



UCAR CARBON COMPANY INC.

P.O. Box 887, Niagara Falls, New York 14302-0887

November 21, 2000

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NOV 24 2000

NYSDEC - REG. 9
FOIL
REL UNREL

Ms. Mary F. McIntosh
Engineering Geologist II
New York State Department
of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

SUBJECT: Semi-Annual Monitoring Event
UCAR Republic SWMF #32N03

Dear Ms. McIntosh,

The semi-annual monitoring event for the above-referenced site was conducted September 25 to 27, 2000. 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 at the time of sampling are presented in Table 2.

The analytical laboratory report for this sampling event is enclosed and the data are summarized in Table 3. The data obtained from this monitoring event are consistent with previous data.

Should you have any questions or require additional information, please do not hesitate to contact me.

Very truly yours,

Robert Bucci
Site Manager

R. Bucci
nm
enc.



UCAR CARBON COMPANY INC.

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NYSDEC - REG. 9

REL. ~~UNRE~~ Box 887, Niagara Falls, New York 14302-0887

November 21, 2000

Mr. Mark Hans, PE
Regional Solid Materials Engineer
NYS Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

SUBJECT: UCAR Republic Landfill #32NO3

Dear Mr. Hans,

Please find enclosed a copy of the sampling results that were sent to Mary E. McIntosh, Engineering Geologist II of the New York State Department of Environmental Conservation Region 9 Office.

If you have any questions please feel free to call me at 278-3486.

Very truly yours,

Robert Bucci
Site Manager

R. Bucci

nm

enc.

cc: Mr. Jim Devald, Dir. of Environmental Health
Niagara County Health Department
Environmental Division
5467 Upper Mountain Road.
Lockport, New York 14094-1899

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
UCAR REPUBLIC SWMF #32N03

Well No.	Purge Date	Sample Collection Date	One Well Volume (Gallons)	No. of Volumes Purged	Volume Purged (Gallons)	Analytical Parameters			
						Turbidity (NTUs)	VOCs	Total Metals	General Parameters
BW-1	09/25/00	09/25/00	8.4	3	25.3	8	x	x	x
GW-9B	09/25/00	09/25/00	2.6	3	7.8	3		x	x
GW-8B	09/25/00	09/25/00	3.2	3	9.5	9.5	x	x	x
BW-5	09/25/00	09/25/00	5.8	3	18	10		x	x
MW-2	09/25/00	09/25/00	1.2	<1	0.5	48		x	x
MW-3	09/25/00	09/25/00	0.6	3	1.8	17		x	x
BW-2	09/25/00	09/25/00	8.6	3	26	5		x	x
BW-4	09/25/00	09/25/00	5.6	3	16.7	10	x	x	x
BW-3	09/25/00	09/25/00	3.0	3	9.1	8	x	x	x
BW-6	09/25/00	09/25/00	8.8	3	15	15	x	x	x
MW-1	09/25/00	09/27/00	6.6	<1	2.5	45		x	x

Notes:

NTUs Nephelometric Turbidity Units.

VOCs Volatile Organic Compounds.

TABLE 2
SUMMARY OF WATER LEVEL ELEVATIONS
UCAR REPUBLIC SWMU #32N03
SEPTEMBER 2000

<i>Well No.</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	8.23	603.77
MW-2	608.17	22.90	585.27
MW-3	601.89	10.70	591.19
BW-1	610.72	17.70	593.02
BW-2	608.43	13.43	595.00
BW-3	604.72	14.40	590.32
BW-4	607.08	12.25	594.83
BW-5	603.33	12.40	590.93
BW-6	607.04	12.50	594.54
GW-8B	603.90	29.50	574.40
GW-9B	603.40	13.57	589.83

Notes:

* All water levels measured September 25, 2000.
 AMSL Above Mean Sea Level.
 BTOC Below Top of Casing.
 TOC Total Organic Carbon.

TABLE 3
ANALYTICAL RESULTS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
UCAR REPUBLIC SWMF #32NO3

<i>Location ID:</i> <i>Collection Date:</i>		<i>BW-1</i> <i>09/25/00</i>	<i>BW-2</i> <i>09/25/00</i>	<i>BW-3</i> <i>09/25/00</i>	<i>BW-3</i> <i>09/25/00</i> <i>(Field duplicate)</i>	<i>BW-4</i> <i>09/25/00</i>	<i>BW-5</i> <i>09/25/00</i>
<i>Volatiles</i>	<i>Units</i>						
Acetone	µg/L	20 U	-	20 U	20 U	40 U	-
Benzene	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
Bromodichloromethane	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
Bromoform	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
Bromomethane	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
2-Butanone	µg/L	10 U	-	10 U	10 U	20 U	-
Carbon disulfide	µg/L	10 U	-	10 U	10 U	20 U	-
Carbon tetrachloride	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
Chlorobenzene	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
Chloroethane	µg/L	6.4	-	5.0 U	5.0 U	10 U	-
Chloroform	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
Chloromethane	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
Dibromochloromethane	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
1,1-Dichloroethane	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
1,2-Dichloroethane	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
1,1-Dichloroethene	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
cis-1,2-Dichloroethene	µg/L	5.0 U	-	5.0 U	5.0 U	250	-
trans-1,2-Dichloroethene	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
1,2-Dichloropropane	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
cis-1,3-Dichloropropene	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
trans-1,3-Dichloropropene	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
Ethylbenzene	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
2-Hexanone	µg/L	10 U	-	10 U	10 U	20 U	-
Methylene chloride	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
4-Methyl-2-pentanone	µg/L	10 U	-	10 U	10 U	20 U	-
Styrene	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-

TABLE 3
ANALYTICAL RESULTS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
UCAR REPUBLIC SWMF #32NO3

<i>Location ID:</i>		<i>BW-1</i>	<i>BW-2</i>	<i>BW-3</i>	<i>BW-3</i>	<i>BW-4</i>	<i>BW-5</i>
<i>Collection Date:</i>		<i>09/25/00</i>	<i>09/25/00</i>	<i>09/25/00</i>	<i>09/25/00</i>	<i>09/25/00</i>	<i>09/25/00</i>
					<i>(Field duplicate)</i>		
<i>Volatiles</i>		<i>Units</i>					
Tetrachloroethene	µg/L	5.0 U	-	5.0 U	5.0 U	360	-
Toluene	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
1,1,1-Trichloroethane	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
1,1,2-Trichloroethane	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
Trichloroethene	µg/L	5.0 U	-	5.0 U	5.0 U	250	-
Vinyl chloride	µg/L	5.0 U	-	5.0 U	5.0 U	90	-
Total Xylenes	µg/L	5.0 U	-	5.0 U	5.0 U	10 U	-
<i>Total Metals</i>							
Iron	mg/L	1.20	1.78	1.00	1.01	3.05	0.753
Potassium	mg/L	4.06	6.12	3.81	4.02	19.1	2.82
Zinc	mg/L	0.476	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0932
<i>General Chemistry</i>							
Ammonia	mg/L	0.553	0.612	0.628	0.617	4.21	0.151
Nitrite Nitrogen	mg/L	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Total Kjeldahl Nitrogen (TKN)	mg/L	1.06	1.32	0.427	0.791	0.977	0.355

TABLE 3
ANALYTICAL RESULTS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
UCAR REPUBLIC SWMF #32NO3

<i>Location ID:</i>		<i>MW-1</i>	<i>MW-2</i>	<i>MW-3</i>	<i>BW-6</i>	<i>GW-8B</i>	<i>GW-9B</i>
<i>Collection Date:</i>		<i>09/27/00</i>	<i>09/25/00</i>	<i>09/25/00</i>	<i>09/25/00</i>	<i>09/25/00</i>	<i>09/25/00</i>
<i>Volatiles</i>	<i>Units</i>						
Acetone	µg/L	-	-	-	20 U	37	-
Benzene	µg/L	-	-	-	5.0 U	5.0 U	-
Bromodichloromethane	µg/L	-	-	-	5.0 U	5.0 U	-
Bromoform	µg/L	-	-	-	5.0 U	5.0 U	-
Bromomethane	µg/L	-	-	-	5.0 U	5.0 U	-
2-Butanone	µg/L	-	-	-	10 U	10 U	-
Carbon disulfide	µg/L	-	-	-	10 U	10 U	-
Carbon tetrachloride	µg/L	-	-	-	5.0 U	5.0 U	-
Chlorobenzene	µg/L	-	-	-	5.0 U	5.0 U	-
Chloroethane	µg/L	-	-	-	5.0 U	5.0 U	-
Chloroform	µg/L	-	-	-	5.0 U	5.0 U	-
Chloromethane	µg/L	-	-	-	5.0 U	5.0 U	-
Dibromochloromethane	µg/L	-	-	-	5.0 U	5.0 U	-
1,1-Dichloroethane	µg/L	-	-	-	5.0 U	5.0 U	-
1,2-Dichloroethane	µg/L	-	-	-	5.0 U	5.0 U	-
1,1-Dichloroethene	µg/L	-	-	-	5.0 U	5.0 U	-
cis-1,2-Dichloroethene	µg/L	-	-	-	5.0 U	5.9	-
trans-1,2-Dichloroethene	µg/L	-	-	-	5.0 U	5.0 U	-
1,2-Dichloropropane	µg/L	-	-	-	5.0 U	5.0 U	-
cis-1,3-Dichloropropene	µg/L	-	-	-	5.0 U	5.0 U	-
trans-1,3-Dichloropropene	µg/L	-	-	-	5.0 U	5.0 U	-
Ethylbenzene	µg/L	-	-	-	5.0 U	5.0 U	-
2-Hexanone	µg/L	-	-	-	10 U	10 U	-
Methylene chloride	µg/L	-	-	-	5.0 U	5.0 U	-
4-Methyl-2-pentanone	µg/L	-	-	-	10 U	10 U	-
Styrene	µg/L	-	-	-	5.0 U	5.0 U	-
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	5.0 U	5.0 U	-

TABLE 3
ANALYTICAL RESULTS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
UCAR REPUBLIC SWMF #32NO3

<i>Location ID:</i>		<i>MW-1</i>	<i>MW-2</i>	<i>MW-3</i>	<i>BW-6</i>	<i>GW-8B</i>	<i>GW-9B</i>
<i>Collection Date:</i>		<i>09/27/00</i>	<i>09/25/00</i>	<i>09/25/00</i>	<i>09/25/00</i>	<i>09/25/00</i>	<i>09/25/00</i>
<i>Volatiles</i>							
	<i>Units</i>						
Tetrachloroethene	µg/L	-	-	-	5.0 U	5.0 U	-
Toluene	µg/L	-	-	-	5.0 U	5.0 U	-
1,1,1-Trichloroethane	µg/L	-	-	-	5.0 U	5.0 U	-
1,1,2-Trichloroethane	µg/L	-	-	-	5.0 U	5.0 U	-
Trichloroethene	µg/L	-	-	-	5.0 U	5.1	-
Vinyl chloride	µg/L	-	-	-	5.0 U	5.0 U	-
Total Xylenes	µg/L	-	-	-	5.0 U	5.0 U	-
<i>Total Metals</i>							
Iron	mg/L	5.12	21.2	1.48	2.77	0.100 U	0.100 U
Potassium	mg/L	36.5	3.24	2.00 U	2.00 U	6.52	5.41
Zinc	mg/L	0.0309	0.760	0.0200 U	0.0200 U	0.208	0.0200 U
<i>General Chemistry</i>							
Ammonia	mg/L	8.57	1.21	0.0500 U	0.0693	0.0500 U	0.518
Nitrite Nitrogen	mg/L	0.0193	0.0183	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Total Kjeldahl Nitrogen (TKN)	mg/L	10.4	2.00	0.405	4.30	0.200 U	0.950

Notes:

-- Not applicable.

U Non-detect at associated value



Columbia
Analytical
Services^{Inc.}

A FULL SERVICE ENVIRONMENTAL LABORATORY

rec'd 10/1/00

October 27, 2000

Ms. Susan Scrocchi
Conestoga Rovers & Associates
2055 Niagara Falls Blvd.
Suite Three
Niagara Falls, NY 14304

PROJECT:UCAR
Submission #:R2003988

Dear Ms. Scrocchi

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Mark Wilson
Client Service Manager

Enc.



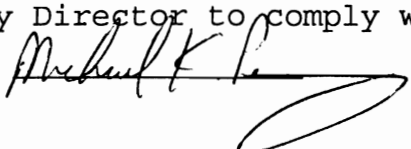
1 Mustard ST.
Suite 250
Rochester, NY 14609

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Conestoga Rovers & Associates
Project Reference: UCAR
Lab Submission # : R2003988
Reported : 10/27/00

Report Contains a total of 69 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. 



CASE NARRATIVE

This report contains analytical results for the following samples:

Submission #: R2003988

<u>Lab ID</u>	<u>Client ID</u>
411659	GW8B
411660	BW-1
411661	MW BW-6
411662	BW-3
411663	BW-4
411664	DUP
411666	GW9B
411667	BW-2
411668	MW-3
411669	BW-5
411670	MW-2
411671	TRIP BLANK
412422	MW-1

All samples were received in good condition.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.



Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- 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.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
 - Also used to qualify Organics QC data outside limits.
- D - Spike diluted out.
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester:	10145	NJ ID # in Rochester:	73004
CT ID # in Rochester:	PH0556	RI ID # in Rochester:	158
MA ID # in Rochester:	M-NY032	NH ID # in Rochester:	294198-A
OH EPA # in Rochester:	VAP	AIHA # in Rochester:	7889

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : GW8B

Date Sampled : 09/25/00 09:01	Order #: 411659	Sample Matrix: WATER
Date Received: 09/26/00	Submission #: R2003988	

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0500 U	MG/L	10/03/00	14:01	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/27/00	08:57	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.200 U	MG/L	10/13/00	15:06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : GW8B

Date Sampled : 09/25/00 09:01	Order #: 411659	Sample Matrix: WATER
Date Received: 09/26/00	Submission #: R2003988	

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	0.100 U	MG/L	10/09/00	1.0
POTASSIUM	6010B	2.00	6.52	MG/L	10/09/00	1.0
ZINC	6010B	0.0200	0.208	MG/L	10/09/00	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : GW8B

Date Sampled : 09/25/00 09:01 Order #: 411659 Sample Matrix: WATER
Date Received: 09/26/00 Submission #: R2003988 Analytical Run 56797

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/04/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	37	UG/L
BENZENE	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
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
DIBROMOCHLOROMETHANE	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
CIS-1,2-DICHLOROETHENE	5.0	5.9	UG/L
TRANS-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
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
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	5.1	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
1-BROMOFLUOROBENZENE	(86 - 115 %)	92	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : BW-1

Date Sampled : 09/25/00 10:55 Order #: 411660 Sample Matrix: WATER
Date Received: 09/26/00 Submission #: R2003988

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	0.553	MG/L	10/03/00	14:01	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/27/00	08:57	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	1.06	MG/L	10/13/00	15:06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : BW-1

Date Sampled : 09/25/00 10:55
Date Received: 09/26/00

Order #: 411660
Submission #: R2003988

Sample Matrix: WATER

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	1.20	MG/L	10/09/00	1.0
POTASSIUM	6010B	2.00	4.06	MG/L	10/09/00	1.0
ZINC	6010B	0.0200	0.476	MG/L	10/09/00	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : BW-1

Date Sampled : 09/25/00 10:55 Order #: 411660 Sample Matrix: WATER
Date Received: 09/26/00 Submission #: R2003988 Analytical Run 56797

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/04/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	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
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	6.4	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	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
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-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
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
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
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates

Project Reference: UCAR

Client Sample ID : BW-6 ⁴⁷⁵
MW-6

Date Sampled : 09/25/00 11:51

Order #: 411661

Sample Matrix: WATER

Date Received: 09/26/00

Submission #: R2003988

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	0.0693	MG/L	10/03/00	14:01	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/27/00	08:57	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	4.30	MG/L	10/13/00	15:06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates

Project Reference: UCAR

Client Sample ID : ~~BW-6~~ *MW-6*

Date Sampled : 09/25/00 11:51

Order #: 411661

Sample Matrix: WATER

Date Received: 09/26/00

Submission #: R2003988

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	2.77	MG/L	10/09/00	1.0
POTASSIUM	6010B	2.00	2.00 U	MG/L	10/09/00	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	10/09/00	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/27/00

Conestoga Rovers & Associates

Project Reference: UCAR

Client Sample ID : ~~BW-6~~ *mw-6*

Date Sampled : 09/25/00 11:51 Order #: 411661 Sample Matrix: WATER
Date Received: 09/26/00 Submission #: R2003988 Analytical Run 56797

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/04/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	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
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
DIBROMOCHLOROMETHANE	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
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-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
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
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
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

1-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : BW-3

Date Sampled : 09/25/00 14:00	Order #: 411662	Sample Matrix: WATER
Date Received: 09/26/00	Submission #: R2003988	

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.628	MG/L	10/03/00	14:01	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/27/00	08:57	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.427	MG/L	10/13/00	15:06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : BW-3

Date Sampled : 09/25/00 14:00 Order #: 411662 Sample Matrix: WATER
Date Received: 09/26/00 Submission #: R2003988

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	1.00	MG/L	10/09/00	1.0
POTASSIUM	6010B	2.00	3.81	MG/L	10/09/00	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	10/09/00	1.0

COLUMBIA ANALYTICAL SERVICES**VOLATILE ORGANICS**

METHOD 8260B TCL

Reported: 10/27/00

Conestoga Rovers & Associates

Project Reference: UCAR

Client Sample ID : BW-3

Date Sampled : 09/25/00 14:00 Order #: 411662
Date Received: 09/26/00 Submission #: R2003988Sample Matrix: WATER
Analytical Run 56797

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 10/04/00		
ANALYTICAL DILUTION:	1.00		
ACETONE	20	20 U	UG/L
BENZENE	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
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
DIBROMOCHLOROMETHANE	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
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-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
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
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
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
i-BROMOFLUOROBENZENE	(86 - 115 %)	93	%
TOLUENE-D8	(88 - 110 %)	103	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	101	%

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : BW-4

Date Sampled : 09/25/00 14:50 Order #: 411663 Sample Matrix: WATER
Date Received: 09/26/00 Submission #: R2003988

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	4.21	MG/L	10/03/00	14:01	4.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/27/00	08:57	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.977	MG/L	10/13/00	15:06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : BW-4

Date Sampled : 09/25/00 14:50 Order #: 411663 Sample Matrix: WATER
Date Received: 09/26/00 Submission #: R2003988

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	3.05	MG/L	10/09/00	1.0
POTASSIUM	6010B	2.00	19.1	MG/L	10/09/00	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	10/09/00	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL

Reported: 10/27/00

Conestoga Rovers & Associates

Project Reference: UCAR

Client Sample ID : BW-4

Date Sampled : 09/25/00 14:50 Order #: 411663

Sample Matrix: WATER

Date Received: 09/26/00 Submission #: R2003988

Analytical Run 56797

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/04/00			
ANALYTICAL DILUTION: 2.00			
ACETONE	20	40 U	UG/L
BENZENE	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
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
DIBROMOCHLOROMETHANE	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
CIS-1,2-DICHLOROETHENE	5.0	250	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	10 U	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
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
TETRACHLOROETHENE	5.0	360	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	250	UG/L
VINYL CHLORIDE	5.0	90	UG/L
O-XYLENE	5.0	10 U	UG/L
M+P-XYLENE	5.0	10 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

1-BROMOFLUOROBENZENE	(86 - 115 %)	92	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	104	%

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : DUP

Date Sampled : 09/25/00 11:37	Order #: 411664	Sample Matrix: WATER
Date Received: 09/26/00	Submission #: R2003988	

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.617	MG/L	10/03/00	14:01	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/27/00	08:57	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.791	MG/L	10/13/00	15:06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : DUP

Date Sampled : 09/25/00 11:37 Order #: 411664 Sample Matrix: WATER
Date Received: 09/26/00 Submission #: R2003988

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	1.01	MG/L	10/09/00	1.0
POTASSIUM	6010B	2.00	4.02	MG/L	10/09/00	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	10/09/00	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : DUP

Date Sampled : 09/25/00 11:37 Order #: 411664 Sample Matrix: WATER
Date Received: 09/26/00 Submission #: R2003988 Analytical Run 56797

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/04/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	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
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
DIBROMOCHLOROMETHANE	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
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-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
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
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
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES**QC LIMITS**

1-BROMOFLUOROBENZENE	(86 - 115 %)	90	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	101	%

COLUMBIA ANALYTICAL SERVICES

Reported: 10/30/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : GW9B

Date Sampled : 09/25/00 11:37
Date Received: 09/26/00

Order #: 411666
Submission #: R2003988

Sample Matrix: WATER

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.518	MG/L	10/03/00	14:01	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/27/00	08:57	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.950	MG/L	10/13/00	15:06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/30/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : GW9B

Date Sampled : 09/25/00 11:37
Date Received: 09/26/00

Order #: 411666
Submission #: R2003988

Sample Matrix: WATER

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	0.100 U	MG/L	10/09/00	1.0
POTASSIUM	6010B	2.00	5.41	MG/L	10/09/00	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	10/09/00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates

Project Reference: UCAR

Client Sample ID : BW-2

Date Sampled : 09/25/00 15:12

Order #: 411667

Sample Matrix: WATER

Date Received: 09/26/00

Submission #: R2003988

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	0.612	MG/L	10/03/00	14:01	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/27/00	08:57	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	1.32	MG/L	10/13/00	15:06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : BW-2

Date Sampled : 09/25/00 15:12	Order #: 411667	Sample Matrix: WATER
Date Received: 09/26/00	Submission #: R2003988	

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	1.78	MG/L	10/09/00	1.0
POTASSIUM	6010B	2.00	6.12	MG/L	10/09/00	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	10/09/00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : MW-3

Date Sampled : 09/25/00 15:16 Order #: 411668 Sample Matrix: WATER
Date Received: 09/26/00 Submission #: R2003988

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	0.0500 U	MG/L	10/03/00	14:01	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/27/00	08:57	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.405	MG/L	10/13/00	15:06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : MW-3

Date Sampled : 09/25/00 15:16 Order #: 411668 Sample Matrix: WATER
Date Received: 09/26/00 Submission #: R2003988

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	1.48	MG/L	10/09/00	1.0
POTASSIUM	6010B	2.00	2.00 U	MG/L	10/09/00	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	10/09/00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : BW-5

Date Sampled : 09/25/00 15:40	Order #: 411669	Sample Matrix: WATER
Date Received: 09/26/00	Submission #: R2003988	

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.151	MG/L	10/03/00	14:01	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/27/00	08:57	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.355	MG/L	10/13/00	15:06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : BW-5

Date Sampled : 09/25/00 15:40	Order #: 411669	Sample Matrix: WATER
Date Received: 09/26/00	Submission #: R2003988	

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	0.753	MG/L	10/09/00	1.0
POTASSIUM	6010B	2.00	2.82	MG/L	10/09/00	1.0
ZINC	6010B	0.0200	0.0932	MG/L	10/09/00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : MW-2

Date Sampled : 09/25/00	Order #: 411670	Sample Matrix: WATER
Date Received: 09/26/00	Submission #: R2003988	

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	1.21	MG/L	10/03/00	14:01	1.0
NITRITE NITROGEN	353.2	0.0100	0.0183	MG/L	09/27/00	08:57	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	2.00	MG/L	10/13/00	15:06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : MW-2

Date Sampled : 09/25/00	Order #: 411670	Sample Matrix: WATER
Date Received: 09/26/00	Submission #: R2003988	

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	21.2	MG/L	10/09/00	1.0
POTASSIUM	6010B	2.00	3.24	MG/L	10/09/00	1.0
ZINC	6010B	0.0200	0.760	MG/L	10/09/00	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : TRIP BLANK

Date Sampled : 09/25/00 Order #: 411671 Sample Matrix: WATER
Date Received: 09/26/00 Submission #: R2003988 Analytical Run 56797

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/04/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	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
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
DIBROMOCHLOROMETHANE	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
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-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
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
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
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	93	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	102	%

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : MW-1

Date Sampled : 09/27/00 13:30 Order #: 412422 Sample Matrix: WATER
Date Received: 09/28/00 Submission #: R2003988

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	8.57	MG/L	10/03/00	14:01	4.0
NITRITE NITROGEN	353.2	0.0100	0.0193	MG/L	09/29/00	13:19	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	10.4	MG/L	10/13/00	15:06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/27/00

Conestoga Rovers & Associates
Project Reference: UCAR
Client Sample ID : MW-1

Date Sampled : 09/27/00 13:30 Order #: 412422 Sample Matrix: WATER
Date Received: 09/28/00 Submission #: R2003988

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	5.12	MG/L	10/09/00	1.0
POTASSIUM	6010B	2.00	36.5	MG/L	10/09/00	1.0
ZINC	6010B	0.0200	0.0309	MG/L	10/09/00	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/27/00

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 418161 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 56797

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/04/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	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
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
DIBROMOCHLOROMETHANE	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
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-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
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
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
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	91	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 10/27/00
CAS Order # : 411659 - GW8B
Client : Conestoga Rovers & Associates
UCAR
Reported Units: MG/L
Run # : 55930

PRECISION

ACCURACY

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
0.0500 U	0.0500 U	NC	0.447	0.500	89	70 - 130

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COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 10/27/00
CAS Order # : 411659 - GW8B
Client : Conestoga Rovers & Associates
UCAR
Reported Units: MG/L
Run # : 55752

PRECISION

ACCURACY

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
0.0100 U	0.0100 U	NC	0.250	0.250	100	70 - 130

ITRITE NITROGEN

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 10/27/00
CAS Order # : 411659 - GW8B
Client : Conestoga Rovers & Associates
UCAR
Reported Units: MG/L
Run # : 56350

PRECISION

ACCURACY

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
0.200 U	0.200 U	NC	4.23	5.00	85	70 - 130

TOTAL KJELDAHL NITROGEN

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 10/27/00
CAS Order # : 411659 - GW8B
Client : Conestoga Rovers & Associates
UCAR
Reported Units: MG/L
Run # : 56288

PRECISION

ACCURACY

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
0.100 U	0.100 U	NC	1.09	120	109	75 - 125
6.52	7.06	8	26.0	120	98	75 - 125
0.208	0.225	8	0.722	120	103	75 - 125

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COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2003988
Client: Conestoga Rovers & Associates
UCAR

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
IRON	0.100 U	1.07	120	107	80 - 120	56288	MG/L
POTASSIUM	2.00 U	19.2	120	96	80 - 120	56288	MG/L
ZINC	0.0200 U	0.538	120	108	80 - 120	56288	MG/L
NITRITE NITROGEN	0.0100 U	0.266	0.250	107	80 - 120	55752	MG/L
NITRITE NITROGEN	0.0100 U	0.249	0.250	99	80 - 120	55862	MG/L
AMMONIA	0.0500 U	0.513	0.500	103	80 - 120	55930	MG/L
TOTAL KJELDAHL NITROGEN	0.200 U	4.24	5.00	85	80 - 120	56350	MG/L

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
WATER

Spiked Order No. : 411659 Conestoga Rovers & Associates

Client ID: GW8B

Test: 8260B TCL

Analytical Units: UG/L

Run Number : 56797

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.	
BENZENE	50.0	0	52.0	104	51.0	102	2	11	76 - 127	
CHLOROBENZENE	50.0	0	54.0	108	51.0	102	6	13	75 - 130	
1,1-DICHLOROETHENE	50.0	0	55.0	110	51.0	102	8	14	61 - 145	
TOLUENE	50.0	0	50.0	100	49.0	98	2	13	76 - 125	
TRICHLOROETHENE	50.0	5.10	55.0	100	54.0	98	2	14	71 - 120	

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B TCLLABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 418162

ANALYTICAL RUN #: 56797

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 10/04/00			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	130	21 - 165
BENZENE	20.0	111	37 - 151
BROMODICHLOROMETHANE	20.0	109	35 - 155
BROMOFORM	20.0	94	45 - 169
BROMOMETHANE	20.0	100	10 - 242
2-BUTANONE (MEK)	20.0	134	25 - 162
CARBON DISULFIDE	20.0	106	45 - 148
CARBON TETRACHLORIDE	20.0	106	70 - 140
CHLOROBENZENE	20.0	104	37 - 160
CHLOROETHANE	20.0	99	53 - 149
CHLOROFORM	20.0	111	51 - 138
CHLOROMETHANE	20.0	105	10 - 273
DIBROMOCHLOROMETHANE	20.0	98	53 - 149
1,1-DICHLOROETHANE	20.0	103	59 - 155
1,2-DICHLOROETHANE	20.0	102	49 - 155
1,1-DICHLOROETHENE	20.0	105	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	111	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	111	54 - 156
1,2-DICHLOROPROPANE	20.0	106	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	112	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	108	17 - 183
ETHYLBENZENE	20.0	101	37 - 162
2-HEXANONE	20.0	128	22 - 155
METHYLENE CHLORIDE	20.0	114	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	125	46 - 157
STYRENE	20.0	100	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	120	46 - 157
TETRACHLOROETHENE	20.0	96	64 - 148
TOLUENE	20.0	102	47 - 150
1,1,1-TRICHLOROETHANE	20.0	105	52 - 162
1,1,2-TRICHLOROETHANE	20.0	116	52 - 150
TRICHLOROETHENE	20.0	103	71 - 157
VINYL CHLORIDE	20.0	95	10 - 251
O-XYLENE	20.0	95	71 - 135
M+P-XYLENE	40.0	97	71 - 135

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: TRE
 Lab Code: 10145 Case No.: R2-3988 SAS No.: SDG No.:
 Lab File ID (Standard): X3137.D Date Analyzed: 10/04/00
 Instrument ID: GCMS#1 Time Analyzed: 10:00
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge (Y/N): N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	148073	9.14	250904	10.46	204196	15.91
UPPER LIMIT	296146	8.64	501808	9.96	408392	15.41
LOWER LIMIT	74037	9.64	125452	10.96	102098	16.41
EPA SAMPLE NO.						
01 MET BLK	141210	9.14	235542	10.44	185093	15.90
02 LCS	142921	9.14	234900	10.45	197360	15.90
03 GW8B	140652	9.14	234234	10.45	184502	15.90
04 GW8B(MS)	137282	9.15	243293	10.44	193394	15.90
05 GW8B(MSD)	150656	9.14	252870	10.44	211073	15.90
06 BW-1	154093	9.14	264269	10.45	213880	15.90
07 BW-6	144713	9.15	253932	10.45	199476	15.90
08 BW-3	139854	9.14	239554	10.45	188824	15.90
09 BW-4	136240	9.13	231708	10.45	180486	15.89
10 DUP	135443	9.13	233542	10.44	182159	15.89
11 TRIP BLANK	133886	9.13	222454	10.44	175034	15.88

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenze
 IS4 = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: TRE
 Lab Code: 10145 Case No.: R2-3988 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): X3137.D Date Analyzed: 10/04/00
 Instrument ID: GCMS#1 Time Analyzed: 10:00
 GC Column: DB-624 ID: 0.32 (mm) Heated Purge (Y/N): N

	IS4					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	93452	20.56				
UPPER LIMIT	186904	20.06				
LOWER LIMIT	46726	21.06				
EPA SAMPLE NO.						
01 MET BLK	65561	20.55				
02 LCS	82874	20.56				
03 GW8B	68761	20.55				
04 GW8B(MS)	87870	20.55				
05 GW8B(MSD)	91690	20.55				
06 BW-1	79396	20.55				
07 BW-6	71936	20.55				
08 BW-3	68267	20.55				
09 BW-4	67265	20.54				
10 DUP	65245	20.54				
11 TRIP BLANK	65447	20.54				

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenze
 IS4 = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits



FRONTIER TECHNICAL ASSOCIATES, INC
WELL MONITORING FIELD FORM

Site Location: UCAR Job No.: ET-862
Sample Point I.D.: BW-1 Sampling Firm: Frontier Technical Associates, Inc.
Address: 8675 Sheridan Drive, Buffalo, N.Y. 14221 Telephone No.: (716) 634-2293

PURGE INFORMATION

Purge Method: Bailer, Peristaltic Pump

2" Well = 0.163 gal/ft; 3" Well = 0.367 gal/ft; 4" Well = 0.653 gal/ft

Depth to Bottom of Well: 34.50 ft.

Depth to Water Surface: 17.70 ft.

Depth of Water Column: 16.80 ft.

Volume of Standing Water in Well: 8.4 gallons

Start of Purge: Date: 9/25/00 Time: 9:56 am

End of Purge: Date: 9/25/00 Time: 10:56 am

Total Volume Purge: 25.3 gallons Well Purged Dry?: Yes No

of Volumes Purged 3 Purging Personnel: David Harty P.E.

Recharge Rate: Rapid Slow Extremely Slow

SAMPLING INFORMATION

Sample Method: Bailer, Peristaltic Pump

Sample Date: 9/25/00 Sample Time: 10:56 Depth to Water Surface 17.84 ft.

Sample Appearance: Clear

Samples Preserved: Yes No Dissolved Metals Field Filtered Yes No NA

Sampling Personnel: David Harty

FIELD MEASUREMENTS

Meters Calibrated Yes No

PARAMETER	METER NUMBER	UNITS	MEASUREMENT	NOTES
Turbidity	Hach 16800	NTU	8	

Weather: Clear 45-60 F

Notes: Depth from steel casing to bottom = 24.50'



FRONTIER TECHNICAL ASSOCIATES, INC
WELL MONITORING FIELD FORM

Site Location: UCAR Job No.: ET-862
Sample Point I.D.: GW-9B Sampling Firm: Frontier Technical Associates, Inc.
Address: 8675 Sheridan Drive, Buffalo, N.Y. 14221 Telephone No.: (716) 634-2293

PURGE INFORMATION

Purge Method: Bailer, Peristaltic Pump

2" Well = 0.163 gal/ft; 3" Well = 0.367 gal/ft; 4" Well = 0.653 gal/ft

Depth to Bottom of Well: 29.50 ft.

Depth to Water Surface: 13.57 ft.

Depth of Water Column: 15.93 ft.

Volume of Standing Water in Well: 2.6 gallons

Start of Purge: Date: 9/25/00 Time: 11:20 am

End of Purge: Date: 9/25/00 Time: 11:36 am

Total Volume Purge: 7.8 gallons Well Purged Dry?: Yes No

of Volumes Purged: 7.8 3 Purging Personnel: David Harty P.E.

Recharge Rate: Rapid Slow Extremely Slow

SAMPLING INFORMATION

Sample Method: Bailer, Peristaltic Pump

Sample Date: 9/25/00 Sample Time: 11:37 am Depth to Water Surface 13.97 ft.

Sample Appearance: Clear

Samples Preserved Yes No Dissolved Metals Field Filtered Yes No NA

Sampling Personnel: David Harty

FIELD MEASUREMENTS

Meters Calibrated Yes No

PARAMETER	METER NUMBER	UNITS	MEASUREMENT	NOTES
Turbidity	Hach 16800	NTU	<u>3</u>	

Weather: Clear 45-60 F

Notes: Depth to bottom of well 23.19'



FRONTIER TECHNICAL ASSOCIATES, INC.
WELL MONITORING FIELD FORM

Site Location: UCAR Job No.: ET-862
Sample Point I.D.: GW-8B Sampling Firm: Frontier Technical Associates, Inc.
Address: 8675 Sheridan Drive, Buffalo, N.Y. 14221 Telephone No.: (716) 634-2293

PURGE INFORMATION

Purge Method: Bailer, Peristaltic Pump

2" Well = 0.163 gal/ft; 3" Well = 0.367 gal/ft; 4" Well = 0.653 gal/ft

Depth to Bottom of Well: 29.50 ft.

Depth to Water Surface: 10.15 ft.

Depth of Water Column: 19.35 ft.

Volume of Standing Water in Well: 3.15 gallons

Start of Purge: Date: 9/25/00 Time: 9:30 am

End of Purge: Date: 9/25/00 Time: 9:00 am

Total Volume Purge: 9.5 gallons Well Purged Dry?: Yes No

of Volumes Purged 3 Purging Personnel: David Harty P.E.

Recharge Rate: Rapid Slow Extremely Slow

SAMPLING INFORMATION

Sample Method: Bailer, Peristaltic Pump

Sample Date: 9/25/00 Sample Time: 9:01 am Depth to Water Surface 25.59 ft.

Sample Appearance: Clear

Samples Preserved: Yes No Dissolved Metals Field Filtered Yes No NA

Sampling Personnel: David Harty

FIELD MEASUREMENTS

Meters Calibrated Yes No

PARAMETER	METER NUMBER	UNITS	MEASUREMENT	NOTES
Turbidity	Hach 16800	NTU	<u>9.5</u>	

Weather: Clear 45-60 F

Notes: Depth from top of steel casing to bottom = 25.59'



FRONTIER TECHNICAL ASSOCIATES, INC.
WELL MONITORING FIELD FORM

Site Location: UCAR Job No.: ET-862
Sample Point I.D.: BW-5 Sampling Firm: Frontier Technical Associates, Inc.
Address: 8675 Sheridan Drive, Buffalo, N.Y. 14221 Telephone No.: (716) 634-2293

PURGE INFORMATION

Purge Method: Bailer Peristaltic Pump

2" Well = 0.163 gal/ft; 3" Well = 0.367 gal/ft; 4" Well = 0.653 gal/ft

Depth to Bottom of Well: 28.20 ft.

Depth to Water Surface: 12.40 ft.

Depth of Water Column: 15.80 ft.

Volume of Standing Water in Well: 5.8 gallons

Start of Purge: Date: 9/25/00 Time: 2:40 pm

End of Purge: Date: 9/25/00 Time: 3:15 pm

Total Volume Purge: 18 gallons Well Purged Dry?: Yes No

of Volumes Purged 3 Purging Personnel: David Harty P.E.

Recharge Rate: Rapid Slow Extremely Slow

SAMPLING INFORMATION

Sample Method: Bailer Peristaltic Pump

Sample Date: 9/25/00 Sample Time: 3:16 pm Depth to Water Surface 12.40 ft.

Sample Appearance: Clear

Samples Preserved: Yes No Dissolved Metals Field Filtered Yes No NA

Sampling Personnel: David Harty

FIELD MEASUREMENTS

Meters Calibrated: Yes No

PARAMETER	METER NUMBER	UNITS	MEASUREMENT	NOTES
Turbidity	Hach 16800	NTU	<u>10</u>	

Weather: Clear 45-60 F

Notes: Depth from steel casing to well bottom 28.90'



FRONTIER TECHNICAL ASSOCIATES, INC.
WELL MONITORING FIELD FORM

Site Location: UCAR Job No.: ET-862
Sample Point I.D.: MW-3 Sampling Firm: Frontier Technical Associates, Inc.
Address: 8675 Sheridan Drive, Buffalo, N.Y. 14221 Telephone No.: (716) 634-2293

PURGE INFORMATION

Purge Method: Bailer, Peristaltic Pump

2" Well = 0.163 gal/ft; 3" Well = 0.367 gal/ft; 4" Well = 0.653 gal/ft

Depth to Bottom of Well: 14.40 ft.

Depth to Water Surface: 10.70 ft.

Depth of Water Column: 3.70 ft.

Volume of Standing Water in Well: 0.5 gallons

Start of Purge: Date: 9/25/00 Time: 3:08pm

End of Purge: Date: 9/25/00 Time: 3:11pm

Total Volume Purge: 1.8 gallons Well Purged Dry?: Yes No

of Volumes Purged 3 Purging Personnel: David Harty P.E.

Recharge Rate: Rapid Slow Extremely Slow

SAMPLING INFORMATION

Sample Method: Bailer, Peristaltic Pump

Sample Date: 9/25/00 Sample Time: 3:12pm Depth to Water Surface 14.90 ft.

Sample Appearance: Clear

Samples Preserved: Yes No Dissolved Metals Field Filtered Yes No NA

Sampling Personnel: David Harty

FIELD MEASUREMENTS

Meters Calibrated Yes No

PARAMETER	METER NUMBER	UNITS	MEASUREMENT	NOTES
Turbidity	Hach 16800	NTU	<u>17</u>	

Weather: Clear 45-60 F

Notes: Depth to bottom of well from steel casing 16.10



FRONTIER TECHNICAL ASSOCIATES, INC.
WELL MONITORING FIELD FORM

Site Location: UCAR Job No.: ET-862
Sample Point I.D.: BW-2 Sampling Firm: Frontier Technical Associates, Inc.
Address: 8675 Sheridan Drive, Buffalo, N.Y. 14221 Telephone No.: (716) 634-2293

PURGE INFORMATION

Purge Method: Bailer Peristaltic Pump

2" Well = 0.163 gal/ft, 3" Well = 0.367 gal/ft, 4" Well = 0.653 gal/ft

Depth to Bottom of Well: 37.10 ft.

Depth to Water Surface: 13.43 ft.

Depth of Water Column: 23.67 ft.

Volume of Standing Water in Well: 8.6 gallons

Start of Purge: Date: 9/25/00 Time: 12:15 pm

End of Purge: Date: 9/25/00 Time: 2:25 pm

Total Volume Purge: 26 gallons Well Purged Dry?: Yes No

of Volumes Purged 3 Purging Personnel: David Harty P.E.

Recharge Rate Rapid Slow Extremely Slow

SAMPLING INFORMATION

Sample Method: Bailer Peristaltic Pump

Sample Date: 9/25/00 Sample Time: 2:30 pm Depth to Water Surface 13.10 ft.

Sample Appearance: Clear

Samples Preserved: Yes No Dissolved Metals Field Filtered Yes No NA

Sampling Personnel: David Harty

FIELD MEASUREMENTS

Meters Calibrated Yes No

PARAMETER	METER NUMBER	UNITS	MEASUREMENT	NOTES
Turbidity	Hach 16800	NTU	<u>5</u>	

Weather: Clear 45-60 F

Notes: Depth from steel casing to bottom of well 26.80



FRONTIER TECHNICAL ASSOCIATES, INC.
WELL MONITORING FIELD FORM

Site Location: UCAR Job No.: ET-862
Sample Point I.D.: BW-4 Sampling Firm: Frontier Technical Associates, Inc.
Address: 8675 Sheridan Drive, Buffalo, N.Y. 14221 Telephone No.: (716) 634-2293

PURGE INFORMATION

Purge Method: Bailer, Peristaltic Pump

2" Well = 0.163 gal/ft; 3" Well = 0.367 gal/ft; 4" Well = 0.653 gal/ft

Depth to Bottom of Well: 27.50 ft.

Depth to Water Surface: 12.25 ft.

Depth of Water Column: 15.25 ft.

Volume of Standing Water in Well: 5.59 gallons

Start of Purge: Date: 9/25/00 Time: 2:15 pm

End of Purge: Date: 9/25/00 Time: 2:45 pm

Total Volume Purge: 16.7 gallons Well Purged Dry?: Yes No

of Volumes Purged 3 Purging Personnel: David Harty P.E.

Recharge Rate: Rapid, Slow, Extremely Slow

SAMPLING INFORMATION

Sample Method: Bailer, Peristaltic Pump

Sample Date: 9/25/00 Sample Time: 2:50 pm Depth to Water Surface 14.1 ft.

Sample Appearance: Clear

Samples Preserved: Yes No Dissolved Metals Field Filtered Yes No NA

Sampling Personnel: David Harty

FIELD MEASUREMENTS

Meters Calibrated Yes No

PARAMETER	METER NUMBER	UNITS	MEASUREMENT	NOTES
Turbidity	Hach 16800	NTU	<u>10</u>	

Weather: Clear 45-60 F

Notes: Depth to bottom of well from steel casing = 22.80



FRONTIER TECHNICAL ASSOCIATES, INC
WELL MONITORING FIELD FORM

Site Location: UCAR Job No.: ET-862
Sample Point I.D.: BW-3 Sampling Firm: Frontier Technical Associates, Inc.
Address: 8675 Sheridan Drive, Buffalo, N.Y. 14221 Telephone No.: (716) 634-2293

PURGE INFORMATION

Purge Method: Bailer Peristaltic Pump

2" Well = 0.163 gal/ft; 3" Well = 0.367 gal/ft; 4" Well = 0.653 gal/ft

Depth to Bottom of Well: 22.70 ft.

Depth to Water Surface: 14.40 ft.

Depth of Water Column: 8.30 ft.

Volume of Standing Water in Well: 3.04 gallons

Start of Purge: Date: 9/25/00 Time: 1:00pm

End of Purge: Date: 9/25/00 Time: 1:45pm

Total Volume Purge: 9.1 gallons Well Purged Dry?: Yes No

of Volumes Purged 3 Purging Personnel: David Harty P.E.

Recharge Rate: Rapid Slow Extremely Slow

SAMPLING INFORMATION

Sample Method: Bailer Peristaltic Pump

Sample Date: 9/25/00 Sample Time: 2:00pm Depth to Water Surface 14.36 ft

Sample Appearance: Clear

Samples Preserved: Yes No Dissolved Metals Field Filtered Yes No NA

Sampling Personnel: David Harty

FIELD MEASUREMENTS

Meters Calibrated Yes No

PARAMETER	METER NUMBER	UNITS	MEASUREMENT	NOTES
Turbidity	Hach 16800	NTU	8	

Weather: Clear 45-60 F

Notes: Depth from steel casing to bottom of well 24.94



FRONTIER TECHNICAL ASSOCIATES, INC
WELL MONITORING FIELD FORM

Site Location: UCAR Job No.: ET-862
Sample Point I.D.: MW-6 Sampling Firm: Frontier Technical Associates, Inc.
Address: 8675 Sheridan Drive, Buffalo, N.Y. 14221 Telephone No.: (716) 634-2293

PURGE INFORMATION

Purge Method: Bailer, Peristaltic Pump

2" Well = 0.163 gal/ft; 3" Well = 0.367 gal/ft; 4" Well = 0.653 gal/ft

Depth to Bottom of Well: 36.50 ft.

Depth to Water Surface: 12.50 ft.

Depth of Water Column: 24.00 ft.

Volume of Standing Water in Well: 9.8 gallons

Start of Purge: Date: 9/25/00 Time: 10:25 am

End of Purge: Date: 9/25/00 Time: 11:45 am

Total Volume Purge: 26.5 gallons Well Purged Dry?: Yes No

of Volumes Purged 3 Purging Personnel: David Harty P.E.

Recharge Rate: Rapid Slow Extremely Slow

SAMPLING INFORMATION

Sample Method: Bailer, Peristaltic Pump

Sample Date: 9/25/00 Sample Time: 11:51 am Depth to Water Surface 15.70 ft.

Sample Appearance: Clear

Samples Preserved: Yes No Dissolved Metals Field Filtered Yes No NA

Sampling Personnel: David Harty

FIELD MEASUREMENTS

Meters Calibrated Yes No

PARAMETER	METER NUMBER	UNITS	MEASUREMENT	NOTES
Turbidity	Hach 16800	NTU	<u>15</u>	

Weather: Clear 45-60 F

Notes: Depth from steel casing to bottom of well 22.95



FRONTIER TECHNICAL ASSOCIATES, INC.
WELL MONITORING FIELD FORM

Site Location: UCAR Job No.: ET-862
Sample Point I.D.: MW-1 Sampling Firm: Frontier Technical Associates, Inc.
Address: 8675 Sheridan Drive, Buffalo, N.Y. 14221 Telephone No.: (716) 634-2293

PURGE INFORMATION

Purge Method: Bailer, Peristaltic Pump

2" Well = 0.163 gal/ft; 3" Well = 0.367 gal/ft; 4" Well = 0.653 gal/ft

Depth to Bottom of Well: 18.30 ft.

Depth to Water Surface: 8.23 ft.

Depth of Water Column: 10.07 ft.

Volume of Standing Water in Well: 6.6 gallons

Start of Purge: Date: 9/25/00 Time: 10:05 am

End of Purge: Date: 9/25/00 Time: 10:09 am

Total Volume Purge: 2.5 gallons Well Purged Dry? Yes No

of Volumes Purged < 1 Purging Personnel: David Harty P.E.

Recharge Rate: Rapid, Slow, Extremely Slow

SAMPLING INFORMATION

Sample Method: Bailer, Peristaltic Pump

Sample Date: 9/27/00 Sample Time: 1:30 pm Depth to Water Surface — ft.

Sample Appearance: Clear

Samples Preserved: Yes No Dissolved Metals Field Filtered Yes No NA

Sampling Personnel: David Harty

FIELD MEASUREMENTS

Meters Calibrated Yes No

PARAMETER	METER NUMBER	UNITS	MEASUREMENT	NOTES
Turbidity	Hach 16800	NTU	<u>45</u>	

Weather: Clear 45 -60 F

Notes: _____

FRONTIER TECHNICAL ASSOCIATES, INC.
WELL MONITORING FIELD FORM

Site Location: UCAR Job No.: ET-862
Sample Point I.D.: MW-2 Sampling Firm: Frontier Technical Associates, Inc.
Address: 8675 Sheridan Drive, Buffalo, N.Y. 14221 Telephone No.: (716) 634-2293

PURGE INFORMATION

Purge Method: Bailer Peristaltic Pump2" Well = 0.163 gal/ft; 3" Well = 0.367 gal/ft; 4" Well = 0.653 gal/ftDepth to Bottom of Well: 24.8 ft.Depth to Water Surface: 22.9 ft.Depth of Water Column: 1.9 ft.Volume of Standing Water in Well: 1.24 gallonsStart of Purge: Date: 9/25/00 Time: 12:15 pmEnd of Purge: Date: 9/25/00 Time: 12:17 pmTotal Volume Purge: 0.5 gallons Well Purged Dry?: Yes No# of Volumes Purged < 1 Purging Personnel: David Harty P.E.Recharge Rate: Rapid Slow Extremely Slow

SAMPLING INFORMATION

Sample Method: Bailer Peristaltic PumpSample Date: 9/25/00 Sample Time: 5:40 pm Depth to Water Surface 22.6 ft.Sample Appearance: Clear with many tiny bubblesSamples Preserved Yes No Dissolved Metals Field Filtered Yes No NASampling Personnel: David Harty

FIELD MEASUREMENTS

Meters Calibrated Yes No

PARAMETER	METER NUMBER	UNITS	MEASUREMENT	NOTES
Turbidity	Hach 16800	NTU	48	

Weather: Clear 45-60 FNotes: Depth from steel casing to bottom of well 24.80'



FRONTIER TECHNICAL ASSOCIATES INC.

MONITORING POINT ASSESSMENT FORM

Monitoring Point: BWS Date: 9/25/00

Inspector's Name (Print): MEUSSA KORDEE

Inspector's Company: FTA

Address: 8675 Sheridan Drive, Buffalo, NY 14221

Well Locked: ☒ Yes No NA

Lock Functioning: ☒ Yes No NA

Bailer and Rope OK: ☒ Yes No NA

Tubing OK: ☒ Yes No NA

Protective Casing OK: ☒ Yes No NA

Concrete Pad in Good Condition: ☒ Yes No NA

Heaving of Well or Casing: Yes ☒ No NA

Well Sand in Purge Water: Yes ☒ No NA

Well Constricted: Yes ☒ No NA

Debris in Well: Yes ☒ No NA

Insects in Well: Yes ☒ No NA Type: _____

Wind Blown Dust inside Protective Casing: Yes ☒ No NA

Other Observations or Details on Conditions Identified Above: _____

Inspector's Signature: Melissa Korde



FRONTIER TECHNICAL ASSOCIATES INC.

MONITORING POINT ASSESSMENT FORM

Monitoring Point: BW-4 Date: 9/25/00

Inspector's Name (Print): MELISSA KOROSSE

Inspector's Company: FTA

Address: 8675 Sheridan Drive, Buffalo NY 14221

Well Locked:	☒ Yes	☐ No	☐ NA
Lock Functioning:	☒ Yes	☐ No	☐ NA
Bailer and Rope OK:	☒ Yes	☐ No	☐ NA
Tubing OK:	☒ Yes	☐ No	☐ NA
Protective Casing OK:	☒ Yes	☐ No	☐ NA
Concrete Pad in Good Condition:	☒ Yes	☐ No	☐ NA
Heaving of Well or Casing:	☐ Yes	☒ No	☐ NA
Well Sand in Purge Water:	☐ Yes	☒ No	☐ NA
Well Constricted:	☐ Yes	☒ No	☐ NA
Debris in Well:	☐ Yes	☒ No	☐ NA
Insects in Well:	☐ Yes	☒ No	☐ NA Type: _____
Wind Blown Dust inside Protective Casing:	☐ Yes	☒ No	☐ NA

Other Observations or Details on Conditions Identified Above: _____

POISON IVY ALL AROUND WELL

Inspector's Signature: Melissa Korosse



FRONTIER TECHNICAL ASSOCIATES INC.

MONITORING POINT ASSESSMENT FORM

Monitoring Point: BUL-3 Date: 9/25/00

Inspector's Name (Print): MELISSA KAROSEE

Inspector's Company: FTA

Address: 8075 Sheridan Drive, Buffalo NY 14221

Well Locked: ☒ Yes ☐ No ☐ NA

Lock Functioning: ☒ Yes ☐ No ☐ NA

Bailer and Rope OK: ☒ Yes ☐ No ☐ NA

Tubing OK: ☒ Yes ☐ No ☐ NA

Protective Casing OK: ☒ Yes ☐ No ☐ NA

Concrete Pad in Good Condition: ☒ Yes ☐ No ☐ NA

Heaving of Well or Casing: Yes ☒ No ☐ NA

Well Sand in Purge Water: Yes ☒ No ☐ NA

Well Constricted: Yes ☒ No ☐ NA

Debris in Well: Yes ☒ No ☐ NA

Insects in Well: Yes ☒ No ☐ NA Type: _____

Wind Blown Dust inside Protective Casing: Yes ☒ No ☐ NA

Other Observations or Details on Conditions Identified Above: _____

POISON IVY AROUND AREA

Inspector's Signature: Melissa Karosee



FRONTIER TECHNICAL ASSOCIATES INC.

MONITORING POINT ASSESSMENT FORM

Monitoring Point: BW-2 Date: 4/25/00

Inspector's Name (Print): MELISSA KARASEC

Inspector's Company: FTA

Address: 8675 Sheridan Drive, Buffalo NY 14221

Well Locked:	☒ Yes	☐ No	☐ NA
Lock Functioning:	☒ Yes	☐ No	☐ NA
Bailer and Rope OK:	☒ Yes	☐ No	☐ NA
Tubing OK:	☒ Yes	☐ No	☐ NA
Protective Casing OK:	☒ Yes	☐ No	☐ NA
Concrete Pad in Good Condition:	☒ Yes	☐ No	☐ NA
Heaving of Well or Casing:	☐ Yes	☒ No	☐ NA
Well Sand in Purge Water:	☐ Yes	☒ No	☐ NA
Well Constricted:	☐ Yes	☒ No	☐ NA
Debris in Well:	☐ Yes	☒ No	☐ NA
Insects in Well:	☐ Yes	☒ No	☐ NA Type: _____
Wind Blown Dust Inside Protective Casing:	☐ Yes	☒ No	☐ NA

Other Observations or Details on Conditions Identified Above: _____

Inspector's Signature: Melissa Karasec



FRONTIER TECHNICAL ASSOCIATES INC.

MONITORING POINT ASSESSMENT FORM

Monitoring Point: mw-6 Date: 9/25/00

Inspector's Name (Print): MELISSA KORASEC

Inspector's Company: FTA

Address: 8675 Sheridan Drive, Buffalo, NY 14221

Well Locked:	☒ Yes	☐ No	☐ NA
Lock Functioning:	☒ Yes	☐ No	☐ NA
Bailer and Rope OK:	☒ Yes	☐ No	☐ NA
Tubing OK:	☒ Yes	☐ No	☐ NA
Protective Casing OK:	☒ Yes	☐ No	☐ NA
Concrete Pad in Good Condition:	☒ Yes	☐ No	☐ NA
Heaving of Well or Casing:	☐ Yes	☒ No	☐ NA
Well Sand in Purge Water:	☐ Yes	☒ No	☐ NA
Well Constricted:	☐ Yes	☒ No	☐ NA
Debris in Well:	☐ Yes	☒ No	☐ NA
Insects in Well:	☐ Yes	☒ No	☐ NA Type: _____
Wind Blown Dust Inside Protective Casing:	☐ Yes	☒ No	☐ NA

Other Observations or Details on Conditions Identified Above: _____

Inspector's Signature: Melissa Korasec



FRONTIER TECHNICAL ASSOCIATES INC.

MONITORING POINT ASSESSMENT FORM

Monitoring Point: BW-1 Date: 9/25/00

Inspector's Name (Print): MELISSA KOROSSE

Inspector's Company: FTA

Address: 8675 Sherman Drive, Buffalo NY 14221

Well Locked: ☒ Yes No NA

Lock Functioning: ☒ Yes No NA

Bailer and Rope OK: ☒ Yes No NA

Tubing OK: ☒ Yes No NA

Protective Casing OK: ☒ Yes No NA

Concrete Pad in Good Condition: ☒ Yes No NA

Heaving of Well or Casing: Yes ☒ No NA

Well Sand in Purge Water: Yes ☒ No NA

Well Constricted: Yes ☒ No NA

Debris in Well: Yes ☒ No NA

Insects in Well: Yes ☒ No NA Type: _____

Wind Blown Dust inside Protective Casing: Yes ☒ No NA

Other Observations or Details on Conditions Identified Above: _____

Inspector's Signature: Melissa Korosse



FRONTIER TECHNICAL ASSOCIATES INC.

MONITORING POINT ASSESSMENT FORM

Monitoring Point: mw-1 Date: 9/20/00

Inspector's Name (Print): MELISSA KOROSKE

Inspector's Company: FTA

Address: 8675 Sheridan Drive, Buffalo, NY 14221

Well Locked: ☒ Yes ☐ No ☐ NA

Lock Functioning: ☒ Yes ☐ No ☐ NA

Bailer and Rope OK: ☒ Yes ☐ No ☐ NA

Tubing OK: ☒ Yes ☐ No ☐ NA

Protective Casing OK: ☒ Yes ☐ No ☐ NA

Concrete Pad in Good Condition: ☒ Yes ☐ No ☐ NA

Heaving of Well or Casing: Yes ☒ No ☐ NA

Well Sand in Purge Water: Yes ☒ No ☐ NA

Well Constricted: Yes ☒ No ☐ NA

Debris in Well: Yes ☒ No ☐ NA

Insects in Well: ☒ Yes ☐ No ☐ NA Type: WASP/BEE NEST

Wind Blown Dust inside Protective Casing: Yes ☒ No ☐ NA

Other Observations or Details on Conditions Identified Above: _____

Inspector's Signature: Melissa Koroske



FRONTIER TECHNICAL ASSOCIATES INC.

MONITORING POINT ASSESSMENT FORM

Monitoring Point: GW - 8B Date: 9/25/00

Inspector's Name (Print): MELISSA KOROSEK

Inspector's Company: FTA

Address: 8675 Sheridan Drive, Buffalo NY 14221

Well Locked: ☒ Yes No NA

Lock Functioning: ☒ Yes No NA

Bailer and Rope OK: ☒ Yes No NA

Tubing OK: ☒ Yes No NA

Protective Casing OK: ☒ Yes No NA

Concrete Pad in Good Condition: ☒ Yes No NA

Heaving of Well or Casing: Yes ☒ No NA

Well Sand in Purge Water: Yes ☒ No NA

Well Constricted: Yes ☒ No NA

Debris in Well: Yes ☒ No NA

Insects in Well: Yes ☒ No NA Type: _____

Wind Blown Dust inside Protective Casing: Yes ☒ No NA

Other Observations or Details on Conditions Identified Above: _____

Inspector's Signature: Melissa Korosek



FRONTIER TECHNICAL ASSOCIATES INC.

MONITORING POINT ASSESSMENT FORM

Monitoring Point: BW-9B Date: 9/25/00

Inspector's Name (Print): MELISSA KROSER

Inspector's Company: FTA

Address: 8675 Sheridan Drive, Buffalo NY 14221

Well Locked: ☒ Yes No NA

Lock Functioning: ☒ Yes No NA

Bailer and Rope OK: ☒ Yes No NA

Tubing OK: ☒ Yes No NA

Protective Casing OK: ☒ Yes No NA

Concrete Pad in Good Condition: ☒ Yes No NA

Heaving of Well or Casing: ☒ Yes No NA

Well Sand in Purge Water: Yes ☒ No NA

Well Constricted: Yes ☒ No NA

Debris in Well: Yes ☒ No NA

Insects in Well: ☒ Yes No NA Type: FLYING ANTS

Wind Blown Dust Inside Protective Casing: Yes ☒ No NA

Other Observations or Details on Conditions Identified Above: _____

Inspector's Signature: Melissa Krosier



FRONTIER TECHNICAL ASSOCIATES INC.

MONITORING POINT ASSESSMENT FORM

Monitoring Point: MW-2 Date: 9/25/00

Inspector's Name (Print): MELISSA KOROSSEL

Inspector's Company: FTA

Address: 8675 Sheinden Drive, Buffalo NY 14221

Well Locked: ☒ Yes ☐ No ☐ NA

Lock Functioning: ☒ Yes ☐ No ☐ NA

Bailer and Rope OK: ☒ Yes ☐ No ☐ NA

Tubing OK: ☒ Yes ☐ No ☐ NA

Protective Casing OK: ☒ Yes ☐ No ☐ NA

Concrete Pad in Good Condition: ☒ Yes ☐ No ☐ NA

Heaving of Well or Casing: ☐ Yes ☒ No ☐ NA

Well Sand in Purge Water: ☐ Yes ☒ No ☐ NA

Well Constricted: ☐ Yes ☒ No ☐ NA

Debris in Well: ☐ Yes ☒ No ☐ NA

Insects in Well: ☐ Yes ☒ No ☐ NA Type: _____

Wind Blown Dust Inside Protective Casing: ☐ Yes ☒ No ☐ NA

Other Observations or Details on Conditions Identified Above: _____

Inspector's Signature: Melissa Koroscel



FRONTIER TECHNICAL ASSOCIATES INC.

MONITORING POINT ASSESSMENT FORM

Monitoring Point: MW3 Date: 9/25/00

Inspector's Name (Print): MELISSA KOROSER

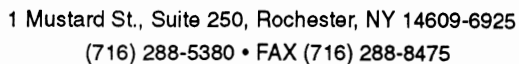
Inspector's Company: FTA

Address: 8675 Sheridan Drive, Buffalo NY 14221

Well Locked:	☒ Yes	☐ No	☐ NA
Lock Functioning:	☒ Yes	☐ No	☐ NA
Bailer and Rope OK:	☒ Yes	☐ No	☐ NA
Tubing OK:	☒ Yes	☐ No	☐ NA
Protective Casing OK:	☒ Yes	☐ No	☐ NA
Concrete Pad in Good Condition:	☒ Yes	☐ No	☐ NA
Heaving of Well or Casing:	☐ Yes	☒ No	☐ NA
Well Sand in Purge Water:	☐ Yes	☒ No	☐ NA
Well Constricted:	☐ Yes	☒ No	☐ NA
Debris in Well:	☐ Yes	☒ No	☐ NA
Insects in Well:	☐ Yes	☒ No	☐ NA Type: _____
Wind Blown Dust inside Protective Casing:	☐ Yes	☒ No	☐ NA

Other Observations or Details on Conditions Identified Above: _____

Inspector's Signature: Melissa Koroser



DATE 9/25/00 PAGE 1 OF 2

[illegible]



1 Mustard St., Suite 250, Rochester, NY 14609-6925
(716) 288-5380 • FAX (716) 288-8475

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 9/25/00 PAGE 2 OF 2

PROJECT NAME UCAR
PROJECT MANAGER/CONTACT Mark Wilson
COMPANY/ADDRESS Columbia Analytical Services
1 Mustard Street, Suite 250 Rochester NY
TEL (716) 288-5380 FAX (716) 288-8475
SAMPLER'S SIGNATURE [Signature]

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	FOR OFFICE USE ONLY LAB I.D.	SAMPLE MATRIX	# OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ 95-1	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ 95-2	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/PCB's ☐ 8081 ☐ 608 ☐ 95-3	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (LIST BELOW)	METALS, DISSOLVED (LIST BELOW)	Ammonia	TKN	Nitrate	Volatiles	PRESERVATION		
																				pH < 2.0	pH > 12	Other
GW 8B	9/25/00	9:01	411659	W	6									X		X	X	X	X			
BW-1		10:55	60	W	6									X		X	X	X	X			
GW 9B		11:37	66	W	3									X		X	X	X				
MW-6		11:51	61	W	6									X		X	X	X	X			
BW-63		2:00	62	W	6									X		X	X	X	X			
BW-2		2:30	67	W	3									X		X	X					
BW-4		2:50	63	W	6									X		X	X	X	X			
MW-3		3:12	68	W	3									X		X	X	X				
BW5		3:16	69	W	3									X		X	X	X				
MW-2		3:40	70	W	3									X		X	X	X				

RELINQUISHED BY:
Signature [Signature]
Printed Name David Hardy
Firm CAS
Date/Time 9/26/00 1335

RECEIVED BY:
Signature [Signature]
Printed Name M. BRITT
Firm CAS
Date/Time 9/26/00 1335

TURNAROUND REQUIREMENTS
___ 24 hr. ___ 48 hr. ___ 5 day
☒ Standard (10-15 working days)
___ Provide Verbal Preliminary Results
___ Provide FAX Preliminary Results
Requested Report Date _____

REPORT REQUIREMENTS
___ 1. Routine Report
___ 2. Routine Rep. w/CASE Narrative
___ 3. EPA Level III Validatable Package
___ 4. N.J. Reduced Deliverables Level IV
___ 5. NY ASP/CLP Deliverables
___ 6. Site specific QC.

INVOICE INFORMATION:
P.O. #: CAS
Bill To: _____

SAMPLE RECEIPT:
Shipping Via: CAS
Shipping #: _____
Temperature: 3°
Submission No: R2/3988

RELINQUISHED BY:
Signature [Signature]
Printed Name M. BRITT
Firm CAS
Date/Time 9/26/00 1525

RECEIVED BY:
Signature [Signature]
Printed Name Gregory O. Esmerian
Firm CAS
Date/Time 9-26-00 15:25

SPECIAL INSTRUCTIONS/COMMENTS:

METALS Iron, Potassium, Zinc
ORGANICS: ☐ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client CRAI Submission Number R2-3988

Cooler received on 9/26/00 by: HE 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: 30

Is the temperature within 0° - 6° C?: Yes ☒ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐

If No, Explain Below No ☐ No ☐ No ☐ No ☐ No ☐

Date/Time Temperatures Taken: 9/26/00 1530

Thermometer ID: IR-Gun Temp Blank Sample Bottle Cooler Temp. IR. Gun

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 9-27-00 by: HE

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:

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 9/27/00 PAGE 1 OF 1

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Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client CRA Submission Number 12-3988

Cooler received on 9/28/00 by: AK 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

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: 9/28/00 1555

Thermometer ID: _____ Temp Blank Sample Bottle Cooler Temp IR. Gun

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 9-29-00 by: MM

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	☒	☐	<u>412422</u>	<u>HNO₃</u>	<u>3 ml</u>
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: