



Inorganics Case Narrative

COGCC

Burkhart -- 25087038

Work Order Number: 1202226

1. This report consists of 1 water sample.
2. The sample was received cool and intact by ALS on 02/20/12.
3. The sample was prepared for analysis based on Methods for the Chemical Analysis of Waters and Wastes (MCAWW), May 1994 procedures and Environmental Monitoring Systems Laboratory (EMSL) Rev 2.1 procedures.

The analysis of nitrate/nitrite as N by 353.2 was cancelled due to the bottles being left out of the cooler overnight. Analysis of nitrate as N and nitrite as N by 300.0 was performed on the ion chromatograph at the client's approval.

4. The sample was analyzed following MCAWW and EMSL procedures for the following methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Alkalinity	310.1	1106 Rev 10
Bicarbonate	310.1	1106 Rev 10
Carbonate	310.1	1106 Rev 10
pH	150.1	1126 Rev 18
Specific conductance	120.1	1128 Rev 10
TDS	160.1	1101 Rev 11
Chloride	300.0 Revision 2.1	1113 Rev 12
Fluoride	300.0 Revision 2.1	1113 Rev 12
Nitrate as N	300.0 Revision 2.1	1113 Rev 12
Nitrite as N	300.0 Revision 2.1	1113 Rev 12
Sulfate	300.0 Revision 2.1	1113 Rev 12

5. All standards and solutions were used within their recommended shelf life.
6. The sample was prepared and analyzed within the established hold time for each analysis.

All in house quality control procedures were followed, as described below.



7. General quality control procedures.

- A preparation (method) blank and laboratory control sample (LCS) were prepared and analyzed with the samples in each applicable preparation batch. There were not more than 20 samples in each preparation batch.
- The method blank associated with each applicable batch was below the reporting limit for the requested analytes with the exception of chloride. The associated sample contained more than ten times the concentration of chloride that was detected in the blank.
- The LCS was within the acceptance limits for each applicable analysis.
- All initial and continuing calibration blanks (ICB/CCB) associated with each applicable analytical batch were below the reporting limit for the requested analytes with the exception of chloride. The sample bracketed by this CCB contained more than ten times the concentration of chloride that was detected in the CCB.
- All initial and continuing calibration verifications (ICV/CCV) associated with each applicable analytical batch were within the acceptance criteria for the requested analytes.

8. Matrix specific quality control procedures.

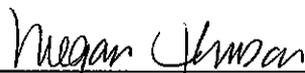
Per method requirements, matrix QC was performed for each analysis. Since a sample from this order number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.

9. It was necessary to dilute the sample in order to bring the sulfate concentration into the analytical range of the ion chromatograph (IC).

Reduced aliquots were taken of the sample for the alkalinity, bicarbonate, and carbonate analysis. Reporting limits were elevated accordingly.

10. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in SOP 939 Revision 3.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.



Megan Johnson
Inorganics Primary Data Reviewer

2/28/12
Date



Inorganics Final Data Reviewer

2/28/12
Date



Inorganic Data Reporting Qualifiers

The following qualifiers are used by the laboratory when reporting results of inorganic analyses.

- Concentration qualifier -- If the analyte was analyzed for but not detected a “U” is entered.
- QC qualifier -- Specified entries and their meanings are as follows:
 - N - Spiked sample recovery not within control limits.
 - * - Duplicate analysis (relative percent difference) not within control limits.
 - Z - Calibration spike recovery not within control limits.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1202226

Client Name: COGCC

Client Project Name: Burkhart

Client Project Number: 25087038

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Burkhart 1/#200340214	1202226-1		WATER	20-Feb-12	12:00



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1202226

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DISPOSAL Lab Return to Client

DATE 2/20/12
TURNAROUND STD

SAMPLER SITE ID
EDD FORMAT
PURCHASE ORDER
BILL TO COMPANY
INVOICE ATTN TO
ADDRESS
CITY / STATE / ZIP
PHONE
FAX
E-MAIL

PROJECT NAME *Birkbeck, Burkhardt, Olson*
PROJECT NO. *25087038*
COMPANY NAME *Terracon Consultants*
SEND REPORT TO *John Axelsson / Amy Wolf*
ADDRESS *10625 W 170th Ave, Littleton, CO 80120*
CITY / STATE / ZIP
PHONE *303-983-3300*
FAX
E-MAIL *Jc.dellaport@terracon.com*

Signature: *Ashley K. Byrne*

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
	<i>Birkbeck I / #200340417</i>	<i>GW</i>	<i>2/20/12</i>	<i>935</i>	<i>10</i>	<i>✓</i>	<i>✓</i>
①	<i>Burkhardt I / #20034024</i>	<i>---</i>	<i>---</i>	<i>1200</i>	<i>10</i>	<i>✓</i>	<i>✓</i>
	<i>Olson I / #200340417</i>	<i>---</i>	<i>---</i>	<i>1500</i>	<i>10</i>	<i>✓</i>	<i>✓</i>

Analysis/Actions
B TEX
TPH - GLO & DRO
Mercury
EC, TDS, PH

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	<i>[Signature]</i>	<i>Ashley K. Byrne</i>	<i>2/20/12</i>	<i>1700</i>
RELINQUISHED BY	<i>[Signature]</i>	<i>John Axelsson</i>	<i>2-20-12</i>	<i>1700</i>
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

QC PACKAGE (check below)
<input type="checkbox"/> LEVEL II (Standard QC)
<input type="checkbox"/> LEVEL III (Std QC + forms)
<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)

Comments: *Please include sulfate, nitrate/nitrite w/ Total N*

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Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCC

Workorder No: 1202226

Project Manager: AW

Initials: CDT Date: 2-20-12

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	<input checked="" type="radio"/> NONE	YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible ?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	<input checked="" type="radio"/> DROP OFF	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous non-preserved samples pH 4-9 ?	N/A	<input checked="" type="radio"/> YES	NO
10. Is there sufficient sample for the requested analyses?		YES	<input checked="" type="radio"/> NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: _____ < green pea _____ > green pea	N/A	<input checked="" type="radio"/> YES	NO
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of residual chlorine? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples shipped on ice?		<input checked="" type="radio"/> YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 <input checked="" type="radio"/> #4		RAD ONLY	<input checked="" type="radio"/> YES
Cooler #: <u>1</u>			
Temperature (°C): <u>2.4</u>			
No. of custody seals on cooler: <u>0</u>			
External µR/hr reading: <u>NA</u>			
Background µR/hr reading: <u>NA</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / <input checked="" type="radio"/> NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

RECEIVED 6 TOTAL UOA VIALS, SO ASSIGNED 2 FOR EACH ANALYSIS.

2/22/12: cancelled NO2/NO3 by 353.2 due to samples bottles being left out of cooler overnight. Replaced analysis with 300.0 NO2 and 300.0 NO3.

If applicable, was the client contacted? YES / NO / NA Contact: John Axelson ^{aw} _{2/22/12} Date/Time: 2/22/12

Project Manager Signature / Date: C. Wolf 2/21/12

*IR Gun #2: Oakton, SN 29922500201-0066

*IR Gun #4: Oakton, SN 2372220101-0002

BICARBONATE AS CaCO3

Method EPA310.1

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: COGCC
Client Project ID: Burkhart 25087038
Work Order Number: 1202226
Reporting Basis: As Received
Prep Method: NONE
Analyst: Jason McNall
Final Volume: 100 ml
Matrix: WATER
Result Units: MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
Burkhart 1/#200340214	1202226-1	02/20/2012	02/23/2012	02/23/2012	N/A	1	250	20		25 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202226-1*

CARBONATE AS CaCO3

Method EPA310.1

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: COGCC
Client Project ID: Burkhart 25087038
Work Order Number: 1202226
Reporting Basis: As Received
Prep Method: NONE
Analyst: Jason McNall
Final Volume: 100 ml
Matrix: WATER
Result Units: MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
Burkhart 1/#200340214	1202226-1	02/20/2012	02/23/2012	02/23/2012	N/A	1	20	20	U	25 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202226-1*

TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: COGCC
Client Project ID: Burkhart 25087038
Work Order Number: 1202226
Reporting Basis: As Received
Prep Method: NONE
Analyst: Jason McNall
Final Volume: 100 ml
Matrix: WATER
Result Units: MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
Burkhart 1/#200340214	1202226-1	02/20/2012	02/23/2012	02/23/2012	N/A	1	250	20		25 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202226-1*

pH

Method EPA150.1

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202226

Client Name: COGCC

ClientProject ID: Burkhart 25087038

Field ID:	Burkhart 1/#200340214
Lab ID:	1202226-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 20-Feb-12

Date Extracted: 23-Feb-12

Date Analyzed: 23-Feb-12

Prep Method: NONE

Prep Batch: PH120223-1

QCBatchID: PH120223-1-1

Run ID: pH120223-1a

Cleanup: NONE

Basis: As Received

File Name:

Analyst: Jason McNal

Sample Aliquot: 20 ML

Final Volume: 20 ML

Result Units: pH

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-29-7	PH AnalysisTime: 11:00	1	7.28	0.1		

Data Package ID: *ph1202226-1*

Specific Conductance in Water

Method EPA120.1

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202226

Client Name: COGCC

ClientProject ID: Burkhart 25087038

Field ID: Burkhart 1/#200340214	Sample Matrix: WATER	Prep Batch: SC120223-1	Analyst: Jason McNal
Lab ID: 1202226-1	% Moisture: N/A	QCBatchID: SC120223-1-1	Sample Aliquot: 45 ML
	Date Collected: 20-Feb-12	Run ID: sc120223-1a	Final Volume: 45 ML
	Date Extracted: 23-Feb-12	Cleanup: NONE	Result Units: umhos/cm
	Date Analyzed: 23-Feb-12	Basis: As Received	Clean DF: 1
	Prep Method: NONE	File Name:	

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-34-4	SPECIFIC CONDUCTIVITY AnalysisTime: 10:30	1	781	1		

Data Package ID: sc1202226-1

Total Dissolved Solids

Method EPA160.1

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202226

Client Name: COGCC

ClientProject ID: Burkhart 25087038

Field ID:	Burkhart 1/#200340214
Lab ID:	1202226-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 20-Feb-12

Date Extracted: 21-Feb-12

Date Analyzed: 22-Feb-12

Prep Method: METHOD

Prep Batch: TD120221-1

QCBatchID: TD120221-1-1

Run ID: td120222-1a

Cleanup: NONE

Basis: As Received

File Name: Manual Entry

Analyst: Jason McNal

Sample Aliquot: 100 ML

Final Volume: 100 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-33-3	TOTAL DISSOLVED SOLIDS	1	520	20		

Data Package ID: *td1202226-1*

Ion Chromatography

Method EPA300.0 Revision 2.1

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202226

Client Name: COGCC

ClientProject ID: Burkhart 25087038

Field ID:	Burkhart 1/#200340214
Lab ID:	1202226-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 20-Feb-12

Date Extracted: 21-Feb-12

Date Analyzed: 21-Feb-12

Prep Method: NONE

Prep Batch: IC120221-1

QCBatchID: IC120221-1-1

Run ID: IC120221-1A1

Cleanup: NONE

Basis: As Received

File Name: 20221_037.DXD

Analyst: Eric Allen Lin

Sample Aliquot: 5 ML

Final Volume: 5 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
16984-48-8	FLUORIDE AnalysisTime: 16:16	1	0.68	0.1		
16887-00-6	CHLORIDE AnalysisTime: 16:16	1	12	0.2		
14797-65-0	NITRITE AS N AnalysisTime: 16:16	1	0.1	0.1	U	
14797-55-8	NITRATE AS N AnalysisTime: 16:16	1	0.2	0.2	U	
14808-79-8	SULFATE AnalysisTime: 17:22	10	150	10		

Data Package ID: ic1202226-1

BICARBONATE AS CaCO3

Method EPA310.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202226

Client Name: COGCC

ClientProject ID: Burkhart 25087038

Lab ID: AK120223-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK120223-1

QCBatchID: AK120223-1-1

Run ID: ak120223-1a

Cleanup: NONE

Basis: N/A

Sample Aliquot: 100 ml

Final Volume: 100 ml

Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
AK120223-1MB	2/23/2012	02/23/2012	N/A	1	5	5	U

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: ak1202226-1

Date Printed: Monday, February 27, 2012

ALS Environmental -- FC

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CARBONATE AS CaCO3

Method EPA310.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202226

Client Name: COGCC

ClientProject ID: Burkhart 25087038

Lab ID: AK120223-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK120223-1

QCBatchID: AK120223-1-1

Run ID: ak120223-1a

Cleanup: NONE

Basis: N/A

Sample Aliquot: 100 ml

Final Volume: 100 ml

Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
AK120223-1MB	2/23/2012	02/23/2012	N/A	1	5	5	U

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: ak1202226-1

Date Printed: Monday, February 27, 2012

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TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202226

Client Name: COGCC

ClientProject ID: Burkhart 25087038

Lab ID: AK120223-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK120223-1

QCBatchID: AK120223-1-1

Run ID: ak120223-1a

Cleanup: NONE

Basis: N/A

Sample Aliquot: 100 ml

Final Volume: 100 ml

Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
AK120223-1MB	2/23/2012	02/23/2012	N/A	1	5	5	U

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: ak1202226-1

Date Printed: Monday, February 27, 2012

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TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1202226

Client Name: COGCC

ClientProject ID: Burkhart 25087038

Lab ID: AK120223-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/23/2012

Date Analyzed: 02/23/2012

Prep Batch: AK120223-1

QCBatchID: AK120223-1-1

Run ID: ak120223-1a

Cleanup: NONE

Basis: N/A

Sample Aliquot: 100 ml

Final Volume: 100 ml

Result Units: MG/L

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
	TOTAL ALKALINITY AS CaCO3	100	99.1	5		99	85 - 115

Data Package ID: ak1202226-1

Date Printed: Monday, February 27, 2012

ALS Environmental -- FC

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Total Dissolved Solids

Method EPA160.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202226

Client Name: COGCC

ClientProject ID: Burkhart 25087038

Lab ID: TD120221-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 21-Feb-12

Date Analyzed: 22-Feb-12

Prep Method: METHOD

Prep Batch: TD120221-1

QCBatchID: TD120221-1-1

Run ID: td120222-1a

Cleanup: NONE

Basis: N/A

File Name: Manual Entry

Sample Aliquot: 100 ml

Final Volume: 100 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-33-3	TOTAL DISSOLVED SOLIDS	1	20	20	U	

Data Package ID: *td1202226-1*

Total Dissolved Solids

Method EPA160.1

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1202226

Client Name: COGCC

ClientProject ID: Burkhart 25087038

Lab ID: TD120221-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/21/2012

Date Analyzed: 02/22/2012

Prep Method: METHOD

Prep Batch: TD120221-1

QCBatchID: TD120221-1-1

Run ID: td120222-1a

Cleanup: NONE

Basis: N/A

File Name: Manual Entry

Sample Aliquot: 100 ml

Final Volume: 100 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
10-33-3	TOTAL DISSOLVED SOLIDS	400	418	20		105	85 - 115%

Data Package ID: *td1202226-1*

Date Printed: Monday, February 27, 2012

ALS Environmental -- FC

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Ion Chromatography

Method EPA300.0 Revision 2.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202226

Client Name: COGCC

ClientProject ID: Burkhart 25087038

Lab ID: IC120217-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 21-Feb-12

Date Analyzed: 21-Feb-12

Prep Method: NONE

Prep Batch: IC120221-1

QCBatchID: IC120221-1-1

Run ID: IC120221-1A1

Cleanup: NONE

Basis: N/A

File Name: 20221_019.DXD

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
16984-48-8	FLUORIDE	1	0.1	0.1	U	
16887-00-6	CHLORIDE	1	0.26	0.2		
14797-65-0	NITRITE AS N	1	0.1	0.1	U	
14797-55-8	NITRATE AS N	1	0.2	0.2	U	
14808-79-8	SULFATE	1	1	1	U	

Data Package ID: ic1202226-1

Date Printed: Monday, February 27, 2012

ALS Environmental -- FC

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Ion Chromatography

Method EPA300.0 Revision 2.1

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1202226

Client Name: COGCC

ClientProject ID: Burkhart 25087038

Lab ID: IC120217-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/21/2012

Date Analyzed: 02/21/2012

Prep Method: NONE

Prep Batch: IC120221-1

QCBatchID: IC120221-1-1

Run ID: IC120221-1A1

Cleanup: NONE

Basis: N/A

File Name: 20221_020.DXD

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
16984-48-8	FLUORIDE	2.5	2.43	0.1		97	90 - 110%
16887-00-6	CHLORIDE	5	5.29	0.2		106	90 - 110%
14797-65-0	NITRITE AS N	2	2	0.1		100	90 - 110%
14797-55-8	NITRATE AS N	5	5	0.2		100	90 - 110%
14808-79-8	SULFATE	25	25.3	1		101	90 - 110%

Data Package ID: *ic1202226-1*

Date Printed: Monday, February 27, 2012

ALS Environmental -- FC

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