



ALS Paragon



Inorganics Case Narrative

Colorado Oil & Gas Conservation Commission

Complaint 200204502

Work Order Number: 0903157

1. This report consists of 1 water sample.
2. The sample was received cool and intact by ALS Paragon on 03/20/09.
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.
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 7
Bicarbonate	310.1	1106 Rev 7
Carbonate	310.1	1106 Rev 7
pH	150.1	1126 Rev 16
Specific conductance	120.1	1128 Rev 9
TDS	160.1	1101 Rev 10
Bromide	300.0	1113 Rev 11
Chloride	300.0	1113 Rev 11
Fluoride	300.0	1113 Rev 11
Nitrate as N	300.0	1113 Rev 11
Nitrite as N	300.0	1113 Rev 11
Sulfate	300.0	1113 Rev 11

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.

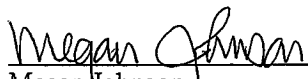
All in house quality control procedures were followed, as described below.

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. This indicates that no contaminants were introduced to the samples during preparation and analysis.
 - 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 CCB2 for chloride on 03/24/09. The samples 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. This indicates a valid calibration and stable instrument conditions.
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. 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 Paragon certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.


Megan Johnson
Inorganics Primary Data Reviewer

3/30/09
Date


Inorganics Final Data Reviewer

3/30/09
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 Paragon

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

Client Project Name: Complaint 200204502

Client Project Number:

Client PO Number: OE PHA 090000000004

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Pulsifer 090319	0903157-1		WATER	19-Mar-09	11:05

Project Name/No.: NER Sampler(s): C. Whitmore Turnaround (circle one) (Standard) or Rush (Due 14) Disposed Date 3/6/ or Return to Client

Report To: Peter Gintantus
Phone: 719-846-3091
Fax:
E-mail: peter.gintantus@state.co.us
Company: Colo. Oil & Gas Conservation Comm.
Address:
Complaints: 2455 PERMITS 2004502
VANALSTYN WW: 200204503

Circle method (right); provide additional information as needed (comments).

[illegible]

* Time Zone: EST CST MST PST Matrix Key: O = oil, S = soil, NS = non-soil solid, W = water, L = liquid, E = extract, F = filter

Comments:

Comments: Filter + preserve metals upon receipt
Animals - Br, Cl, F, Na, Na₂, S, U

$$200.7 = \text{Ba, Be, B, Ca, Cr, Cu, Fe, Li, Mn, Mg, Ni, K, Na, Sr, Zn}$$

700.6 = Sb, As, Cd, Pb, Mo, Se, Ag, Te, U

CONDITION OF SAMPLE UPON RECEIPT FORM

Paragon Analytics

Client: COGCCWorkorder No: 0903157Project Manager: AWInitials: LJO Date: 3/20/09

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?	NONE	<input checked="" type="radio"/> 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?	DROP OFF <input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES <input checked="" type="radio"/> 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?	<input checked="" type="radio"/> YES	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: <u> </u> < green pea <u> </u> > 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*: <input checked="" type="radio"/> #2 <input checked="" type="radio"/> #4 RAD ONLY	<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u>		
Temperature (°C): <u>2.2</u>		
No. of custody seals on cooler: <u>1</u>		
External µR/hr reading: <u>13</u>		
Background µR/hr reading: <u>11</u>		
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES <input checked="" type="radio"/> NO / NA (If no. see Form 008.)		

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

* Sample 1, the 1L amber for SVOC analysis listed no sample time.
 • The 500ml poly for metals analysis needs to be filtered and preserved in house.

If applicable, was the client contacted? YES / NO / NA Contact: Date/Time: Project Manager Signature / Date: 3/23/09

*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 Paragon

Client Name: Colorado Oil & Gas Conservation Commission

Client Project ID: Complaint 200204502

Work Order Number: 0903157

Final Volume: 100 ml

Reporting Basis: As Received

Matrix: WATER

Prep Method: NONE

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
Pulsifer 090319	0903157-1	03/19/2009	03/20/2009	03/20/2009	N/A	1	180	20		25 ml

Comments:

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

Data Package ID: *ak0903157-1*

Date Printed: Friday, March 27, 2009

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CARBONATE AS CaCO₃

Method EPA310.1

Sample Results

Lab Name: ALS Paragon
Client Name: Colorado Oil & Gas Conservation Commission
Client Project ID: Complaint 200204502
Work Order Number: 0903157
Reporting Basis: As Received
Prep Method: NONE
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
Pulsifer 090319	0903157-1	03/19/2009	03/20/2009	03/20/2009	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: ak0903157-1

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TOTAL ALKALINITY AS CaCO₃

Method EPA310.1

Sample Results

Lab Name: ALS Paragon
Client Name: Colorado Oil & Gas Conservation Commission
Client Project ID: Complaint 200204502
Work Order Number: 0903157
Reporting Basis: As Received
Prep Method: NONE
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
Pulsifer 090319	0903157-1	03/19/2009	03/20/2009	03/20/2009	N/A	1	180	20		25 ml

Comments:

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

Data Package ID: *ak0903157-1*

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pH

Method EPA150.1

Sample Results

Lab Name: ALS Paragon

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Field ID:	Pulsifer 090319
Lab ID:	0903157-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 19-Mar-09

Date Extracted: 23-Mar-09

Date Analyzed: 23-Mar-09

Prep Method: METHOD

Prep Batch: PH090323-1

QCBatchID: PH090323-1-1

Run ID: ph090323-1a

Cleanup: NONE

Basis: As Received

File Name:

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	1	8.15	0.1		

Data Package ID: *ph0903157-1*

Date Printed: Friday, March 27, 2009

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Specific Conductance in Water

Method EPA120.1

Sample Results

Lab Name: ALS Paragon

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Field ID:	Pulsifer 090319
Lab ID:	0903157-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 19-Mar-09

Date Extracted: 23-Mar-09

Date Analyzed: 23-Mar-09

Prep Method: METHOD

Prep Batch: SC090323-1

QCBatchID: SC090323-1-2

Run ID: sc090323-1a

Cleanup: NONE

Basis: As Received

File Name:

Sample Aliquot: 45 ml

Final Volume: 45 ml

Result Units: umhos/cm

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-34-4	SPECIFIC CONDUCTIVITY	1	402	1		

Data Package ID: sc0903157-1

Date Printed: Friday, March 27, 2009

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Total Dissolved Solids

Method EPA160.1

Sample Results

Lab Name: ALS Paragon

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Field ID:	Pulsifer 090319
Lab ID:	0903157-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 19-Mar-09

Date Extracted: 23-Mar-09

Date Analyzed: 24-Mar-09

Prep Method: METHOD

Prep Batch: TD090323-1

QCBatchID: TD090323-1-1

Run ID: td090324-1a

Cleanup: NONE

Basis: As Received

File Name: Manual Entry

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	250	20		

Data Package ID: *td0903157-1*

Date Printed: Friday, March 27, 2009

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Ion Chromatography

Method EPA300.0 Revision 2.1

Sample Results

Lab Name: ALS Paragon

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Field ID: Pulsifer 090319

Lab ID: 0903157-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 19-Mar-09

Date Extracted: 24-Mar-09

Date Analyzed: 24-Mar-09

Prep Method: NONE

Prep Batch: IC090324-1

QCBatchID: IC090324-1-1

Run ID: ic090324-1a

Cleanup: NONE

Basis: As Received

File Name: 90324_023.DXD

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	1	0.5	0.1		
16887-00-6	CHLORIDE	1	5.5	0.2		
14797-65-0	NITRITE AS N	1	0.1	0.1	U	
24959-67-9	BROMIDE	1	0.2	0.2	U	
14797-55-8	NITRATE AS N	1	0.2	0.2	U	
14808-79-8	SULFATE	1	49	1		

Data Package ID: *ic0903157-1*

Date Printed: Friday, March 27, 2009

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BICARBONATE AS CaCO₃

Method EPA310.1

Method Blank

Lab Name: ALS Paragon

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Lab ID: AK090320-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK090320-1

QCBatchID: AK090320-1-1

Run ID: ak090320-1a

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
AK090320-1MB	3/20/2009	03/20/2009	N/A	1	5	5	U

Comments:

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

Data Package ID: ak0903157-1

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CARBONATE AS CaCO₃

Method EPA310.1

Method Blank

Lab Name: ALS Paragon

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Lab ID: AK090320-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK090320-1

QCBatchID: AK090320-1-1

Run ID: ak090320-1a

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
AK090320-1MB	3/20/2009	03/20/2009	N/A	1	5	5	U

Comments:

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

Data Package ID: ak0903157-1

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TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Method Blank

Lab Name: ALS Paragon

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Lab ID: AK090320-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK090320-1

QCBatchID: AK090320-1-1

Run ID: ak090320-1a

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
AK090320-1MB	3/20/2009	03/20/2009	N/A	1	5	5	U

Comments:

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

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TOTAL ALKALINITY AS CaCO₃

Method EPA310.1

Laboratory Control Sample

Lab Name: ALS Paragon

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Lab ID: AK090320-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 03/20/2009

Date Analyzed: 03/20/2009

Prep Batch: AK090320-1

QCBatchID: AK090320-1-1

Run ID: ak090320-1a

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
11-43-8	TOTAL ALKALINITY AS CaCO ₃	100	101	5		100	85 - 115

Data Package ID: ak0903157-1

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Total Dissolved Solids

Method EPA160.1

Method Blank

Lab Name: ALS Paragon

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Lab ID: TD090323-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 23-Mar-09

Date Analyzed: 24-Mar-09

Prep Method: METHOD

Prep Batch: TD090323-1

QCBatchID: TD090323-1-1

Run ID: td090324-1a

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: *td0903157-1*

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Total Dissolved Solids

Method EPA160.1

Laboratory Control Sample

Lab Name: ALS Paragon

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Lab ID: TD090323-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 03/23/2009

Date Analyzed: 03/24/2009

Prep Method: METHOD

Prep Batch: TD090323-1

QCBatchID: TD090323-1-1

Run ID: td090324-1a

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	408	20		102	85 - 115%

Data Package ID: *td0903157-1*

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Ion Chromatography

Method EPA300.0 Revision 2.1

Method Blank

Lab Name: ALS Paragon

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Lab ID: IC090320-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 20-Mar-09

Date Analyzed: 20-Mar-09

Prep Method: NONE

Prep Batch: IC090320-1

QCBatchID: IC090320-1-1

Run ID: ic090320-1a

Cleanup: NONE

Basis: N/A

File Name: 90320_009.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
14797-65-0	NITRITE AS N	1	0.1	0.1	U	
24959-67-9	BROMIDE	1	0.2	0.2	U	
14797-55-8	NITRATE AS N	1	0.2	0.2	U	

Data Package ID: ic0903157-1

Date Printed: Friday, March 27, 2009

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Ion Chromatography

Method EPA300.0 Revision 2.1

Method Blank

Lab Name: ALS Paragon

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Lab ID: IC090324-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 24-Mar-09

Date Analyzed: 24-Mar-09

Prep Method: NONE

Prep Batch: IC090324-1

QCBatchID: IC090324-1-1

Run ID: ic090324-1a

Cleanup: NONE

Basis: N/A

File Name: 90324_013.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	0.2	0.2	U	
14808-79-8	SULFATE	1	1	1	U	

Data Package ID: ic0903157-1

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Ion Chromatography

Method EPA300.0 Revision 2.1

Laboratory Control Sample

Lab Name: ALS Paragon

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Lab ID: IC090320-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 03/20/2009

Date Analyzed: 03/20/2009

Prep Method: NONE

Prep Batch: IC090320-1

QCBatchID: IC090320-1-1

Run ID: ic090320-1a

Cleanup: NONE

Basis: N/A

File Name: 90320_010.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
14797-65-0	NITRITE AS N	2	1.99	0.1		99	90 - 110%
24959-67-9	BROMIDE	5	5.02	0.2		100	90 - 110%
14797-55-8	NITRATE AS N	5	4.89	0.2		98	90 - 110%

Data Package ID: ic0903157-1

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Ion Chromatography

Method EPA300.0

Laboratory Control Sample

Lab Name: Paragon Analytics

Work Order Number: 0903157

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204502

Lab ID: IC090324-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 03/24/2009

Date Analyzed: 03/24/2009

Prep Method: NONE

Prep Batch: IC090324-1

QCBatchID: IC090324-1-1

Run ID: ic090324-1a

Cleanup: NONE

Basis: N/A

File Name: 90324_014.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	2.45	0.1		98	90 - 110%
16887-00-6	CHLORIDE	5	5.24	0.2		105	90 - 110%
14808-79-8	SULFATE	25	25.2	1		101	90 - 110%

Data Package ID: ic0903157-1

Date Printed: Friday, March 27, 2009

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