

ANALYTICAL SUMMARY REPORT

received 02/12/2011
complaint 200294386

February 11, 2011

Amy Dahl
14218 Switchback Rd
Weston, CO 81091

Workorder No.: C11020158

Project Name: Tracy Dahl

time of sample
collection incorrect
PAG 2/14/2011

Energy Laboratories, Inc. Casper WY received the following 2 samples for Amy Dahl on 2/4/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11020158-001	Well Head	02/03/11 11:30	02/04/11	Drinking Water	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Bacteria, Iron Related Bacteria, SDWA Slime Mercury, Total Mercury Analysis Prep Sample Filtering Fluoride Methane Hardness E300.0 Anions Nitrogen, Nitrite Nitrogen, Nitrate + Nitrite Nitrogen, Nitrate as N pH Metals Preparation by EPA 200.2 Solids, Total Dissolved Sulfide, Methylene Blue Colorimetric Turbidity E524.2 SDWA VOCs
C11020158-002	Trip Bank 6136	02/03/11 00:00	02/04/11	Aqueous	E524.2 SDWA VOCs

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:



CLIENT: Amy Dahl
Project: Tracy Dahl
Sample Delivery Group: C11020158

Report Date: 02/11/11

CASE NARRATIVE

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl
Client Sample ID: Well Head
Sampled By: Fred Baros
Lab ID: C11020158-001A

Report Date: 02/11/11
Collection Date: 02/03/11 11:30
Received Date: 02/04/11 09:30
Matrix: Drinking Water

Analyses	Result	Units	Safe/Unsafe	Qualifier	Method	Analysis Date / By
MICROBIOLOGICAL						
Bacteria, Total Coliform	Absent		SAFE		A9223 B	02/04/11 15:09 / dkh
Bacteria, E-Coli Coliform	Absent				A9223 B	02/04/11 15:09 / dkh

Comments: The notation "SAFE" indicates that the water was bacteriologically SAFE when sampled.

The notation "UNSAFE" indicates that the water was bacteriologically UNSAFE when sampled.

Method Reference: E - EPA / MCAWW Methodology A - Standard Methods 19th Ed.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl
Lab ID: C11020158-001
Client Sample ID: Well Head

Report Date: 02/11/11
Collection Date: 02/03/11 11:30
Date Received: 02/04/11
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MICROBIOLOGICAL							
Bacteria, Iron Related	12000	CFU/ml		1.0		IRB-BART	02/04/11 15:09 / dkh
Slime	2550	CFU/ml		1.00		SLYM-BART	02/04/11 15:09 / dkh
~ 90 hours incubation							
~ 5 days incubation							
MAJOR IONS							
Alkalinity, Total as CaCO ₃	235	mg/L		5		A2320 B	02/07/11 16:42 / jba
Calcium	37	mg/L		1		E200.7	02/08/11 13:56 / cp
Chloride	106	mg/L	D	2		E300.0	02/10/11 16:49 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	02/07/11 13:15 / jba
Magnesium	2	mg/L		1		E200.7	02/08/11 13:56 / cp
Nitrogen, Nitrate as N	ND	mg/L		0.1		E353.2	02/11/11 09:53 / sdw
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	02/04/11 16:44 / dc
Nitrogen, Nitrite as N	ND	mg/L		0.1		A4500-NO ₂ B	02/04/11 12:43 / lr
Sodium	180	mg/L		1		E200.7	02/08/11 13:56 / cp
Sulfate	51	mg/L	D	2		E300.0	02/09/11 19:17 / ljl
NON-METALS							
Sulfide	ND	mg/L		0.04		A4500 S-D	02/10/11 14:20 / eli-b
Sulfide as Hydrogen Sulfide (H ₂ S)	ND	mg/L		0.04		A4500 S-D	02/10/11 14:20 / eli-b
PHYSICAL PROPERTIES							
Hardness as CaCO ₃	102	mg/L		1		A2340 B	02/08/11 13:56 / sdw
pH	7.20	s.u.		0.01		A4500-H B	02/04/11 15:29 / lr
Solids, Total Dissolved TDS @ 180 C	617	mg/L		10		A2540 C	02/04/11 15:35 / lmc
Turbidity	27.0	NTU		0.1		A2130 B	02/04/11 11:49 / lr
METALS - TOTAL							
Aluminum	1.3	mg/L		0.1		E200.7	02/08/11 18:03 / cp
Arsenic	0.002	mg/L		0.001		E200.8	02/08/11 20:15 / sml
Barium	0.3	mg/L		0.1		E200.7	02/08/11 18:03 / cp
Cadmium	ND	mg/L		0.01		E200.7	02/08/11 18:03 / cp
Chromium	ND	mg/L		0.05		E200.7	02/08/11 18:03 / cp
Copper	0.01	mg/L		0.01		E200.7	02/08/11 18:03 / cp
Iron	2.31	mg/L		0.03		E200.7	02/08/11 18:03 / cp
Lead	ND	mg/L		0.05		E200.7	02/08/11 18:03 / cp
Manganese	1.25	mg/L		0.01		E200.7	02/08/11 18:03 / cp
Mercury	ND	mg/L		0.0001		E245.1	02/07/11 12:47 / rdw
Nickel	ND	mg/L		0.05		E200.7	02/08/11 18:03 / cp
Selenium	ND	mg/L		0.001		E200.8	02/08/11 20:15 / sml
Silver	ND	mg/L		0.01		E200.7	02/08/11 18:03 / cp
Zinc	0.06	mg/L		0.01		E200.7	02/08/11 18:03 / cp

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl
Lab ID: C11020158-001
Client Sample ID: Well Head

Report Date: 02/11/11
Collection Date: 02/03/11 11:30
Date Received: 02/04/11
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance (± 5)	6.22	%				Calculation	02/11/11 14:34 / sdw
Anions	8.77	meq/L				Calculation	02/11/11 14:34 / sdw
Cations	9.94	meq/L				Calculation	02/11/11 14:34 / sdw
Solids, Total Dissolved Calculated	540	mg/L				Calculation	02/11/11 14:34 / sdw
TDS Balance (0.80 - 1.20)	1.14					Calculation	02/11/11 14:34 / sdw
- The Anion / Cation balance was confirmed by re-analysis.							
NATURAL GAS COMPOUNDS							
Methane	ND	mg/L		0.001		SW8015M	02/09/11 08:45 / eli-b
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
1,1,1-Trichloroethane	ND	ug/L		0.50	200	E524.2	02/08/11 00:25 / jlr
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
1,1,2-Trichloroethane	ND	ug/L		0.50	5	E524.2	02/08/11 00:25 / jlr
1,1-Dichloroethane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
1,1-Dichloroethene	ND	ug/L		0.50	7	E524.2	02/08/11 00:25 / jlr
1,1-Dichloropropene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
1,2,3-Trichlorobenzene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
1,2,3-Trichloropropane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
1,2,4-Trichlorobenzene	ND	ug/L		0.50	70	E524.2	02/08/11 00:25 / jlr
1,2,4-Trimethylbenzene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
1,2-Dibromo-3-chloropropane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
1,2-Dibromoethane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
1,2-Dichlorobenzene	ND	ug/L		0.50	600	E524.2	02/08/11 00:25 / jlr
1,2-Dichloroethane	ND	ug/L		0.50	5	E524.2	02/08/11 00:25 / jlr
1,2-Dichloropropane	ND	ug/L		0.50	5	E524.2	02/08/11 00:25 / jlr
1,3,5-Trimethylbenzene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
1,3-Dichlorobenzene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
1,3-Dichloropropane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
1,4-Dichlorobenzene	ND	ug/L		0.50	75	E524.2	02/08/11 00:25 / jlr
2,2-Dichloropropane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
2-Chlorotoluene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
4-Chlorotoluene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Benzene	ND	ug/L		0.50	5	E524.2	02/08/11 00:25 / jlr
Bromobenzene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Bromochloromethane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Bromodichloromethane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Bromoform	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Bromomethane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Carbon tetrachloride	ND	ug/L		0.50	5	E524.2	02/08/11 00:25 / jlr
Chlorobenzene	ND	ug/L		0.50	100	E524.2	02/08/11 00:25 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl
Lab ID: C11020158-001
Client Sample ID: Well Head

Report Date: 02/11/11
Collection Date: 02/03/11 11:30
Date Received: 02/04/11
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloroethane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Chloroform	7.20	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Chloromethane	4.40	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
cis-1,2-Dichloroethene	ND	ug/L		0.50	70	E524.2	02/08/11 00:25 / jlr
cis-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Dibromomethane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Dichlorodifluoromethane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Ethylbenzene	ND	ug/L		0.50	700	E524.2	02/08/11 00:25 / jlr
Hexachlorobutadiene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Isopropylbenzene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
m+p-Xylenes	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Methyl tert-butyl ether (MTBE)	ND	ug/L		2.0		E524.2	02/08/11 00:25 / jlr
Methylene chloride	ND	ug/L		0.50	5	E524.2	02/08/11 00:25 / jlr
Naphthalene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
n-Butylbenzene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
n-Propylbenzene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
o-Xylene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
p-Isopropyltoluene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
sec-Butylbenzene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Styrene	ND	ug/L		0.50	100	E524.2	02/08/11 00:25 / jlr
tert-Butylbenzene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Tetrachloroethene	ND	ug/L		0.50	5	E524.2	02/08/11 00:25 / jlr
Toluene	5.16	ug/L		0.50	1000	E524.2	02/08/11 00:25 / jlr
trans-1,2-Dichloroethene	ND	ug/L		0.50	100	E524.2	02/08/11 00:25 / jlr
trans-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Trichloroethene	ND	ug/L		0.50	5	E524.2	02/08/11 00:25 / jlr
Trichlorofluoromethane	ND	ug/L		0.50		E524.2	02/08/11 00:25 / jlr
Vinyl chloride	ND	ug/L		0.50	2	E524.2	02/08/11 00:25 / jlr
Xylenes, Total	ND	ug/L		0.50	10000	E524.2	02/08/11 00:25 / jlr
Trihalomethanes, Total	7.49	ug/L		0.50	80	E524.2	02/08/11 00:25 / jlr
Surr: Dibromofluoromethane	110	%REC		70-130		E524.2	02/08/11 00:25 / jlr
Surr: p-Bromofluorobenzene	96.0	%REC		70-130		E524.2	02/08/11 00:25 / jlr
Surr: Toluene-d8	102	%REC		70-130		E524.2	02/08/11 00:25 / jlr

- This analysis has been confirmed through the analysis of an alternate sample vial.

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl
Lab ID: C11020158-002
Client Sample ID: Trip Bank 6136

Report Date: 02/11/11
Collection Date: 02/03/11
Date Received: 02/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
1,1,1-Trichloroethane	ND	ug/L		0.50	200	E524.2	02/08/11 01:01 / jlr
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
1,1,2-Trichloroethane	ND	ug/L		0.50	5	E524.2	02/08/11 01:01 / jlr
1,1-Dichloroethane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
1,1-Dichloroethene	ND	ug/L		0.50	7	E524.2	02/08/11 01:01 / jlr
1,1-Dichloropropene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
1,2,3-Trichlorobenzene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
1,2,3-Trichloropropane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
1,2,4-Trichlorobenzene	ND	ug/L		0.50	70	E524.2	02/08/11 01:01 / jlr
1,2,4-Trimethylbenzene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
1,2-Dibromo-3-chloropropane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
1,2-Dibromoethane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
1,2-Dichlorobenzene	ND	ug/L		0.50	600	E524.2	02/08/11 01:01 / jlr
1,2-Dichloroethane	ND	ug/L		0.50	5	E524.2	02/08/11 01:01 / jlr
1,2-Dichloropropane	ND	ug/L		0.50	5	E524.2	02/08/11 01:01 / jlr
1,3,5-Trimethylbenzene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
1,3-Dichlorobenzene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
1,3-Dichloropropane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
1,4-Dichlorobenzene	ND	ug/L		0.50	75	E524.2	02/08/11 01:01 / jlr
2,2-Dichloropropane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
2-Chlorotoluene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
4-Chlorotoluene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Benzene	ND	ug/L		0.50	5	E524.2	02/08/11 01:01 / jlr
Bromobenzene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Bromochloromethane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Bromodichloromethane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Bromoform	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Bromomethane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Carbon tetrachloride	ND	ug/L		0.50	5	E524.2	02/08/11 01:01 / jlr
Chlorobenzene	ND	ug/L		0.50	100	E524.2	02/08/11 01:01 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Chloroethane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Chloroform	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Chloromethane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
cis-1,2-Dichloroethene	ND	ug/L		0.50	70	E524.2	02/08/11 01:01 / jlr
cis-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Dibromomethane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Dichlorodifluoromethane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Ethylbenzene	ND	ug/L		0.50	700	E524.2	02/08/11 01:01 / jlr
Hexachlorobutadiene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Isopropylbenzene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
m+p-Xylenes	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl
Lab ID: C11020158-002
Client Sample ID: Trip Bank 6136

Report Date: 02/11/11
Collection Date: 02/03/11
Date Received: 02/04/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Methyl tert-butyl ether (MTBE)	ND	ug/L		2.0		E524.2	02/08/11 01:01 / jlr
Methylene chloride	ND	ug/L		0.50	5	E524.2	02/08/11 01:01 / jlr
Naphthalene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
n-Butylbenzene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
n-Propylbenzene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
o-Xylene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
p-Isopropyltoluene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
sec-Butylbenzene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Styrene	ND	ug/L		0.50	100	E524.2	02/08/11 01:01 / jlr
tert-Butylbenzene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Tetrachloroethene	ND	ug/L		0.50	5	E524.2	02/08/11 01:01 / jlr
Toluene	ND	ug/L		0.50	1000	E524.2	02/08/11 01:01 / jlr
trans-1,2-Dichloroethene	ND	ug/L		0.50	100	E524.2	02/08/11 01:01 / jlr
trans-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Trichloroethene	ND	ug/L		0.50	5	E524.2	02/08/11 01:01 / jlr
Trichlorofluoromethane	ND	ug/L		0.50		E524.2	02/08/11 01:01 / jlr
Vinyl chloride	ND	ug/L		0.50	2	E524.2	02/08/11 01:01 / jlr
Xylenes, Total	ND	ug/L		0.50	10000	E524.2	02/08/11 01:01 / jlr
Trihalomethanes, Total	ND	ug/L		0.50	80	E524.2	02/08/11 01:01 / jlr
Surr: Dibromofluoromethane	108	%REC		70-130		E524.2	02/08/11 01:01 / jlr
Surr: p-Bromofluorobenzene	97.0	%REC		70-130		E524.2	02/08/11 01:01 / jlr
Surr: Toluene-d8	104	%REC		70-130		E524.2	02/08/11 01:01 / jlr

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl

Report Date: 02/11/11
Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2130 B								Analytical Run: TURB-1_110204A		
Sample ID: ICV-1_110204		Initial Calibration Verification Standard								02/04/11 11:35
Turbidity		0.925	NTU	0.10	93	90	110			
Sample ID: CCV-1_110204		Continuing Calibration Verification Standard								02/04/11 11:36
Turbidity		10.2	NTU	0.10	102	90	110			
Method: A2130 B								Batch: 110204_1_TURB-W		
Sample ID: MBLK-1_110204		Method Blank				Run: TURB-1_110204A				02/04/11 11:37
Turbidity		ND	NTU	0.1						
Sample ID: LCS-1_110204		Laboratory Control Sample				Run: TURB-1_110204A				02/04/11 11:38
Turbidity		10.3	NTU	0.10	103	90	110			
Sample ID: C11020158-001BDUP		Sample Duplicate				Run: TURB-1_110204A				02/04/11 11:50
Turbidity		27.4	NTU	0.10				1.5	10	

Qualifiers:

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Client: Amy Dahl
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Report Date: 02/11/11
Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R142527
Sample ID: MBLK										
Alkalinity, Total as CaCO ₃		Method Blank					Run: MANTECH_110207B			02/07/11 16:01
		ND	mg/L	1						
Sample ID: LCS										
Alkalinity, Total as CaCO ₃		Laboratory Control Sample					Run: MANTECH_110207B			02/07/11 16:17
		209	mg/L	5.0	105	90	110			
Sample ID: C11020163-002ADUP										
Alkalinity, Total as CaCO ₃		Sample Duplicate					Run: MANTECH_110207B			02/07/11 17:07
		332	mg/L	5.0				0.2	10	
Sample ID: C11020163-002AMS										
Alkalinity, Total as CaCO ₃		Sample Matrix Spike					Run: MANTECH_110207B			02/07/11 17:15
		467	mg/L	5.0	108	80	120			

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Client: Amy Dahl
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Report Date: 02/11/11
Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: R142563
Sample ID: MBLK1_										
		Method Blank								
		Run: BAL-1_110204A								
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						02/04/11 15:31
Sample ID: LCS1_										
		Laboratory Control Sample								
		Run: BAL-1_110204A								
Solids, Total Dissolved TDS @ 180 C		985	mg/L	10	98	90	110			02/04/11 15:31
Sample ID: C11020164-002ADUP										
		Sample Duplicate								
		Run: BAL-1_110204A								
Solids, Total Dissolved TDS @ 180 C		2410	mg/L	10				0.1	10	02/04/11 15:37
Sample ID: C11020164-004AMS										
		Sample Matrix Spike								
		Run: BAL-1_110204A								
Solids, Total Dissolved TDS @ 180 C		3450	mg/L	10	101	90	110			02/04/11 15:37

Qualifiers:

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Amy Dahl

Report Date: 02/11/11

Project: Tracy Dahl

Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500 S-D									Batch: B_R161057	
Sample ID: B11020682-003AMSD		Sample Matrix Spike Duplicate				Run: SUB-B161057				02/10/11 14:20
Sulfide		0.645	mg/L	0.040	114	70	130	0.1	20	
Sample ID: B11020682-003AMS		Sample Matrix Spike				Run: SUB-B161057				02/10/11 14:20
Sulfide		0.645	mg/L	0.040	114	70	130			
Sample ID: LCS-R161057		Laboratory Control Sample				Run: SUB-B161057				02/10/11 14:20
Sulfide		0.224	mg/L	0.040	116	70	130			
Sample ID: MB-R161057		Method Blank				Run: SUB-B161057				02/10/11 14:20
Sulfide		ND	mg/L	0.008						

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Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl

Report Date: 02/11/11
Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R142514
Sample ID: MBLK	Method Blank									
Fluoride		0.02	mg/L	0.008						Run: MANTECH_110207A 02/07/11 11:57
Sample ID: LCS	Laboratory Control Sample									
Fluoride		1.00	mg/L	0.10	98	90	110			Run: MANTECH_110207A 02/07/11 12:00
Sample ID: C11020163-004AMS	Sample Matrix Spike									
Fluoride		1.78	mg/L	0.10	95	80	120			Run: MANTECH_110207A 02/07/11 13:38
Sample ID: C11020163-004AMSD	Sample Matrix Spike Duplicate									
Fluoride		1.82	mg/L	0.10	99	80	120	2.2	10	Run: MANTECH_110207A 02/07/11 13:40

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Amy Dahl

Report Date: 02/11/11

Project: Tracy Dahl

Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Analytical Run: ORION555A-2_110204A			
Sample ID: ICV1_110204_1		Initial Calibration Verification Standard								02/04/11 14:51
pH		6.90	s.u.	0.010	101	98	102			
Method: A4500-H B							Batch: 110204_1_PH-W_555A-2			
Sample ID: C11020155-002ADUP		Sample Duplicate		Run: ORION555A-2_110204A				02/04/11 15:13		
pH		7.72	s.u.	0.010				0.0	3	

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl

Report Date: 02/11/11
Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NO2 B								Batch: A2011-02-04_6_NO2_01		
Sample ID: MBLK-1	Method Blank					Run: HACH DR3000_110204B			02/04/11 12:27	
Nitrogen, Nitrite as N		ND	mg/L	0.001						
Sample ID: LCS-2	Laboratory Control Sample					Run: HACH DR3000_110204B			02/04/11 12:27	
Nitrogen, Nitrite as N		1.03	mg/L	2.0	103	90	110			
Sample ID: C11020158-001BMS	Sample Matrix Spike					Run: HACH DR3000_110204B			02/04/11 13:03	
Nitrogen, Nitrite as N		0.0625	mg/L	0.10	110	90	110			
Sample ID: C11020158-001BMSD	Sample Matrix Spike Duplicate					Run: HACH DR3000_110204B			02/04/11 13:04	
Nitrogen, Nitrite as N		0.0620	mg/L	0.10	109	90	110		10	

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl

Report Date: 02/11/11
Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: 28962
Sample ID: MB-28962	11	Method Blank				Run: ICP2-C_110208A				02/08/11 17:42
Aluminum		ND	mg/L	0.01						
Barium		0.003	mg/L	0.002						
Cadmium		ND	mg/L	0.001						
Chromium		ND	mg/L	0.002						
Copper		0.002	mg/L	0.001						
Iron		ND	mg/L	0.008						
Lead		ND	mg/L	0.01						
Manganese		ND	mg/L	0.0008						
Nickel		ND	mg/L	0.003						
Silver		ND	mg/L	0.001						
Zinc		ND	mg/L	0.008						
Sample ID: LCS3-28962	11	Laboratory Control Sample				Run: ICP2-C_110208A				02/08/11 17:47
Aluminum		2.66	mg/L	0.10	106	85	115			
Barium		0.530	mg/L	0.10	105	85	115			
Cadmium		0.264	mg/L	0.010	106	85	115			
Chromium		0.523	mg/L	0.050	105	85	115			
Copper		0.529	mg/L	0.010	105	85	115			
Iron		2.68	mg/L	0.030	107	85	115			
Lead		0.531	mg/L	0.050	106	85	115			
Manganese		2.63	mg/L	0.010	105	85	115			
Nickel		0.538	mg/L	0.050	108	85	115			
Silver		0.0510	mg/L	0.010	102	85	115			
Zinc		0.505	mg/L	0.010	101	85	115			
Sample ID: C11020162-003AMS3	11	Sample Matrix Spike				Run: ICP2-C_110208A				02/08/11 18:23
Aluminum		2.67	mg/L	0.10	107	70	130			
Barium		0.620	mg/L	0.10	106	70	130			
Cadmium		0.265	mg/L	0.010	106	70	130			
Chromium		0.529	mg/L	0.050	106	70	130			
Copper		0.533	mg/L	0.010	106	70	130			
Iron		2.67	mg/L	0.030	107	70	130			
Lead		0.512	mg/L	0.050	102	70	130			
Manganese		2.67	mg/L	0.010	106	70	130			
Nickel		0.534	mg/L	0.050	107	70	130			
Silver		0.0519	mg/L	0.010	104	70	130			
Zinc		0.501	mg/L	0.010	100	70	130			
Sample ID: C11020162-003AMSD	11	Sample Matrix Spike Duplicate				Run: ICP2-C_110208A				02/08/11 18:27
Aluminum		2.50	mg/L	0.10	100	70	130	6.8	20	
Barium		0.597	mg/L	0.10	102	70	130	3.8	20	
Cadmium		0.253	mg/L	0.010	101	70	130	4.7	20	
Chromium		0.500	mg/L	0.050	100	70	130	5.6	20	
Copper		0.520	mg/L	0.010	103	70	130	2.5	20	
Iron		2.56	mg/L	0.030	103	70	130	4.2	20	
Lead		0.505	mg/L	0.050	101	70	130	1.4	20	

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QA/QC Summary Report

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Client: Amy Dahl
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Report Date: 02/11/11
Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: 28962
Sample ID: C11020162-003AMSD	11	Sample Matrix Spike Duplicate				Run: ICP2-C_110208A				02/08/11 18:27
Manganese		2.60	mg/L	0.010	103	70	130	2.7	20	
Nickel		0.518	mg/L	0.050	104	70	130	3.0	20	
Silver		0.0493	mg/L	0.010	99	70	130	5.1	20	
Zinc		0.510	mg/L	0.010	102	70	130	1.8	20	
Method: E200.7										Batch: R142582
Sample ID: MB-110208A	3	Method Blank				Run: ICP2-C_110208A				02/08/11 09:44
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-110208A	3	Laboratory Fortified Blank				Run: ICP2-C_110208A				02/08/11 09:48
Calcium		51.2	mg/L	0.50	102	85	115			
Magnesium		51.9	mg/L	0.50	104	85	115			
Sodium		47.5	mg/L	0.50	95	85	115			
Sample ID: C11020077-001BMS2	3	Sample Matrix Spike				Run: ICP2-C_110208A				02/08/11 12:00
Calcium		1040	mg/L	2.3	94	70	130			
Magnesium		662	mg/L	1.0	99	70	130			
Sodium		3330	mg/L	2.9		70	130			A
Sample ID: C11020077-001BMSD	3	Sample Matrix Spike Duplicate				Run: ICP2-C_110208A				02/08/11 12:04
Calcium		1050	mg/L	2.3	95	70	130	0.4	20	
Magnesium		669	mg/L	1.0	101	70	130	1.1	20	
Sodium		3290	mg/L	2.9		70	130	1.1	20	A

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A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

QA/QC Summary Report

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Report Date: 02/11/11
Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 28962
Sample ID: MB-28962	2	Method Blank					Run: ICPMS4-C_110208A			02/08/11 18:39
Arsenic		0.0007	mg/L	5E-05						
Selenium		ND	mg/L	3E-05						
Sample ID: LCS3-28962	2	Laboratory Control Sample					Run: ICPMS4-C_110208A			02/08/11 18:46
Arsenic		0.513	mg/L	0.0010	102	85	115			
Selenium		0.544	mg/L	0.0010	109	85	115			
Sample ID: C11020162-003AMS3	2	Sample Matrix Spike					Run: ICPMS4-C_110208A			02/08/11 21:03
Arsenic		0.517	mg/L	0.0010	103	70	130			
Selenium		0.523	mg/L	0.0010	104	70	130			
Sample ID: C11020162-003AMSD	2	Sample Matrix Spike Duplicate					Run: ICPMS4-C_110208A			02/08/11 21:10
Arsenic		0.493	mg/L	0.0010	98	70	130	4.7	20	
Selenium		0.509	mg/L	0.0010	101	70	130	2.7	20	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1										Batch: 28957
Sample ID: MB-28957		Method Blank					Run: CVAA_C203_110207A			02/07/11 12:33
Mercury		1E-05	mg/L	1E-06						
Sample ID: LCS-28957		Laboratory Control Sample					Run: CVAA_C203_110207A			02/07/11 12:34
Mercury		0.00485	mg/L	0.00010	97	90	110			
Sample ID: C11010885-001DMS		Sample Matrix Spike					Run: CVAA_C203_110207A			02/07/11 12:39
Mercury		0.00488	mg/L	0.00010	97	85	115			
Sample ID: C11010885-001DMSD		Sample Matrix Spike Duplicate					Run: CVAA_C203_110207A			02/07/11 12:40
Mercury		0.00484	mg/L	0.00010	97	85	115	0.8	10	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R142651
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_110207A				02/08/11 19:55
Sulfate		40.0	mg/L	1.0	100	90	110			
Sample ID: MBLK		Method Blank				Run: IC2-C_110207A				02/08/11 20:13
Sulfate		ND	mg/L	0.2						
Sample ID: LFB		Laboratory Fortified Blank				Run: IC2-C_110207A				02/08/11 20:48
Sulfate		48.5	mg/L	1.0	97	90	110			
Sample ID: C11020155-004AMS		Sample Matrix Spike				Run: IC2-C_110207A				02/09/11 16:58
Sulfate		1760	mg/L	8.0	93	80	120			
Sample ID: C11020155-004AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_110207A				02/09/11 17:15
Sulfate		1740	mg/L	8.0	87	80	120	1.5	10	
Method: E300.0										Batch: R142688
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_110210A				02/10/11 12:37
Chloride		10.0	mg/L	1.0	100	90	110			
Sample ID: MBLK		Method Blank				Run: IC2-C_110210A				02/10/11 12:54
Chloride		ND	mg/L	0.06						
Sample ID: LFB		Laboratory Fortified Blank				Run: IC2-C_110210A				02/10/11 13:29
Chloride		12.1	mg/L	1.0	96	90	110			
Sample ID: C11010659-010AMS		Sample Matrix Spike				Run: IC2-C_110210A				02/10/11 16:14
Chloride		154	mg/L	1.0	95	80	120			
Sample ID: C11010659-010AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_110210A				02/10/11 16:32
Chloride		152	mg/L	1.0	90	80	120	1.5	10	

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QA/QC Summary Report

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Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R142502
Sample ID: MBLK-1										
Method Blank							Run: TECHNICON_110204A			02/04/11 13:59
Nitrogen, Nitrate+Nitrite as N		0.07	mg/L	0.06						
Sample ID: LCS-2										
Laboratory Control Sample							Run: TECHNICON_110204A			02/04/11 14:01
Nitrogen, Nitrate+Nitrite as N		2.47	mg/L	0.10	96	90	110			
Sample ID: C11020163-002DMS										
Sample Matrix Spike							Run: TECHNICON_110204A			02/04/11 16:51
Nitrogen, Nitrate+Nitrite as N		2.22	mg/L	0.10	107	90	110			
Sample ID: C11020163-002DMSD										
Sample Matrix Spike Duplicate							Run: TECHNICON_110204A			02/04/11 16:54
Nitrogen, Nitrate+Nitrite as N		2.09	mg/L	0.10	100	90	110	6.0	10	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2										Batch: R142547
Sample ID: 020711_LCS_18	65 Laboratory Control Sample					Run: SATURNCA_110207D				02/07/11 21:24
1,1,1,2-Tetrachloroethane		10.1	ug/L	0.50	101	70	130			
1,1,1-Trichloroethane		11.1	ug/L	0.50	111	70	130			
1,1,2,2-Tetrachloroethane		10.6	ug/L	0.50	106	70	130			
1,1,2-Trichloroethane		9.72	ug/L	0.50	97	70	130			
1,1-Dichloroethane		11.8	ug/L	0.50	118	70	130			
1,1-Dichloroethene		10.2	ug/L	0.50	102	70	130			
1,1-Dichloropropene		11.5	ug/L	0.50	115	70	130			
1,2,3-Trichlorobenzene		10.5	ug/L	0.50	105	70	130			
1,2,3-Trichloropropane		10.7	ug/L	0.50	107	70	130			
1,2,4-Trichlorobenzene		10.6	ug/L	0.50	106	70	130			
1,2,4-Trimethylbenzene		10.6	ug/L	0.50	106	70	130			
1,2-Dibromo-3-chloropropane		11.2	ug/L	0.50	112	70	130			
1,2-Dibromoethane		9.76	ug/L	0.50	98	70	130			
1,2-Dichlorobenzene		10.6	ug/L	0.50	106	70	130			
1,2-Dichloroethane		12.0	ug/L	0.50	120	70	130			
1,2-Dichloropropane		10.5	ug/L	0.50	105	70	130			
1,3,5-Trimethylbenzene		11.0	ug/L	0.50	110	70	130			
1,3-Dichlorobenzene		10.4	ug/L	0.50	104	70	130			
1,3-Dichloropropane		10.2	ug/L	0.50	102	70	130			
1,4-Dichlorobenzene		11.2	ug/L	0.50	112	70	130			
2,2-Dichloropropane		11.1	ug/L	0.50	111	70	130			
2-Chlorotoluene		10.4	ug/L	0.50	104	70	130			
4-Chlorotoluene		10.7	ug/L	0.50	107	70	130			
Benzene		11.4	ug/L	0.50	114	70	130			
Bromobenzene		10.7	ug/L	0.50	107	70	130			
Bromochloromethane		10.8	ug/L	0.50	108	70	130			
Bromodichloromethane		10.4	ug/L	0.50	104	70	130			
Bromoform		10.6	ug/L	0.50	106	70	130			
Bromomethane		12.4	ug/L	0.50	124	70	130			
Carbon tetrachloride		10.9	ug/L	0.50	109	70	130			
Chlorobenzene		9.52	ug/L	0.50	95	70	130			
Chlorodibromomethane		9.32	ug/L	0.50	93	70	130			
Chloroethane		11.8	ug/L	0.50	118	70	130			
Chloroform		11.1	ug/L	0.50	111	70	130			
Chloromethane		9.32	ug/L	0.50	93	70	130			
cis-1,2-Dichloroethene		10.6	ug/L	0.50	106	70	130			
cis-1,3-Dichloropropene		11.5	ug/L	0.50	115	70	130			
Dibromomethane		10.2	ug/L	0.50	102	70	130			
Dichlorodifluoromethane		6.88	ug/L	0.50	69	70	130			S
Ethylbenzene		10.2	ug/L	0.50	102	70	130			
Hexachlorobutadiene		10.2	ug/L	0.50	102	70	130			
Isopropylbenzene		12.4	ug/L	0.50	124	70	130			
m+p-Xylenes		20.5	ug/L	0.50	102	70	130			
Methyl tert-butyl ether (MTBE)		11.7	ug/L	2.0	117	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl

Report Date: 02/11/11
Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2										Batch: R142547
Sample ID: 020711_LCS_18	65	Laboratory Control Sample				Run: SATURNCA_110207D			02/07/11 21:24	
Methylene chloride		10.6	ug/L	0.50	106	70	130			
Naphthalene		10.6	ug/L	0.50	106	70	130			
n-Butylbenzene		10.8	ug/L	0.50	108	70	130			
n-Propylbenzene		11.0	ug/L	0.50	110	70	130			
o-Xylene		10.4	ug/L	0.50	104	70	130			
p-Isopropyltoluene		11.0	ug/L	0.50	110	70	130			
sec-Butylbenzene		10.8	ug/L	0.50	108	70	130			
Styrene		10.3	ug/L	0.50	103	70	130			
tert-Butylbenzene		10.8	ug/L	0.50	108	70	130			
Tetrachloroethene		9.64	ug/L	0.50	96	70	130			
Toluene		10.3	ug/L	0.50	103	70	130			
trans-1,2-Dichloroethene		11.6	ug/L	0.50	116	70	130			
trans-1,3-Dichloropropene		11.8	ug/L	0.50	118	70	130			
Trichloroethene		10.1	ug/L	0.50	101	70	130			
Trichlorofluoromethane		10.3	ug/L	0.50	103	70	130			
Vinyl chloride		10.8	ug/L	0.50	108	70	130			
Xylenes, Total		30.8	ug/L	0.50	103	70	130			
Trihalomethanes, Total		41.4	ug/L	0.50	103	70	130			
Surr: Dibromofluoromethane				0.50	108	70	130			
Surr: p-Bromofluorobenzene				0.50	106	70	130			
Surr: Toluene-d8				0.50	108	70	130			
Sample ID: 020711_MBLK_20	65	Method Blank				Run: SATURNCA_110207D			02/07/11 22:36	
1,1,1,2-Tetrachloroethane		ND	ug/L	0.50						
1,1,1-Trichloroethane		ND	ug/L	0.50						
1,1,2,2-Tetrachloroethane		ND	ug/L	0.50						
1,1,2-Trichloroethane		ND	ug/L	0.50						
1,1-Dichloroethane		ND	ug/L	0.50						
1,1-Dichloroethene		ND	ug/L	0.50						
1,1-Dichloropropene		ND	ug/L	0.50						
1,2,3-Trichlorobenzene		ND	ug/L	0.50						
1,2,3-Trichloropropane		ND	ug/L	0.50						
1,2,4-Trichlorobenzene		ND	ug/L	0.50						
1,2,4-Trimethylbenzene		ND	ug/L	0.50						
1,2-Dibromo-3-chloropropane		ND	ug/L	0.50						
1,2-Dibromoethane		ND	ug/L	0.50						
1,2-Dichlorobenzene		ND	ug/L	0.50						
1,2-Dichloroethane		ND	ug/L	0.50						
1,2-Dichloropropane		ND	ug/L	0.50						
1,3,5-Trimethylbenzene		ND	ug/L	0.50						
1,3-Dichlorobenzene		ND	ug/L	0.50						
1,3-Dichloropropane		ND	ug/L	0.50						
1,4-Dichlorobenzene		ND	ug/L	0.50						
2,2-Dichloropropane		ND	ug/L	0.50						
2-Chlorotoluene		ND	ug/L	0.50						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl

Report Date: 02/11/11
Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2										Batch: R142547
Sample ID: 020711_MBLK_20	65	Method Blank				Run: SATURNCA_110207D				02/07/11 22:36
4-Chlorotoluene		ND	ug/L	0.50						
Benzene		ND	ug/L	0.50						
Bromobenzene		ND	ug/L	0.50						
Bromochloromethane		ND	ug/L	0.50						
Bromodichloromethane		ND	ug/L	0.50						
Bromoform		ND	ug/L	0.50						
Bromomethane		ND	ug/L	0.50						
Carbon tetrachloride		ND	ug/L	0.50						
Chlorobenzene		ND	ug/L	0.50						
Chlorodibromomethane		ND	ug/L	0.50						
Chloroethane		ND	ug/L	0.50						
Chloroform		ND	ug/L	0.50						
Chloromethane		ND	ug/L	0.50						
cis-1,2-Dichloroethene		ND	ug/L	0.50						
cis-1,3-Dichloropropene		ND	ug/L	0.50						
Dibromomethane		ND	ug/L	0.50						
Dichlorodifluoromethane		ND	ug/L	0.50						
Ethylbenzene		ND	ug/L	0.50						
Hexachlorobutadiene		ND	ug/L	0.50						
Isopropylbenzene		ND	ug/L	0.50						
m+p-Xylenes		ND	ug/L	0.50						
Methyl tert-butyl ether (MTBE)		ND	ug/L	2.0						
Methylene chloride		ND	ug/L	0.50						
Naphthalene		ND	ug/L	0.50						
n-Butylbenzene		ND	ug/L	0.50						
n-Propylbenzene		ND	ug/L	0.50						
o-Xylene		ND	ug/L	0.50						
p-Isopropyltoluene		ND	ug/L	0.50						
sec-Butylbenzene		ND	ug/L	0.50						
Styrene		ND	ug/L	0.50						
tert-Butylbenzene		ND	ug/L	0.50						
Tetrachloroethene		ND	ug/L	0.50						
Toluene		ND	ug/L	0.50						
trans-1,2-Dichloroethene		ND	ug/L	0.50						
trans-1,3-Dichloropropene		ND	ug/L	0.50						
Trichloroethene		ND	ug/L	0.50						
Trichlorofluoromethane		ND	ug/L	0.50						
Vinyl chloride		ND	ug/L	0.50						
Xylenes, Total		ND	ug/L	0.50						
Trihalomethanes, Total		ND	ug/L	0.50						
Surr: Dibromofluoromethane				0.50	115	70	130			
Surr: p-Bromofluorobenzene				0.50	97	70	130			
Surr: Toluene-d8				0.50	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl

Report Date: 02/11/11
Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2										Batch: R142547
Sample ID: C11020161-003AMS										02/08/11 02:50
63 Sample Matrix Spike										Run: SATURNCA_110207D
1,1,1,2-Tetrachloroethane		94.4	ug/L	5.0	94	70	130			
1,1,1-Trichloroethane		118	ug/L	5.0	118	70	130			
1,1,2,2-Tetrachloroethane		104	ug/L	5.0	104	70	130			
1,1,2-Trichloroethane		104	ug/L	5.0	104	70	130			
1,1-Dichloroethane		109	ug/L	5.0	109	70	130			
1,1-Dichloroethene		108	ug/L	5.0	108	70	130			
1,1-Dichloropropene		118	ug/L	5.0	118	70	130			
1,2,3-Trichlorobenzene		100	ug/L	5.0	100	70	130			
1,2,3-Trichloropropane		111	ug/L	5.0	111	70	130			
1,2,4-Trichlorobenzene		98.0	ug/L	5.0	98	70	130			
1,2,4-Trimethylbenzene		103	ug/L	5.0	103	70	130			
1,2-Dibromo-3-chloropropane		106	ug/L	5.0	106	70	130			
1,2-Dibromoethane		102	ug/L	5.0	102	70	130			
1,2-Dichlorobenzene		97.2	ug/L	5.0	97	70	130			
1,2-Dichloroethane		128	ug/L	5.0	128	70	130			
1,2-Dichloropropane		104	ug/L	5.0	104	70	130			
1,3,5-Trimethylbenzene		103	ug/L	5.0	103	70	130			
1,3-Dichlorobenzene		96.0	ug/L	5.0	96	70	130			
1,3-Dichloropropane		109	ug/L	5.0	109	70	130			
1,4-Dichlorobenzene		104	ug/L	5.0	104	70	130			
2,2-Dichloropropane		107	ug/L	5.0	107	70	130			
2-Chlorotoluene		106	ug/L	5.0	106	70	130			
4-Chlorotoluene		104	ug/L	5.0	104	70	130			
Benzene		109	ug/L	5.0	109	70	130			
Bromobenzene		102	ug/L	5.0	102	70	130			
Bromochloromethane		120	ug/L	5.0	120	70	130			
Bromodichloromethane		116	ug/L	5.0	104	70	130			
Bromoform		103	ug/L	5.0	103	70	130			
Bromomethane		150	ug/L	5.0	150	70	130			S
Carbon tetrachloride		117	ug/L	5.0	117	70	130			
Chlorobenzene		97.2	ug/L	5.0	97	70	130			
Chlorodibromomethane		96.4	ug/L	5.0	91	70	130			
Chloroethane		122	ug/L	5.0	122	70	130			
Chloroform		141	ug/L	5.0	123	70	130			
Chloromethane		97.2	ug/L	5.0	97	70	130			
cis-1,2-Dichloroethene		111	ug/L	5.0	111	70	130			
cis-1,3-Dichloropropene		111	ug/L	5.0	111	70	130			
Dibromomethane		106	ug/L	5.0	106	70	130			
Dichlorodifluoromethane		71.2	ug/L	5.0	71	70	130			
Ethylbenzene		99.6	ug/L	5.0	100	70	130			
Hexachlorobutadiene		94.8	ug/L	5.0	95	70	130			
Isopropylbenzene		118	ug/L	5.0	118	70	130			
m+p-Xylenes		208	ug/L	5.0	104	70	130			
Methyl tert-butyl ether (MTBE)		127	ug/L	20	127	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Amy Dahl

Report Date: 02/11/11

Project: Tracy Dahl

Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2										Batch: R142547
Sample ID: C11020161-003AMS	63	Sample Matrix Spike				Run: SATURNCA_110207D				02/08/11 02:50
Methylene chloride		107	ug/L	5.0	107	70	130			
Naphthalene		101	ug/L	5.0	101	70	130			
n-Butylbenzene		98.4	ug/L	5.0	98	70	130			
n-Propylbenzene		102	ug/L	5.0	102	70	130			
o-Xylene		100	ug/L	5.0	100	70	130			
p-Isopropyltoluene		104	ug/L	5.0	104	70	130			
sec-Butylbenzene		103	ug/L	5.0	103	70	130			
Styrene		66.0	ug/L	5.0	66	70	130			S
tert-Butylbenzene		104	ug/L	5.0	104	70	130			
Tetrachloroethene		99.2	ug/L	5.0	99	70	130			
Toluene		105	ug/L	5.0	105	70	130			
trans-1,2-Dichloroethene		122	ug/L	5.0	122	70	130			
trans-1,3-Dichloropropene		112	ug/L	5.0	112	70	130			
Trichloroethene		102	ug/L	5.0	102	70	130			
Trichlorofluoromethane		108	ug/L	5.0	108	70	130			
Vinyl chloride		112	ug/L	5.0	112	70	130			
Surr: Dibromofluoromethane				0.50	110	80	120			
Surr: p-Bromofluorobenzene				0.50	100	80	120			
Surr: Toluene-d8				0.50	105	80	120			
Sample ID: C11020161-003AMSD	63	Sample Matrix Spike Duplicate				Run: SATURNCA_110207D				02/08/11 03:27
1,1,1,2-Tetrachloroethane		95.6	ug/L	5.0	96	70	130	1.3	20	
1,1,1-Trichloroethane		118	ug/L	5.0	118	70	130	0.0	20	
1,1,2,2-Tetrachloroethane		107	ug/L	5.0	107	70	130	3.0	20	
1,1,2-Trichloroethane		102	ug/L	5.0	102	70	130	2.3	20	
1,1-Dichloroethane		112	ug/L	5.0	112	70	130	2.2	20	
1,1-Dichloroethene		107	ug/L	5.0	107	70	130	1.1	20	
1,1-Dichloropropene		120	ug/L	5.0	120	70	130	1.3	20	
1,2,3-Trichlorobenzene		109	ug/L	5.0	109	70	130	8.8	20	
1,2,3-Trichloropropane		112	ug/L	5.0	112	70	130	0.4	20	
1,2,4-Trichlorobenzene		104	ug/L	5.0	104	70	130	5.6	20	
1,2,4-Trimethylbenzene		106	ug/L	5.0	106	70	130	2.3	20	
1,2-Dibromo-3-chloropropane		124	ug/L	5.0	124	70	130	16	20	
1,2-Dibromoethane		101	ug/L	5.0	101	70	130	0.8	20	
1,2-Dichlorobenzene		102	ug/L	5.0	102	70	130	4.8	20	
1,2-Dichloroethane		129	ug/L	5.0	129	70	130	0.6	20	
1,2-Dichloropropane		104	ug/L	5.0	104	70	130	0.8	20	
1,3,5-Trimethylbenzene		108	ug/L	5.0	108	70	130	4.5	20	
1,3-Dichlorobenzene		96.8	ug/L	5.0	97	70	130	0.8	20	
1,3-Dichloropropane		107	ug/L	5.0	107	70	130	1.9	20	
1,4-Dichlorobenzene		109	ug/L	5.0	109	70	130	4.1	20	
2,2-Dichloropropane		106	ug/L	5.0	106	70	130	0.4	20	
2-Chlorotoluene		103	ug/L	5.0	103	70	130	3.4	20	
4-Chlorotoluene		112	ug/L	5.0	112	70	130	7.4	20	
Benzene		112	ug/L	5.0	112	70	130	2.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl

Report Date: 02/11/11
Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2										Batch: R142547
Sample ID: C11020161-003AMSD 63 Sample Matrix Spike Duplicate										Run: SATURNCA_110207D 02/08/11 03:27
Bromobenzene		104	ug/L	5.0	104	70	130	1.6	20	
Bromochloromethane		124	ug/L	5.0	124	70	130	3.3	20	
Bromodichloromethane		118	ug/L	5.0	106	70	130	2.0	20	
Bromoform		104	ug/L	5.0	104	70	130	1.2	20	
Bromomethane		158	ug/L	5.0	158	70	130	5.2	20	S
Carbon tetrachloride		116	ug/L	5.0	116	70	130	0.3	20	
Chlorobenzene		97.6	ug/L	5.0	98	70	130	0.4	20	
Chlorodibromomethane		96.8	ug/L	5.0	91	70	130	0.4	20	
Chloroethane		122	ug/L	5.0	122	70	130	0.3	20	
Chloroform		142	ug/L	5.0	124	70	130	1.1	20	
Chloromethane		102	ug/L	5.0	102	70	130	5.2	20	
cis-1,2-Dichloroethene		113	ug/L	5.0	113	70	130	1.8	20	
cis-1,3-Dichloropropene		111	ug/L	5.0	111	70	130	0.0	20	
Dibromomethane		103	ug/L	5.0	103	70	130	3.1	20	
Dichlorodifluoromethane		70.8	ug/L	5.0	71	70	130	0.6	20	
Ethylbenzene		105	ug/L	5.0	105	70	130	5.1	20	
Hexachlorobutadiene		98.8	ug/L	5.0	99	70	130	4.1	20	
Isopropylbenzene		126	ug/L	5.0	126	70	130	6.6	20	
m+p-Xylenes		210	ug/L	5.0	105	70	130	1.1	20	
Methyl tert-butyl ether (MTBE)		120	ug/L	20	120	70	130	6.2	20	
Methylene chloride		111	ug/L	5.0	111	70	130	3.3	20	
Naphthalene		107	ug/L	5.0	107	70	130	6.2	20	
n-Butylbenzene		106	ug/L	5.0	106	70	130	7.1	20	
n-Propylbenzene		108	ug/L	5.0	108	70	130	5.3	20	
o-Xylene		105	ug/L	5.0	105	70	130	4.3	20	
p-Isopropyltoluene		107	ug/L	5.0	107	70	130	2.6	20	
sec-Butylbenzene		108	ug/L	5.0	108	70	130	5.3	20	
Styrene		60.8	ug/L	5.0	61	70	130	8.2	20	S
tert-Butylbenzene		108	ug/L	5.0	108	70	130	3.8	20	
Tetrachloroethene		99.2	ug/L	5.0	99	70	130	0.0	20	
Toluene		104	ug/L	5.0	104	70	130	0.8	20	
trans-1,2-Dichloroethene		126	ug/L	5.0	126	70	130	3.2	20	
trans-1,3-Dichloropropene		112	ug/L	5.0	112	70	130	0.4	20	
Trichloroethene		104	ug/L	5.0	104	70	130	2.3	20	
Trichlorofluoromethane		110	ug/L	5.0	110	70	130	1.5	20	
Vinyl chloride		113	ug/L	5.0	113	70	130	1.4	20	
Surr: Dibromofluoromethane				0.50	109	80	120	0.0	10	
Surr: p-Bromofluorobenzene				0.50	102	80	120	0.0	10	
Surr: Toluene-d8				0.50	104	80	120	0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Amy Dahl
Project: Tracy Dahl

Report Date: 02/11/11
Work Order: C11020158

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8015M								Analytical Run: B_R160951		
Sample ID: CCV		Continuing Calibration Verification Standard						02/09/11 08:53		
Methane		970	ppm	2.0	97	85	115			
Sample ID: CCV		Continuing Calibration Verification Standard						02/09/11 08:15		
Methane		970	ppm	2.0	97	85	115			
Method: SW8015M								Batch: B_R160951		
Sample ID: C11020158-001H		Sample Duplicate				Run: SUB-B160951		02/09/11 08:49		
Methane		ND	mg/L	0.0010					20	
Sample ID: MBLK		Method Blank				Run: SUB-B160951		02/09/11 08:37		
Methane		ND	ppm	2.0						
Sample ID: LCS		Laboratory Control Sample				Run: SUB-B160951		02/09/11 08:31		
Methane		97	ppm	2.0	97	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist



C11020158

Amy Dahl

Login completed by: Halley Ackerman

Date Received: 2/4/2011

Reviewed by: BL2000\tedwards

Received by: em

Reviewed Date: 2/4/2011

Carrier name: NDA

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	1°C On Ice		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Contact and Corrective Action Comments:

Samples for dissolved metals were subsampled, filtered and preserved with 2 mL HNO3 in lab upon receipt to pH <2.



Chain of Custody and Analytical Request Record

Page ____ of ____

Company Name: WATER WORKS PLUS		Project Name, PWS, Permit, Etc. TRACY DAHL		Sample Origin State: COLD		EPA/State Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: 20004 ASPEN ROSE DR, WESTON, CO 81091		Contact Name: TRACY DAHL		Phone/Fax:		Sampler: (Please Print) FAED BAROS	
Invoice Address: 14218 Switchback Rd., WESTON, CO 81091		Invoice Contact & Phone: TRACY DAHL 719-859-4484		Purchase Order: 32463		Quote/Bottle Order:	
Special Report/Formats: <input type="checkbox"/> DW <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/MWTP Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC		ANALYSIS REQUESTED		SEE ATTACHED		Comments: Standard Turnaround (TAT)	
Number of Containers Sample Type: A W S V B O DW Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water		MATRIX		Collection Date		Collection Time	
1		WELL HEAD		2/3/11		11:30	
2		TRP BLANK C134					
3							
4							
5							
6							
7							
8							
9							
10							
Custody Record MUST be Signed		Relinquished by (print): FAED BAROS		Date/Time: 2/3/11 - 12:30		Signature: <i>[Signature]</i>	
Sample Disposal:		Return to Client:		Received by (print):		Date/Time:	
In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.		Lab Disposal: X		Received by (print):		Date/Time:	
				Received by Laboratory: <i>[Signature]</i>		Date/Time: 2/4/11 8:34	

LABORATORY USE ONLY

Shipped by: **NDA**
Cooler ID(s): **C3457**
Receipt Temp: _____ °C
On Ice: ☒ N
Custody Seal
On Bottle: ☒ N
On Cooler: ☒ N
Intact: ☒ N
Signature Match: ☒ N

STRUCTURED CHARACTERISTICS OF SEDIMENT -
Send to mineral lab for gray
deformation. Want to see if there is any
silica present used in hydraulic
fracturing present in the sample



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Analytical Excellence Since 1852

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 888-886-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-888-2218

BOTTLE ORDER 32463



SHIPPED TO: Water Works Plus

Contact: Fred Baros
20004 Aspen Rose Dr
Weston CO 81091
Phone: (719) 859-1148
Project:

Order Created by: Tessa Parke
Shipped From: Casper, WY
Ship Date: 1/27/2011
VIA: Ground

Bottle Size/Type	Bottles Per Samp	Method	Tests	Critical Hold Time	Preservative	Notes	Num of Samp
500 mL Plastic	1	A4500 S-D	Sulfide, Methylene Blue Colorimetric		<input checked="" type="checkbox"/> ZnAc	Report as H2S	1
		A4500 S-D	Sulfide, Methylene Blue Colorimetric		<input checked="" type="checkbox"/> NaOH		
250 mL Plastic	1	E200.7_8	Metals by ICP/ICPMS, Total		<input checked="" type="checkbox"/> HNO3		1
		E245.1	Mercury, Total				
500 mL Plastic	1	E353.2	Nitrogen, Nitrate + Nitrite		<input type="checkbox"/> H2SO4		1
		E353.2	Nitrogen, Nitrate as N				
40ML-CG-VOA-HCL-AA	3	E524.2	E524.2 SDWA VOCs				1
250 mL Plastic	1	E200.7_8	Metals by ICP/ICPMS, Dissolved				1
		-	Sample Filtering	48 hrs			
		A2340 B	Hardness				
1 Liter Plastic	1	A2320 B	Alkalinity				1
		A4500-F C	Fluoride				
		E300.0	E300.0 Anions				
		A4500-NO2 B	Nitrogen, Nitrite	48 hrs			
		A4500-H B	pH				
		A2540 C	Solids, Total Dissolved				
		A2130 B	Turbidity	48 hrs			
100 mL Plastic Sterile	1	A9223 B	Bacteria, SDWA	30 hrs			1
40 mL Clear Glass VOA	3	SW8015M	Methane		<input type="checkbox"/> H2SO4	Zero headspace	1

1 of 2

100 mL Plastic Sterile	1	SLYM-BART	Slime		Additional request	1
		IRB-BART	Bacteria, Iron Related			
Trip Blank 3) 40ML-CG-VOA-HCL	1	SUPPLIES	Supplies			1

☒ HNO₃ - Nitric Acid
 ☐ H₂SO₄ - Sulfuric Acid
 ☒ NaOH - Sodium Hydroxide
☒ ZnAc - Zinc Acetate
 ☒ HCl - Hydrochloric Acid
 ☐ H₃PO₄ - Phosphoric Acid

We strongly suggest that the samples are shipped the same day as they are collected.

Material Safety Data Sheets(MSDS) Available @ EnergyLab.com ->Services -> MSDS Sheets

Corrosive Chemicals: Nitric, Sulfuric, Phosphoric, Hydrochloric Acids and Sodium Hydroxide. Zinc Acetate is a skin irritant.

Subcontracting of sample analyses to an outside laboratory may be required. If so, Energy Laboratories will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.