562) and WG-5513-033005-007 (CAS Order#797564) was outside the calibration range of the instrument and is flagged with an "E". The samples were reanalyzed at dilutions and both sets of data are reported.

Site QC was performed on location WG-5513-032905-002 (CAS Order # 797557) and is provided in the report package. All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were within acceptance limits. All Relative Percent Difference (RPD) calculations were acceptable. All Laboratory Control Sample recoveries were within limits.

The Trip Blank and Laboratory Method Blanks associated with this analysis were free from contamination.

The Volatile Internal Standard Area and RT Summary Form 8A's are included in the report.

The sample vials were checked for preservation after analysis so as to maintain the integrity of the sample. All were found to be properly preserved to a pH of <2.

No other analytical or QC problems were encountered.

Inorganics

Eleven (11) water samples were submitted for analysis of TKN by method 351.2, Nitrite by method 353.2, Ammonia by method 350.1, and ICP metals- Iron, Potassium, and Zinc by method 6010B. Four locations were also analyzed for Soluble metals, the aliquots were field filtered. The client confirmed that the samples were to be analyzed for Nitrite rather than Nitrate as was listed on the chain of custody.

All initial and continuing calibration criteria were met.

Site QC is included in the report package for location WG-5513-032905-001 (CAS Order # 797555) for NH₃ and for location WG-5513-033005-005 (CAS Order#797561) for TKN. All Blank Spike Recoveries were within QC acceptance limits. All Method Blanks were free of contamination.

No problems were encountered during the analysis of these samples.



This report contains analytical results for the following samples:

Submission #: R2525189

<u>Lab ID</u>	<u>Client ID</u>
797554	TRIP BLANK
797555	WG-5513-032905-001
797557	WG-5513-032905-002
797558	WG-5513-032905-003
797560	WG-5513-032905-004
797561	WG-5513-033005-005
797562	WG-5513-033005-006
797564	WG-5513-033005-007
797565	WG-5513-033005-008
797567	WG-5513-033005-009
797569	WG-5513-033005-010
797570	WG-5513-033005-011
797572	TB-5513-033005-DC
802188	WG-5513-032905-004 SOLUBLE
802567	WG-5513-033005-006 SOLUBLE
802568	WG-5513-033005-007 SOLUBLE
802569	WG-5513-033005-010 SOLUBLE
802718	WG-5513-033005-011 SOLUBLE



ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds, or when the data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit and greater than the MDL.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292



INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL). This qualifier may also be used to indicate that there was contamination above the reporting limit in the associated blank. See Narrative for details.
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because the serial dilution did not meet criteria.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : TRIP BLANK

Date Sampled : 03/29/05

Order #: 797554

Sample Matrix: WATER

Date Received: 03/30/05

Submission #: R2525189

Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : TRIP BLANK

Date Sampled : 03/29/05 Order #: 797554 Sample Matrix: WATER
Date Received: 03/30/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 1.00			
VINYL ACETATE	10	10 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	104	%
TOLUENE-d8	(88 - 124 %)	100	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	110	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-001

Date Sampled : 03/29/05 09:00

Order #: 797555

Sample Matrix: WATER

Date Received: 03/30/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	0.0500 U	MG/L	04/05/05	12:04	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	03/30/05	17:07	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.238	MG/L	04/07/05	13:48	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-001

Date Sampled : 03/29/05 09:00

Order #: 797555

Sample Matrix: WATER

Date Received: 03/30/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	0.286	MG/L	04/04/05	1.0
POTASSIUM	6010B	2.00	6.07	MG/L	04/04/05	1.0
ZINC	6010B	0.0200	0.590	MG/L	04/07/05	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-001

Date Sampled : 03/29/05 09:00 Order #: 797555 Sample Matrix: WATER
Date Received: 03/30/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 04/08/05		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	20 U	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	22	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	6.5	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-001

Date Sampled : 03/29/05 09:00 Order #: 797555 Sample Matrix: WATER
Date Received: 03/30/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
VINYL ACETATE	10	10 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	103	%
TOLUENE-d8	(88 - 124 %)	101	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	108	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-002

Date Sampled : 03/29/05 10:00

Order #: 797557

Sample Matrix: WATER

Date Received: 03/30/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.984	MG/L	04/05/05	12:04	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	03/30/05	17:07	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	1.96	MG/L	04/07/05	13:48	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-002

Date Sampled : 03/29/05 10:00

Order #: 797557

Sample Matrix: WATER

Date Received: 03/30/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	2.12	MG/L	04/04/05	1.0
POTASSIUM	6010B	2.00	8.76	MG/L	04/04/05	1.0
ZINC	6010B	0.0200	0.716	MG/L	04/07/05	1.0

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-002

Date Sampled : 03/29/05 10:00 Order #: 797557 Sample Matrix: WATER
Date Received: 03/30/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	20	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B 360 BASELINE
Reported: 04/19/05

Conestoga Rovers & Associates
Project Reference: UCAR ANNUAL EVENT 3/05 #5513
Client Sample ID : WG-5513-032905-002

Date Sampled : 03/29/05 10:00 Order #: 797557 Sample Matrix: WATER
Date Received: 03/30/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 1.00			
VINYL ACETATE	10	10 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	105	%
TOLUENE-d8	(88 - 124 %)	101	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	112	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-003

Date Sampled : 03/29/05 12:00

Order #: 797558

Sample Matrix: WATER

Date Received: 03/30/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.376	MG/L	04/05/05	12:04	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	03/30/05	17:07	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.757	MG/L	04/07/05	13:48	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-003

Date Sampled : 03/29/05 12:00

Order #: 797558

Sample Matrix: WATER

Date Received: 03/30/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	0.211	MG/L	04/04/05	1.0
POTASSIUM	6010B	2.00	4.50	MG/L	04/04/05	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	04/07/05	1.0

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-003

Date Sampled : 03/29/05 12:00 Order #: 797558 Sample Matrix: WATER
Date Received: 03/30/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B 360 BASELINE
Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-003

Date Sampled : 03/29/05 12:00 Order #: 797558 Sample Matrix: WATER
Date Received: 03/30/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 1.00			
VINYL ACETATE	10	10 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	101	%
TOLUENE-d8	(88 - 124 %)	99	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	112	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-004

Date Sampled : 03/29/05 13:20

Order #: 797560

Sample Matrix: WATER

Date Received: 03/30/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	0.0795	MG/L	04/05/05	12:04	1.0
NITRITE NITROGEN	353.2	0.0100	0.0207	MG/L	03/30/05	17:07	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	11.9	MG/L	04/07/05	13:48	2.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-004

Date Sampled : 03/29/05 13:20

Order #: 797560

Sample Matrix: WATER

Date Received: 03/30/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	36.4	MG/L	04/04/05	1.0
POTASSIUM	6010B	2.00	8.86	MG/L	04/04/05	1.0
ZINC	6010B	0.0200	9.39	MG/L	04/07/05	10.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-004 SOLUBLE

Date Sampled : 03/29/05 13:20

Order #: 802188

Sample Matrix: WATER

Date Received: 03/30/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	0.463	MG/L	04/04/05	1.0
POTASSIUM	6010B	2.00	9.56	MG/L	04/04/05	1.0
ZINC	6010B	0.0200	1.14	MG/L	04/07/05	1.0

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-004

Date Sampled : 03/29/05 13:20 Order #: 797560 Sample Matrix: WATER
Date Received: 03/30/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B 360 BASELINE
Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-032905-004

Date Sampled : 03/29/05 13:20 Order #: 797560 Sample Matrix: WATER
Date Received: 03/30/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 1.00			
VINYL ACETATE	10	10 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	107	%
TOLUENE-d8	(88 - 124 %)	101	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	108	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-005

Date Sampled : 03/30/05 09:15

Order #: 797561

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.137	MG/L	04/05/05	12:04	1.0
NITRITE NITROGEN	353.2	0.0100	0.0301	MG/L	03/31/05	15:59	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.445	MG/L	04/07/05	13:48	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-005

Date Sampled : 03/30/05 09:15

Order #: 797561

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	3.44	MG/L	04/06/05	1.0
POTASSIUM	6010B	2.00	3.42	MG/L	04/06/05	1.0
ZINC	6010B	0.0200	0.0238	MG/L	04/06/05	1.0

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-005

Date Sampled : 03/30/05 09:15 Order #: 797561 Sample Matrix: WATER
Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B 360 BASELINE
Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-005

Date Sampled : 03/30/05 09:15 Order #: 797561 Sample Matrix: WATER
Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
VINYL ACETATE	10	10 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	103	%
TOLUENE-d8	(88 - 124 %)	97	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	107	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-006

Date Sampled : 03/30/05 10:00

Order #: 797562

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	1.93	MG/L	04/05/05	12:04	1.0
NITRITE NITROGEN	353.2	0.0100	0.0154	MG/L	03/31/05	15:59	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	2.58	MG/L	04/07/05	13:48	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-006

Date Sampled : 03/30/05 10:00

Order #: 797562

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	9.33	MG/L	04/06/05	1.0
POTASSIUM	6010B	2.00	14.0	MG/L	04/06/05	1.0
ZINC	6010B	0.0200	0.728	MG/L	04/06/05	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-006 SOLUBLE

Date Sampled : 03/30/05 10:00

Order #: 802567

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	5.53	MG/L	04/06/05	1.0
POTASSIUM	6010B	2.00	14.2	MG/L	04/06/05	1.0
ZINC	6010B	0.0200	0.346	MG/L	04/06/05	1.0

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-006

Date Sampled : 03/30/05 10:00 Order #: 797562 Sample Matrix: WATER
Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 2.00			
ACETONE	20	40 U	UG/L
ACRYLONITRILE	100	200 U	UG/L
BENZENE	5.0	10 U	UG/L
BROMOCHLOROMETHANE	5.0	10 U	UG/L
BROMODICHLOROMETHANE	5.0	10 U	UG/L
BROMOFORM	5.0	10 U	UG/L
BROMOMETHANE	5.0	10 U	UG/L
2-BUTANONE (MEK)	10	20 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	10 U	UG/L
CARBON DISULFIDE	10	20 U	UG/L
CARBON TETRACHLORIDE	5.0	10 U	UG/L
CHLOROBENZENE	5.0	10 U	UG/L
CHLOROETHANE	5.0	10 U	UG/L
CHLOROFORM	5.0	10 U	UG/L
CHLOROMETHANE	5.0	10 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10 U	UG/L
1,2-DIBROMOETHANE	5.0	10 U	UG/L
DIBROMOMETHANE	5.0	10 U	UG/L
1,4-DICHLOROBENZENE	5.0	10 U	UG/L
1,2-DICHLOROBENZENE	5.0	10 U	UG/L
1,1-DICHLOROETHANE	5.0	10 U	UG/L
1,2-DICHLOROETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHENE	5.0	10 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	10 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	560 E	UG/L
1,2-DICHLOROPROPANE	5.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
ETHYLBENZENE	5.0	10 U	UG/L
2-HEXANONE	10	20 U	UG/L
IODOMETHANE	10	20 U	UG/L
METHYLENE CHLORIDE	5.0	10 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20 U	UG/L
STYRENE	5.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	10 U	UG/L
TETRACHLOROETHENE	5.0	64	UG/L
TOLUENE	5.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	10 U	UG/L
TRICHLOROETHENE	5.0	180	UG/L
TRICHLOROFLUOROMETHANE	5.0	10 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	10 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-006

Date Sampled : 03/30/05 10:00 **Order #:** 797562 **Sample Matrix:** WATER
Date Received: 03/31/05 **Submission #:** R2525189 **Analytical Run** 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 2.00			
VINYL ACETATE	10	20 U	UG/L
VINYL CHLORIDE	5.0	180	UG/L
M+P-XYLENE	5.0	10 U	UG/L
O-XYLENE	5.0	10 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	102	%
TOLUENE-d8	(88 - 124 %)	97	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	110	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-006

Date Sampled : 03/30/05 10:00 Order #: 797562 Sample Matrix: WATER
 Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
ACRYLONITRILE	100	500 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMOCHLOROMETHANE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	25 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,2-DIBROMOETHANE	5.0	25 U	UG/L
DIBROMOMETHANE	5.0	25 U	UG/L
1,4-DICHLOROBENZENE	5.0	25 U	UG/L
1,2-DICHLOROBENZENE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	540	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
IODOMETHANE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	66	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	170	UG/L
TRICHLOROFLUOROMETHANE	5.0	25 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	25 U	UG/L

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513**Client Sample ID :** WG-5513-033005-006

Date Sampled : 03/30/05 10:00 **Order #:** 797562 **Sample Matrix:** WATER
Date Received: 03/31/05 **Submission #:** R2525189 **Analytical Run** 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 04/08/05		
ANALYTICAL DILUTION:	5.00		
VINYL ACETATE	10	50 U	UG/L
VINYL CHLORIDE	5.0	160	UG/L
M+P-XYLENE	5.0	25 U	UG/L
O-XYLENE	5.0	25 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	101	%
TOLUENE-d8	(88 - 124 %)	98	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	109	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-007

Date Sampled : 03/30/05 10:15

Order #: 797564

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	1.93	MG/L	04/05/05	12:04	1.0
NITRITE NITROGEN	353.2	0.0100	0.0252	MG/L	03/31/05	15:59	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	2.93	MG/L	04/07/05	13:48	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-007

Date Sampled : 03/30/05 10:15

Order #: 797564

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	11.4	MG/L	04/06/05	1.0
POTASSIUM	6010B	2.00	14.5	MG/L	04/06/05	1.0
ZINC	6010B	0.0200	0.805	MG/L	04/06/05	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-007 SOLUBLE

Date Sampled : 03/30/05 10:15

Order #: 802568

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	5.42	MG/L	04/06/05	1.0
POTASSIUM	6010B	2.00	13.7	MG/L	04/06/05	1.0
ZINC	6010B	0.0200	0.355	MG/L	04/06/05	1.0

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-007

Date Sampled : 03/30/05 10:15 Order #: 797564 Sample Matrix: WATER
Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 2.00			
ACETONE	20	40 U	UG/L
ACRYLONITRILE	100	200 U	UG/L
BENZENE	5.0	10 U	UG/L
BROMOCHLOROMETHANE	5.0	10 U	UG/L
BROMODICHLOROMETHANE	5.0	10 U	UG/L
BROMOFORM	5.0	10 U	UG/L
BROMOMETHANE	5.0	10 U	UG/L
2-BUTANONE (MEK)	10	20 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	10 U	UG/L
CARBON DISULFIDE	10	20 U	UG/L
CARBON TETRACHLORIDE	5.0	10 U	UG/L
CHLOROBENZENE	5.0	10 U	UG/L
CHLOROETHANE	5.0	10 U	UG/L
CHLOROFORM	5.0	10 U	UG/L
CHLOROMETHANE	5.0	10 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10 U	UG/L
1,2-DIBROMOETHANE	5.0	10 U	UG/L
DIBROMOMETHANE	5.0	10 U	UG/L
1,4-DICHLOROBENZENE	5.0	10 U	UG/L
1,2-DICHLOROBENZENE	5.0	10 U	UG/L
1,1-DICHLOROETHANE	5.0	10 U	UG/L
1,2-DICHLOROETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHENE	5.0	10 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	10 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	570 E	UG/L
1,2-DICHLOROPROPANE	5.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
ETHYLBENZENE	5.0	10 U	UG/L
2-HEXANONE	10	20 U	UG/L
IODOMETHANE	10	20 U	UG/L
METHYLENE CHLORIDE	5.0	10 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20 U	UG/L
STYRENE	5.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	10 U	UG/L
TETRACHLOROETHENE	5.0	65	UG/L
TOLUENE	5.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	10 U	UG/L
TRICHLOROETHENE	5.0	180	UG/L
TRICHLOROFLUOROMETHANE	5.0	10 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	10 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-007

Date Sampled : 03/30/05 10:15 Order #: 797564 Sample Matrix: WATER
Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 2.00			
VINYL ACETATE	10	20 U	UG/L
VINYL CHLORIDE	5.0	180	UG/L
M+P-XYLENE	5.0	10 U	UG/L
O-XYLENE	5.0	10 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	103	%
TOLUENE-d8	(88 - 124 %)	98	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	113	%

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-007

Date Sampled : 03/30/05 10:15 Order #: 797564
Date Received: 03/31/05 Submission #: R2525189Sample Matrix: WATER
Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
ACRYLONITRILE	100	500 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMOCHLOROMETHANE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	25 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,2-DIBROMOETHANE	5.0	25 U	UG/L
DIBROMOMETHANE	5.0	25 U	UG/L
1,4-DICHLOROBENZENE	5.0	25 U	UG/L
1,2-DICHLOROBENZENE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	530	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
IODOMETHANE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	65	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	170	UG/L
TRICHLOROFLUOROMETHANE	5.0	25 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	25 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B 360 BASELINE
Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-007

Date Sampled : 03/30/05 10:15 Order #: 797564 Sample Matrix: WATER
Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 5.00			
VINYL ACETATE	10	50 U	UG/L
VINYL CHLORIDE	5.0	170	UG/L
M+P-XYLENE	5.0	25 U	UG/L
O-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(83 - 119 %)	103	%
TOLUENE-d8	(88 - 124 %)	100	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	108	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-008

Date Sampled : 03/30/05 11:00

Order #: 797565

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	0.0500 U	MG/L	04/05/05	12:04	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	03/31/05	15:59	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.200 U	MG/L	04/07/05	13:48	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-008

Date Sampled : 03/30/05 11:00

Order #: 797565

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	0.407	MG/L	04/06/05	1.0
POTASSIUM	6010B	2.00	2.00 U	MG/L	04/06/05	1.0
ZINC	6010B	0.0200	0.187	MG/L	04/06/05	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-008

Date Sampled : 03/30/05 11:00 Order #: 797565 Sample Matrix: WATER
Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B 360 BASELINE
Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-008

Date Sampled : 03/30/05 11:00 Order #: 797565 Sample Matrix: WATER
Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
VINYL ACETATE	10	10 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	103	%
TOLUENE-d8	(88 - 124 %)	100	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	109	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-009

Date Sampled : 03/30/05 12:00

Order #: 797567

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	0.0749	MG/L	04/05/05	12:04	1.0
NITRITE NITROGEN	353.2	0.0100	0.0158	MG/L	03/31/05	15:59	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.246	MG/L	04/07/05	13:48	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-009

Date Sampled : 03/30/05 12:00

Order #: 797567

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	1.98	MG/L	04/06/05	1.0
POTASSIUM	6010B	2.00	2.08	MG/L	04/06/05	1.0
ZINC	6010B	0.0200	0.0891	MG/L	04/06/05	1.0

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-009

Date Sampled : 03/30/05 12:00 Order #: 797567

Sample Matrix: WATER

Date Received: 03/31/05 Submission #: R2525189

Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
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DATE ANALYZED : 04/08/05

ANALYTICAL DILUTION: 1.00

ACETONE	20	20 U	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B 360 BASELINE
Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-009

Date Sampled : 03/30/05 12:00 Order #: 797567 Sample Matrix: WATER
Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
VINYL ACETATE	10	10 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	103	%
TOLUENE-d8	(88 - 124 %)	98	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	112	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-010

Date Sampled : 03/30/05 13:20

Order #: 797569

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.100 U	MG/L	04/05/05	12:04	2.0
NITRITE NITROGEN	353.2	0.0100	0.0158	MG/L	03/31/05	15:59	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.449	MG/L	04/07/05	13:48	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-010

Date Sampled : 03/30/05 13:20

Order #: 797569

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	4.07	MG/L	04/06/05	1.0
POTASSIUM	6010B	2.00	3.08	MG/L	04/06/05	1.0
ZINC	6010B	0.0200	0.0305	MG/L	04/06/05	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-010 SOLUBLE

Date Sampled : 03/30/05 13:20

Order #: 802569

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	0.439	MG/L	04/06/05	1.0
POTASSIUM	6010B	2.00	2.00 U	MG/L	04/06/05	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	04/06/05	1.0

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-010

Date Sampled : 03/30/05 13:20 Order #: 797569 Sample Matrix: WATER
Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B 360 BASELINE
Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-010

Date Sampled : 03/30/05 13:20 Order #: 797569 Sample Matrix: WATER
Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
VINYL ACETATE	10	10 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIESQC LIMITS

BROMOFLUOROBENZENE	(83 - 119 %)	104	%
TOLUENE-d8	(88 - 124 %)	101	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	110	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-011

Date Sampled : 03/30/05 14:00

Order #: 797570

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	0.200 U	MG/L	04/05/05	12:04	4.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	03/31/05	15:59	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.533	MG/L	04/07/05	13:48	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-011

Date Sampled : 03/30/05 14:00

Order #: 797570

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	12.8	MG/L	04/06/05	1.0
POTASSIUM	6010B	2.00	2.49	MG/L	04/06/05	1.0
ZINC	6010B	0.0200	0.0364	MG/L	04/06/05	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-011 SOLUBLE

Date Sampled : 03/30/05 14:00

Order #: 802718

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	200.7	0.100	6.19	MG/L	04/06/05	1.0
POTASSIUM	6010B	2.00	2.00 U	MG/L	04/06/05	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	04/06/05	1.0

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-011

Date Sampled : 03/30/05 14:00 Order #: 797570
Date Received: 03/31/05 Submission #: R2525189

Sample Matrix: WATER
Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B 360 BASELINE
Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : WG-5513-033005-011

Date Sampled : 03/30/05 14:00 Order #: 797570 Sample Matrix: WATER
Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
VINYL ACETATE	10	10 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(83 - 119 %)	102	%
TOLUENE-d8	(88 - 124 %)	98	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	111	%

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : TB-5513-033005-DC

Date Sampled : 03/30/05

Order #: 797572

Sample Matrix: WATER

Date Received: 03/31/05

Submission #: R2525189

Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B 360 BASELINE
Reported: 04/19/05

Conestoga Rovers & Associates

Project Reference: UCAR ANNUAL EVENT 3/05 #5513

Client Sample ID : TB-5513-033005-DC

Date Sampled : 03/30/05 Order #: 797572 Sample Matrix: WATER
Date Received: 03/31/05 Submission #: R2525189 Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
VINYL ACETATE	10	10 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	103	%
TOLUENE-d8	(88 - 124 %)	99	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	110	%

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

WATER

Spiked Order No. : 797557 Conestoga Rovers & Associates

Client ID: WG-5513-032905-002

Test: 8260B 360 BASELINE

Analytical Units: UG/L

Run Number : 114833

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.	
BENZENE	50.0	0	45.0	90	50.0	100	11	30	70 - 130	
CHLOROBENZENE	50.0	0	42.0	84	45.0	90	7	30	70 - 130	
1,1-DICHLOROETHENE	50.0	0	47.0	94	52.0	104	10	30	70 - 130	
TOLUENE	50.0	0	42.0	84	45.0	90	7	30	70 - 130	
TRICHLOROETHENE	50.0	0	38.0	76	41.0	82	8	30	70 - 130	

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B 360 BASELINELABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 804720 ANALYTICAL RUN #: 114833

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	122	50 - 150
ACRYLONITRILE	100	103	50 - 150
BENZENE	20.0	100	70 - 130
BROMOCHLOROMETHANE	20.0	91	70 - 130
BROMODICHLOROMETHANE	20.0	103	70 - 130
BROMOFORM	20.0	83	70 - 130
BROMOMETHANE	20.0	97	50 - 150
2-BUTANONE (MEK)	20.0	110	50 - 150
TRANS-1,4-DICHLORO-2-BUTENE	20.0	112	50 - 150
CARBON DISULFIDE	20.0	108	70 - 130
CARBON TETRACHLORIDE	20.0	94	70 - 130
CHLOROBENZENE	20.0	93	70 - 130
CHLOROETHANE	20.0	114	70 - 130
CHLOROFORM	20.0	107	70 - 130
CHLOROMETHANE	20.0	119	70 - 130
1,2-DIBROMO-3-CHLOROPROPANE	20.0	68	50 - 150
DIBROMOCHLOROMETHANE	20.0	85	70 - 130
1,2-DIBROMOETHANE	20.0	89	70 - 130
DIBROMOMETHANE	20.0	94	70 - 130
1,4-DICHLOROBENZENE	20.0	94	70 - 130
1,2-DICHLOROBENZENE	20.0	87	70 - 130
1,1-DICHLOROETHANE	20.0	110	70 - 130
1,2-DICHLOROETHANE	20.0	107	70 - 130
1,1-DICHLOROETHENE	20.0	105	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	93	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	91	70 - 130
1,2-DICHLOROPROPANE	20.0	107	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	98	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	96	70 - 130
ETHYLBENZENE	20.0	94	70 - 130
2-HEXANONE	20.0	104	70 - 130
IODOMETHANE	20.0	89	50 - 150
METHYLENE CHLORIDE	20.0	100	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	108	70 - 130
STYRENE	20.0	89	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	104	70 - 130
1,1,1,2-TETRACHLOROETHANE	20.0	93	70 - 130
TETRACHLOROETHENE	20.0	86	70 - 130
TOLUENE	20.0	90	70 - 130
1,1,1-TRICHLOROETHANE	20.0	90	70 - 130
1,1,2-TRICHLOROETHANE	20.0	96	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B 360 BASELINE

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 804720 ANALYTICAL RUN # : 114833

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 1.0			
TRICHLOROETHENE	20.0	85	70 - 130
TRICHLOROFLUOROMETHANE	20.0	92	70 - 130
1,2,3-TRICHLOROPROPANE	20.0	84	70 - 130
VINYL ACETATE	20.0	126	50 - 150
VINYL CHLORIDE	20.0	118	70 - 130
M+P-XYLENE	40.0	90	70 - 130
O-XYLENE	20.0	89	70 - 130

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B 360 BASELINELABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 804724 ANALYTICAL RUN #: 114833

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	118	50 - 150
ACRYLONITRILE	100	100	50 - 150
BENZENE	20.0	102	70 - 130
BROMOCHLOROMETHANE	20.0	95	70 - 130
BROMODICHLOROMETHANE	20.0	98	70 - 130
BROMOFORM	20.0	86	70 - 130
BROMOMETHANE	20.0	85	50 - 150
2-BUTANONE (MEK)	20.0	106	50 - 150
TRANS-1,4-DICHLORO-2-BUTENE	20.0	114	50 - 150
CARBON DISULFIDE	20.0	99	70 - 130
CARBON TETRACHLORIDE	20.0	93	70 - 130
CHLOROBENZENE	20.0	96	70 - 130
CHLOROETHANE	20.0	109	70 - 130
CHLOROFORM	20.0	102	70 - 130
CHLOROMETHANE	20.0	112	70 - 130
1,2-DIBROMO-3-CHLOROPROPANE	20.0	75	50 - 150
DIBROMOCHLOROMETHANE	20.0	92	70 - 130
1,2-DIBROMOETHANE	20.0	89	70 - 130
DIBROMOMETHANE	20.0	95	70 - 130
1,4-DICHLOROBENZENE	20.0	95	70 - 130
1,2-DICHLOROBENZENE	20.0	93	70 - 130
1,1-DICHLOROETHANE	20.0	101	70 - 130
1,2-DICHLOROETHANE	20.0	103	70 - 130
1,1-DICHLOROETHENE	20.0	101	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	93	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	94	70 - 130
1,2-DICHLOROPROPANE	20.0	109	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	96	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	94	70 - 130
ETHYLBENZENE	20.0	95	70 - 130
2-HEXANONE	20.0	96	70 - 130
IODOMETHANE	20.0	76	50 - 150
METHYLENE CHLORIDE	20.0	101	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	102	70 - 130
STYRENE	20.0	93	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	107	70 - 130
1,1,1,2-TETRACHLOROETHANE	20.0	99	70 - 130
TETRACHLOROETHENE	20.0	88	70 - 130
TOLUENE	20.0	94	70 - 130
1,1,1-TRICHLOROETHANE	20.0	89	70 - 130
1,1,2-TRICHLOROETHANE	20.0	97	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B 360 BASELINE

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 804724 ANALYTICAL RUN #: 114833

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.0			
TRICHLOROETHENE	20.0	85	70 - 130
TRICHLOROFLUOROMETHANE	20.0	95	70 - 130
1,2,3-TRICHLOROPROPANE	20.0	87	70 - 130
VINYL ACETATE	20.0	111	50 - 150
VINYL CHLORIDE	20.0	110	70 - 130
M+P-XYLENE	40.0	95	70 - 130
O-XYLENE	20.0	91	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :

Order #: 804719

Sample Matrix: WATER

Date Received:

Submission #:

Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L
VINYL ACETATE	10	10 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B 360 BASELINE
Reported: 04/19/05

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 804719	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/07/05			
ANALYTICAL DILUTION: 1.00			
VINYL CHLORIDE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	104	%
TOLUENE-d8	(88 - 124 %)	99	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	108	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 804723	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L
VINYL ACETATE	10	10 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B 360 BASELINE

Reported: 04/19/05

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 804723	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 114833

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/08/05			
ANALYTICAL DILUTION: 1.00			
VINYL CHLORIDE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
BROMOFLUOROBENZENE	(83 - 119 %)	101	%
TOLUENE-d8	(88 - 124 %)	99	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	107	%

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2525189

Client: Conestoga Rovers & Associates

UCAR ANNUAL EVENT 3/05 #5513

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
IRON	0.100 U	1.06	1.00	106	80 - 120	114711	MG/L
POTASSIUM	2.00 U	20.4	20.0	102	80 - 120	114711	MG/L
ZINC	0.0200 U	0.536	0.500	107	80 - 120	114796	MG/L
ZINC	0.0200 U	0.540	0.500	108	80 - 120	114797	MG/L
IRON	0.100 U	1.11	1.00	111	80 - 120	114798	MG/L
POTASSIUM	2.00 U	21.4	20.0	107	80 - 120	114798	MG/L
ZINC	0.0200 U	0.564	0.500	113	80 - 120	114798	MG/L
NITRITE NITROGEN	0.0100 U	0.249	0.250	100	90 - 110	114526	MG/L
NITRITE NITROGEN	0.0100 U	0.239	0.250	96	90 - 110	114599	MG/L
AMMONIA	0.0500 U	0.494	0.500	99	90 - 110	114642	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2525189

Client: Conestoga Rovers & Associates

UCAR ANNUAL EVENT 3/05 #5513

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
TOTAL KJELDAHL NITROGEN	0.200 U	2.04	2.50	82	63 - 117	114672	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 04/19/05
CAS Order # : 797555 - WG-5513-032905-001
Client : Conestoga Rovers & Associates
UCAR ANNUAL EVENT 3/05 #5513
Reported Units: MG/L
Run # : 114642

PRECISION

ACCURACY

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
0.0500 U	0.0500 U	NC	0.417	0.500	83	64 - 122

AMMONIA

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 04/19/05
CAS Order # : 797561 - WG-5513-033005-005
Client : Conestoga Rovers & Associates
UCAR ANNUAL EVENT 3/05 #5513
Reported Units: MG/L
Run # : 114672

PRECISION

ACCURACY

TOTAL KJELDAHL NITROGEN

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
0.445	0.448	1	2.66	2.50	88	47 - 140

22525189

1001 (D) APR 28/97(NF) REV. 0 (F-15)

Cooler Receipt And Preservation Check Form

Project/Client CRA Submission Number 252589

Cooler received on 3/30/05 by: cmk COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: 2°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 3/30/05 1220

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples

Cooler Breakdown: Date: 3/30/05 by: cmk

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃	☒				
2	H ₂ SO ₄	☒				
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

R2525789

CHAIN OF CUSTODY RECORD

 CONESTOGA-ROVERS & ASSOCIATES 2055 Niagara Falls Blvd., Suite 3 Niagara Falls, N.Y. 14304 (716) 297-6150		SHIPPED TO (Laboratory Name): <i>Columbia</i>		REFERENCE NUMBER: <i>5513-02</i>													
SAMPLER'S SIGNATURE: <i>D. Carr</i>		PRINTED NAME: <i>Danielle Carr</i>		U.C.A.R.													
SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS										REMARKS	
						Vac Vol	Total Metals	Nickel	Ammonia	As	Cd	Cu	Pb	Hg	Se	Co	Bo
61	3/31/05	0915	WG-5513-033005-005	Water	6	3	1	1	1								
62	3/31/05	1000	WG-5513-033005-006		7	3	1	1	1								
64	3/31/05	1015	WG-5513-033005-007		7	3	1	1	1								
65	3/31/05	1100	WG-5513-033005-008		6	3	1	1	1								
67	3/31/05	1200	WG-5513-033005-009		6	3	1	1	1								
69	3/31/05	1320	WG-5513-033005-010		7	3	1	1	1								
70	3/31/05	1400	WG-5513-033005-011		6	3	1	1	1								
72	3/31/05		TB-5513-033005-DC	Lab	3	3											802718
TOTAL NUMBER OF CONTAINERS					416	HEALTH/CHEMICAL HAZARDS											
RELINQUISHED BY: ① <i>D. Carr</i>			DATE: 3/31/05 TIME: 1530		RECEIVED BY: ① <i>J. Burt CAS</i>			DATE: 3/31/05 TIME: 1220									
RELINQUISHED BY: ② <i>J. Burt CAS</i>			DATE: 3/31/05 TIME: 1445		RECEIVED BY: ②			DATE:									
RELINQUISHED BY: ③			DATE:		RECEIVED BY: ③			DATE:									
METHOD OF SHIPMENT: <i>Carrier</i>					WAY BILL No.												
White Yellow Pink Goldenrod		-Fully Executed Copy -Receiving Laboratory Copy -Shipper Copy -Sampler Copy		SAMPLE TEAM: <i>D. Carr</i> <i>N. Ryan</i>		RECEIVED FOR LABORATORY BY: <i>[Signature]</i>		DATE: 3-31-05 TIME: 1415		NO N 4016							

Cooler Receipt And Preservation Check Form

Project/Client CRA Submission Number 82525789

Cooler received on 3-31-05 by: KE COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 5° 18°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 3-31-05 @ 15:05

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 4-1-05 by: KE

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃	✓				
2	H ₂ SO ₄	✓				
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments: _____

MW-1

Date 3/29/05
 Project: 5513
 Condition - Good
 Depth = 21.03
 Initial W/L 7.29
 Vol. Calc. $21.03 \cdot 7.29 = 13.74 \times 0.16 = 2.2$
 Method: Teflon Bailor

Purge Record

Time	Vol	pH	Cond	Temp °C	Turb.
1034	2.2	7.91	846	7.49	250

~~Dry @ 2.4 gallons~~

Initial WQ Cloudy, ltr Brown
 Final WQ Cloudy, Dark Brown
 Final WL: Dry

Sample Record

Date 3/31/05
 Crew DJT/PMC
 Method: Teflon Bailor

Vol/Analysis: See page 28 (A)

Sample Time: 0915
 Sample ID: ~~G-10~~ W6-5513-033005-005

W/Q: Clear Colorless

pH	Cond	Temp	Turb
5.72	847	5.27	41

Ref C 4016

Instr. Control
 W/L 604308
 Horiba 604293

(D) Cane

MW-2

Date 3/29/05
 Project 5513
 Condition Good
 Depth 24.64

Initial W/L 23.74 (4")

Vol. Calc. $24.64 - 23.74 = 0.9 \times 0.65 = 0.5$ gallons
 Method Teflon Bailey

Purge Record

Time	Vol.	pH	Cond.	Temp °C	Turb
1332	0.5	8.50	244	10.18	7999

~~Dry @ 0.5 gallons~~

Initial W/L: Blackish grey, cloudy

Final W/L DR4

Final W/L: 24.40
 3/30/05 W/L 24.31
 well Dry

Sample Record

Date
 Crew
 Method

well DRY
 NO SAMPLE

Vol. Analysis: See page

Sample Time

ID WG-5513-

W/Q

pH

Cond

Temp °C

Turb

CBC

Inst. Controls
 W/L = 604305
 Hori. = 604293

Drum

MW-3

Date 3/30/05
 Project 5513
 Condition Good
 Depth 15.28
 Initial W/L = 2.71 (2")
 Vol Calc 15.28 - 2.71 = 12.57 x 0.16 = 2.0 gallons
 Method: Peristaltic Pump

Purge	Time	Vol	pH	Cond.	Temp °C	Turb.
	1249	2.0	7.80	472	7.88	30
	1255	4.0	7.66	479	8.76	6
	1258	6.0	7.48	493	8.62	92

~~Dry @ 6.5 gallons~~

Initial W/Q Clear Colorless

Final W/Q SAME

Final W/L 14.00

Sample Record

37

Date 3/30/05
 Crew DJT / DMC
 Method = Testlan Boilers

Vol / Analysis = See page 28 (A)

Sample Time: 1320
 Sample ID: W6-5513-033005-010
 Dissolved Metals

W6: SAME

pH	Cond	Temp	Turb.
7.47	502	8.72	110

CFC 4016

Inst. Control #
 W/L C01308
 Horiba CA4293

D. Curran

5

BW1

MS/MSD 39

Date 3/29/05

Project 5513

Condition: Good

Depth 4" 0-20.1 / 3" 20.9-35.9 ^{sound} 28.73

Initial WL = 12.62

Vol. Calc $20.4 \times 12.62 = 8.28 \times 0.65 = 5.4 + 5.6 = 11.0$

Method: Whale Pump

Purge Record

Time	Vol.	pH	Cond	Temp °C	Turb
7:46	11.0	7.28	2250	8.37	14
9:52	22.0	7.13	2270	9.37	19
1000	33.0	7.02	2260	9.49	22

Initial w/o Cloudy, Lt. Brown

Final w/o Clear

Final w/L 13.10

Purge Record

Date: 3/29/05

Draw: DST/Dme

Method: Reflum Bailer

Vol. Analysis

See pg 28(A)

Sample Time: 1000

20: WB-5513-032905-002

MS/MSD

W/O: SAME

pH	Cond	Temp	Turb
7.07	2270	9.28	19

Ref C: 4017

Inst. Control

W/L 004308

H/L 004293

OCarr

BW-2

Date 3/29/85
 Project 5513
 Cond. Good
 Depth 24.7' 4" 0-21.1 3" 21.1-37.1
 Initial W/L 7.72 (4") 37.1-21.1=16X37.1
 Vol. Calc. 21.1-7.72=13.38x.65=8.7+5.7=14.4
 Method. Whole Pump 14.6

Purge	Recon	HT	WT	Turb
Time	Vol.	pH	Cond.	Temp °C
12:38	14.6	6.96	2700	10.38
12:48	29.2	6.75	2600	10.07
12:59	43.8	6.97	2610	7.63

Initial WQ: Cloudy Red-Brown

Recon WQ: SAME

Final W/L: SAME

Sample Record

Date: 3/29/85
 Time: 10:59 AM
 Method: Teston Baster

Vol. Analysis: See page 28(A)

Sample Time: 1500 1320

ID: W6-5513-032905-004

Dissolved Metals at HNU3

W/Q: SAME

HT	Cond	Temp °C	Turb
14.4	2240	8.58	480

W/C H0197

Inst. Control #
 W/L C04308
 Horiba C04293

D. Carr

BW-3

Date 3/30/05
 Project 5513
 Corel Good
 Depth 23.50 4" 0-9.76 / 3" 3.36-23.50
 Initial W/L 3.36
 Vol. Calc $23.50 - 3.36 = 20.14 \times 0.65 = 13.19$
 Method: Whole pump

Purge Time	Record Vol.	pH	Cond	Temp °C	Turb
1038	9.2	7.08	703	7.48	110
1043	18.4	6.96	703	7.50	18
1046	27.6	6.87	712	7.52	18

Initial W/D Clear, colorless

Final W/D Same

Final W/L 3.55

Sample Record

Date 3/30/05
 Project D5T
 Method Dedicated Teflon Boiler
 Analysis = See page 28(A)

Sample Time: 1100
 ID: W6-5513-033005-008

Clear, colorless

Cond	Temp °C	Turb
297.0	7.49	9

4016

Inst Control #15
 W/L C04308
 Horiba C04293

D. Chinn

44

BW-4

Date 3/30/05
 Project 5513
 Cond. Good
 Depth 4" 0-13.9 / 3" 13.9-27.5
 Initial w/L = 4.75
 Vol. Calc. $13.9 - 4.75 = 9.15 \times 0.65 = 5.9 + 4.6 = 10.5 \text{ galls.}$
 Method: Whole Pump

Purge Record

Time	Vol	pH	Cond	Temp °C	Turb
0933	10.5	6.66	1470	8.98	150
0937	20.1	6.79	1470	9.04	51
0940	30.6	6.88	1440	9.14	65
0945	42.0	6.91	1420	9.16	11

Initial WQ: Clear Colorless

Final WQ: Slightly Cloudy, Lt. Brown

Final w/L: 4.92

Sample Record

Dup

45

Date 3/30/05
 By DJT/DMC
 Method: Teflon Bailers

Vol. Analysis: See page 28 (A) x 2
 + Diss Metals x 2
 Sample Time: 1000

ID: WG-5513-033005-006

WG-5513-033005-007 (1015)

WQ: Slightly cloudy light Brown

pH	Cond	Temp	Turb
8.96	1420	8.26	140

WQ C 4016

Inst. Control #
 w/L = CO 4308
 Horiba = CB 4293

PC

BW-5

Date 3/30/05
 Project 5513
 Cond. Good $0.37 = 5.5$
 Depth 28.73 / 4" - 13.3 / 3" 13.3 - 28.2
 Initial W/L 0.55
 Vol. Calc $28.73 - 0.55 = 28.18 \times 0.65 = 18.3 + 5.5 = 23.8$
 Method: Whole Pump 10.4

Purge Record

Time	Vol	pH	Cond	Temp °C	Turb
1126	10.4	7.25	1110	8.02	53
1129	20.8	7.11	1110	8.00	5
1134	30.2	7.05	1110	8.06	6

Initial W/Q Clear Lt Brown tint.

Final W/Q Clear, colorless

Final W/L Same as 0.57

Vol. Calc $13.3 - 0.55 = 12.75 \times 0.65 = 8.3$
 $28.73 - 13.3 = 15.4 \times 0.37 = 5.7$
 10.4

Sample Record

Date 3/30/05
 Project 5513
 Cond. Good
 Depth 28.73 / 4" - 13.3 / 3" 13.3 - 28.2
 Initial W/L 0.55
 Vol. Calc $28.73 - 0.55 = 28.18 \times 0.65 = 18.3 + 5.5 = 23.8$
 Method: Whole Pump 10.4
 Sample Time: WG-5513-033005-009
 ID: 1200

10.4 → AME

113 1080 8.11 12

10.4

Inst. Control #s
 W/L = C04308
 Hauler = C04295

P. Carr

48

BW-6

Date 3/30/05

Project 5513

Cond Good

Depth 26.6/6" 0-6.5/4" 6.5-21.2/3" 21.2-30"

Initial W/L 13.65

Vol. Calc. $26.6 - 13.65 = 12.95 \times 6.5 = 84.275$ 10.6 gallons

Method: Whale Pump

Purge Record

Time	Vol	pH	Cond	Temp °C	Turb
1345	10.6	7.02	1710	10.32	150
1352	21.2	7.09	1800	10.22	160
1359	31.8	6.76	1790	10.12	130
1401	42.4	6.97	1800	10.19	200
1403	53.0	6.65	1800	10.40	140

Initial W/Q Cloudy Brown

Final W/Q Clear, Colorless

Final W/L 22.55'

Vol. Calc. $21.2 - 13.65 = 7.55 \times 6.5 = 49.075$ 10.6

Sample Record

49

Date 3/30/05

DHC, DIT

Method: Tethered Bailer

Analyses: See page 28(A)

Time: 1400

ID: WG-5513-033005-011

Clear Colorless

Time	Temp	Turb
1400	9.97	160

Stage Control
 W/L C04308
 H/L C04293

D. Can

GW 8B

Date 3/29/05
 Project 5513
 Cond Good
 Depth 29.70'
 Initial W/L 7.65' 3" (0.37)
 Vol. Calc. $29.70 - 7.65 = 22.05 \times 0.37 = 8.1$ gallons
 Method: Whale Pump

Purge	Record				
Time	Vol.	pH	Cond	Temp	Turb
0843	8.1	6.65	1710	8.6	210
0848	16.2	6.99	1712	9.2	65
0857	24.3	7.17	1720	9.0	27

Initial W/L: Cloudy, milky color

Final W/L Clear, colorless

Final W/L 18.06

Sample Record

Date 3/29/05
 Name DJT/DMC
 Method: Teflon Bailers

Vol./Analysis = Page P. 28 (A)

Sample Time: 1200 0900
 ID: WG - 5513 - 032905 - 001

5 AM E

Temp 8.57
 Turb 13

Control 45
 CO 4308
 CO 4293

D. Carr

52

GW-9B

Date 3/29/05

Project 5513

Cond Good

Depth 32.00 (31)(37)

Initial W/L 10.12

Vol. Calc. $32 - 10.12 = 21.88 \times 0.37 = 8.1$ gallons

Method Whole pump

Purge Record

Time	Vol.	pH	Cond	Tap °C	Turb
1135	5.1	6.93	2740	10.97	7
1138	16.2	6.84	2720	10.42	6
1143	31.3	6.97	2760	10.42	7

Initial W/O: clear, colorless

Final W/O SAME

Final W/L 18.81

Sample Record

Date 3/29/05

Project 5513/10th

Method Teflon Bailor

Analysis: See page 28 (A)

Sample Time: 1200

ID: WL-5513-032905-053

SAME

Turb

31

Control

Meter CO4208

CO4293

Clan

Daily Log

Date 3/29/05

Project 5513-02

Weather: Windiest 34°F, mild

0800: D. Carr + D. Tyra on-site to
get keys from Boba Bucci

6
1330: Sampled 4 wells, dried out 2, 1 round of WH
off site BW1, 2 / MW1, 2, GWAB

3/30/05

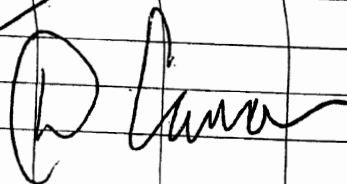
0810: D. Carr + D. Tyra on-site

Calibrate meter

Sample MW1

Purge & Sample BW 3, 4, 5

6 MW 3



Date: 3/29-3/31/05

Reference No. 5513-02

GROUNDWATER SAMPLING EQUIPMENT AND SUPPLY CHECKLIST

EQUIPMENT:

- ☒ Well pump/power cable (spare)
- ☒ Generator
- ☒ Bailer(s)
- ☒ Tubing
- ☒ Container for purge water
- ☒ Sample Filtration Equipment

SUPPLIES

- ☒ Gasoline can/gas
- ☒ Polypropylene rope
- ☒ Aluminum foil
- ☒ Paper towels
- ☒ pH buffer solution(s)
- ☒ Conductivity standard solution(s)
- ☒ Decontamination Fluids
 - ☐ 2 - Propanol
 - ☐ Deionized water
 - ☐ Hexane (pesticide grade)
 - ☐ Methanol (pesticide grade)
 - ☐ Acid Rinse for metals
 - ☒ Other Alconox
- ☒ Sample jars (extra)
- ☒ Sample jar labels (CRA) materials
- ☒ Cooler(s)/ice packs/packing materials
- ☒ Paper cups
- ☒ Trash bags
- ☒ Bailer brush
- ☒ Sample preservatives
- ☒ Disposable droppers
- ☒ Plastic spray bottles
- ☒ Plastic basin or pan
- ☒ Sample filter (On line or External Filter)
- ☒ Polyethylene sheeting

MISCELLANEOUS:

- ☒ Well Cap Keys
- ☒ Bolt cutters
- ☒ Camera/film
- ☒ Knife
- ☒ Spare batteries for instruments
- ☐ Lock Deicer (winter)

INSTRUMENTS:

- ☒ Water level indicator
- ☒ Thermometer *
- ☒ pH meter *
- ☒ Conductivity probe *
- ☐ Turbidity meter
- ☐ HNu/OVA/Microtip
- ☐ Air Monitoring Equipment
- ☒ Other Hydribe
- * - or combination pH/cond/temp meter

PERSONAL PROTECTIVE EQUIPMENT:

- ☒ Tyveks (assorted sizes and types)
- ☒ Latex gloves
- ☒ Hard hats/liner(s)
- ☒ Field overboots
- ☒ Work gloves (cotton and chemical resistant)
- ☒ Safety glasses/or side shields on
- ☒ OSHA-approved prescription lenses
- ☒ First Aid Kit
- ☒ Respirators
- ☒ Check Health and Safety Plan

DOCUMENTATION

- ☒ Chain of Custody Forms
- ☒ Well logs
- ☒ Notebook/Field book
- ☒ Photolog
- ☒ Site pass/badge
- ☒ Federal Express manifests
- ☒ Previous well logs/previous historical well data
- ☒ Site map
- ☒ Blank well data forms

Completed by: [Signature]

Date: 3/30/05

CRA

Date

3/29/05 - 3/30/05

Reference No.

5513-02

GROUNDWATER SAMPLING • COMPLETION CHECKLIST

PRIOR PLANNING AND COORDINATION:

- ☒ Confirm well numbers, location and accessibility.
- ☒ Review of project documents, sampling Quality Assurance/Quality Control (QA/QC) and site-specific sampling requirements.
- ☒ Historical well data; depth, pH, performance and disposition of purge water.
- ☒ Site access notification and coordination.
- ☒ Coordination with laboratory.
- ☒ Procurement, inventory and inspection of all equipment and supplies.
- ☒ Prior equipment preparation, calibration or maintenance.

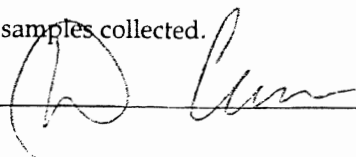
FIELD PROCEDURE:

- ☒ Instruments calibrated daily.
- ☒ Sampling equipment decontaminated in accordance with the QAPP.
- ☒ Initial well measurements logged.
- ☒ Well volume calculated and specified volumes removed.
- ☒ Purged water collected if required.
- ☒ Specified samples, and QA/QC samples taken per Quality Assurance Project Plan (QAPP).
- ☒ Samples properly labeled, preserved and packed.
- ☒ Well was secured after completion of sampling.
- ☒ Sample date times, locations and sample numbers have all been recorded in applicable log(s).
- ☒ Samples have been properly stored if not shipped/delivered to lab same day.
- ☒ Samples were shipped with complete and accurate Chain of Custody Record.

FOLLOW-UP ACTIVITIES:

- ☒ All equipment has been maintained and returned.
- ☒ Sampling information reduced and required sample keys and field data distributed.
- ☒ Chain of Custody Records filed.
- ☒ Expendable stock supplies replaced.
- ☒ CRA and client-controlled items returned.
- ☒ Arrange disposal/treatment for purged water and decontamination fluids.
- ☒ Confirm all samples collected.

Completed by:



Date:

3/30/05

CRA

Date:

3/29 - 3/30/05

Reference No.

5513-02

WATER LEVEL MEASUREMENT EQUIPMENT AND SUPPLY CHECKLIST

INSTRUMENTS:

- ☐ Water level indicator
- ☐ Steel Tape
- ☐ Oil/Water Interface Probe
- ☐ Air Monitoring Equipment

SUPPLIES

- ☐ Foil
- ☐ Tyveks (assorted sizes and types)
- ☐ Paper towels
- ☐ Decontamination Fluids
 - ☐ 2 - Propanol
 - ☐ Deionized water
 - ☐ Hexane (pesticide grade)
 - ☐ Methanol (pesticide grade)
 - ☐ Other
- ☐ Trash bags
- ☐ Plastic spray bottles

PERSONAL PROTECTIVE EQUIPMENT:

- ☐ Latex gloves
- ☐ Hard hats/liner(s)
- ☐ Field overboots
- ☐ Work gloves (cotton and chemical resistant)
- ☐ Safety glasses/or side shields on OSHA-approved prescription lenses
- ☐ First Aid Kit
- ☐ Respirators
- ☐ Check Health and Safety Plan

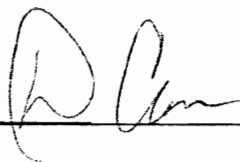
DOCUMENTATION

- ☐ Well logs
- ☐ Notebook/Field book
- ☐ Photolog
- ☐ Site pass/badge
- ☐ Previous well logs/previous historical well data
- ☐ Site map
- ☐ Blank well data forms

MISCELLANEOUS:

- ☐ Well Cap Keys
- ☐ Bolt cutters
- ☐ Camera/film
- ☐ Knife
- ☐ Spare batteries for instruments
- ☐ Lock deicer (winter)
- ☐ Pen/pencil/indelible marking pen
- ☐ Tool box
- ☐ Spare locks/keys
- ☐ On Site Transportation (all Terrain Vehicle/Snowmobiles)

Completed by:



Date:

3/30/05

CRA

Date: 3/28-3/30/2005

Reference No. 5513-02

WATER LEVEL MEASUREMENT • COMPLETION CHECKLIST

PRIOR PLANNING AND COORDINATION:

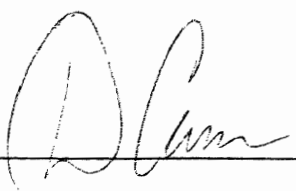
- ☒ Confirm well numbers, location and accessibility.
- ☒ Review of project documents and site-specific Health and Safety Plan.
- ☒ Historical well data; depth, water level measurements.
- ☒ Site access notification and coordination.
- ☒ Procurement, inventory and inspection of all equipment and supplies.
- ☒ Prior equipment preparation, calibration or maintenance.

FIELD PROCEDURE:

- ☒ Instruments calibrated daily.
- ☒ Equipment decontaminated in accordance with the QAPP.
- ☒ Initial well measurements logged.
- ☒ Well was secured after measurements.
- ☒ Measurement date times, locations and results have all been recorded on applicable log(s) or in Field Book.

FOLLOW-UP ACTIVITIES:

- ☒ Questionable measurements field verified.
- ☒ All equipment has been maintained and returned.
- ☒ Water elevation data is reduced and checked.
- ☒ Expendable stock supplies replaced.
- ☒ Confirm all measurements taken.
- ☒ Well keys returned.
- ☒ Field data distributed.

Completed by: 

Date: 3/30/05

CRA

FIELD DATA RECORD FORM
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

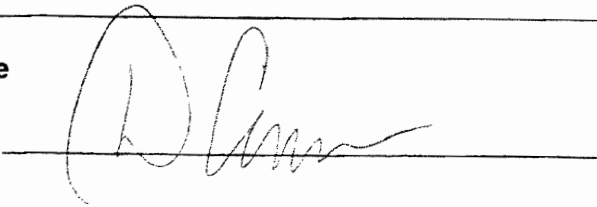
(QSF-242D)

Control No.: 004293 Project No.: 5513-02
Date: 3/24 - 3/30/2005 Project Name: UCAR
User: D. Carr Location: Diagona Falls

FIELD PROCEDURE BEFORE USE:**Check when completed**

- Fill calibration beaker to line with the standard autocalibration solution.
- If using the DO sensor install sensor now.
- Fit the probe over the beaker, turn power on.
- Press the MODE key to put the unit into the MAINT mode. ☒
- Use the MODE key to put the lower cursor to AUTO.
- Press the ENT key; the readout will show CAL.
- Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.
- When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode. ☒
- The instrument is ready for use.

Note: Conductivity measured in mS/cm not μ S/cm as commonly measured by pocket meters.
Multiply value by 1,000 to convert to μ S/cm.

Filing: Field FileSignature: 

FIELD DATA RECORD FORM
METER, WATER LEVEL

(QSF-251D)

Control No.: 04308
Date: 3/29 - 3/30/05
User: D. Cava

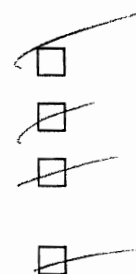
Project No.: 5513-02
Project Name: UCAR
Location: Niagara Falls

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

Check when completed

- Check for broken or missing parts.
- Check push button for operation of buzzer.
- Check operation of signal light.
- Try probe in water to see if unit operates, check rotary sensitivity switch if so equipped.
- Check cable for cuts resulting in bare wire.

**Filing: Field File**Signature: 