

## WORK ORDER Summary

Evergreen Analytical, Inc.

09-2221

Rpt To: Bob Chesson

Email To: Robert.Chesson@state.co.us

Colorado Oil &amp; Gas Conservation

Comm.

1120 Lincoln St #801

Denver, CO 80203

(303) 894-2100

4/6/2009 12:48:54 PM

Client Project ID:

QC Level: LEVEL I+

Comments: Invoice in triplicate 6/30/08 to 6/30/09. EDD in COGCC format

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
09-2221-01A	Cole	Drinking Water	4/02/09 0000	4/02/09	ANIONS_W**^	300.0: DW Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	4/04/09
09-2221-01B	Cole	Drinking Water	4/02/09 0000	4/02/09	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	4/30/09
09-2221-01C	Cole	Drinking Water	4/02/09 0000	4/02/09	200.7_T*	200.7: Total Metals	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	9/29/09
09-2221-01D	Cole	Drinking Water	4/02/09 0000	4/02/09	200.7_D*	200.7: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	9/29/09
09-2221-01E	Cole	Drinking Water	4/02/09 0000	4/02/09	CARB/BICARB_W	Carbonate and Bicarbonate	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	4/16/09
09-2221-01F	Cole	Drinking Water	4/02/09 0000	4/02/09	8021_W*	8021: BTEX, MIBE	<input type="checkbox"/>	<input type="checkbox"/>	4/07/09	4/16/09
09-2221-01G	Cole	Drinking Water	4/02/09 0000	4/02/09	MEEP_W*	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	4/09/09
09-2221-01H	Cole	Drinking Water	4/02/09 0000	4/02/09	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	4/09/09
09-2221-02A	Alavazado	Drinking Water	4/02/09 0000	4/02/09	ANIONS_W**^	300.0: DW Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	4/04/09
09-2221-02B	Alavazado	Drinking Water	4/02/09 0000	4/02/09	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	4/30/09
09-2221-02C	Alavazado	Drinking Water	4/02/09 0000	4/02/09	200.7_T*	200.7: Total Metals	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	9/29/09
09-2221-02D	Alavazado	Drinking Water	4/02/09 0000	4/02/09	200.7_D*	200.7: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	9/29/09
09-2221-02E	Alavazado	Drinking Water	4/02/09 0000	4/02/09	CARB/BICARB_W	Carbonate and Bicarbonate	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	4/16/09
09-2221-02F	Alavazado	Drinking Water	4/02/09 0000	4/02/09	8021_W*	8021: BTEX, MIBE	<input type="checkbox"/>	<input type="checkbox"/>	4/07/09	4/16/09
09-2221-02G	Alavazado	Drinking Water	4/02/09 0000	4/02/09	MEEP_W*	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	4/09/09
09-2221-02H	Alavazado	Drinking Water	4/02/09 0000	4/02/09	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	4/16/09	4/09/09

Definitions: \* - Test Code has a Select List

## CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES AGREEMENT \*\*

Evergreen Analytical Laboratory

## CLIENT INFORMATION

Mail Original Report to:

COGCC

Quality Data on Time®

Attn: Robert Chesson

Address: 1120 Lincoln Street, Suite 801

City: Denver State: CO Zip: 80203

Tel #: 303-894-2100 Fax #: 303-894-2169 E-mail: Robert.Chesson@state.co.us

4036 Youngfield St.  
Wheat Ridge, Colorado 80033  
(303) 425-6021  
FAX (303) 425-6854  
(877) 737-4521  
e-mail: info@evergreenanalytical.com

REPORT ALSO BY ☐ FAX ☐ PDF ☐ EDD FAXED CONFIRMATION OF SAMPLE RECEIPT REQUIRED? ☐ YES

Mail Invoice to: Bob Chesson

Attn: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Tel #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Project ID #: \_\_\_\_\_

P.O. \_\_\_\_\_ Quote: 11351

Sampler: Chris Key (Tennison)

NOTE: Identify Known Hazards Below

SAMPLE IDENTIFICATION DATE SAMPLED TIME

Coke 4-03-09 11 1

Alvarado 4-03-09 11 1

No. of Containers

1) Drinking Water or 2) Discharge Water or 3) Ground Water (circle one)  
Soil / Solid / Air / Gas

Oil / Sludge / Wipe

MATRIX

ANALYSES (check analysis)

300.0 Anions by IC  
Fluoride  
200.7 Total Metals  
200.7 Dissolved Metals  
Carbonate and Bicarbonate  
8021  
RSK SOP-175M  
TDS

For Laboratory Use Only

WO. # 09-2321

BOF # 24203

C/S (O) 513 / 10

C/S (I) 513 / 10

Temp. °C 1.0 / ice ✓

Seals Present Y / N / NA

Samples Pres. Y / N / NA

Headspace Y / N / NA

By: J. L.

11

12

Pica

Sample Fraction

Does this analysis involve property transfer? ☐ Yes or ☒ No

Instructions:

\*\* Important Note: See reverse side hereof for terms and conditions.

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Report Results by: \_\_\_\_\_ (Date)\*

Standard 2 working weeks

UST Analyses per Fee Schedule

\* Rush: ☐ less than 24 hrs, 150% ☐ 1 - 2 work days, 100%☐ 3 - 5 work days, 50% ☐ 6 - 9 work days, 25%

\* Subject to surcharge &amp; exceptions noted in fee schedule.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Shirley</i>	4-03-09 / 4:45pm	<i>Robert</i>	4/21/ 4:45p				

**Evergreen Analytical, Inc.**

**Date:** 16-Apr-09

**Lab Order:** 09-2221

**Client Project ID**

## **CASE NARRATIVE**

### **SAMPLE RECEIVING**

Sample(s) were hand delivered to the laboratory by the client.

Custody seals were not present.

The temperature of the sample(s) upon arrival was 1.0°C.

Sample(s) were received in good condition, in the proper container, and within holding times.

Sample(s) were preserved properly.

VOC sample(s) were marked as preserved on the bottle labels.

VOC sample(s) were received with no headspace present. JD

### **QUALITY ASSURANCE (QA)**

Analyses performed on samples in this work order by EAL meet the requirements of the EAL Quality Assurance Program unless otherwise explained. Analyses of RCRA samples meet the requirements of NELAC and Utah Rule R444-14 unless otherwise explained. Analyses of discharge samples meet the requirements of 40 CFR Part 136 unless otherwise explained. JE

### **CLIENT SERVICES**

There are no anomalies to report. PM

### **GENERAL CHEMISTRY**

Method 300.0: The samples have high conductivity levels and high Chloride levels, which required dilution of the sample to avoid saturating the detector and to separate the Nitrite-N peak from the Chloride peak. This raised the reporting limit for Nitrite-N and Sulfate for sample Cole (09-2221-01) and raised reporting limit for Nitrate-N and Nitrite-N for sample Alavarado (-02). There are no other anomalies to report. JML/MM/JE

Method SM 4500-F C: Sample Alavarado (09-2221-02) has a Fluoride result of 4.2 mg/L, which exceeds the MCL of 4.0 mg/L for drinking water. There are no other anomalies to report. JK/MM/JE

### **METALS ANALYSIS**

Method E200.7: Barium was detected in the method blank (MB) at 0.0034 mg/L. This amount was not subtracted from the sample result. The sample results were greater than five times the MB concentration so no further action was needed. There are no other anomalies to report. SS/JE

### **GAS CHROMATOGRAPHY**

**Evergreen Analytical, Inc.**

**Date:** 16-Apr-09

**Lab Order:** 09-2221

**Client Project ID**

**CASE NARRATIVE**

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Method 8021\_W: There are no anomalies to report. JCC

Method RSK-175: There are no anomalies to report. VM

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# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862

(303) 425-6021

Client Sample ID: Cole  
 Client Project ID:  
 Date Collected: 4/2/09 0000  
 Date Received: 4/2/09

Lab Work Order 09-2221  
 Lab Sample ID: 09-2221-01  
 Sample Matrix: Drinking Water

## ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 4/3/09

Date Analyzed: 4/3/09 1259

Method Blank: MB 04/03/09

Dilution Factor: 5

Lab Fraction ID: 09-2221-01A

Analytes	CAS Number	Result	LQL	Units
Bromide	7647-15-6	1.3	0.25	mg/L
Nitrate-N		0.055	0.050	mg/L
Sulfate	7778-80-2	U	2.5	mg/L

Date Prepared: 4/3/09

Date Analyzed: 4/3/09 1725

Method Blank: MB 04/03/09

Dilution Factor: 25

Lab Fraction ID: 09-2221-01A

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	456	13	mg/L
Nitrite-N		U	0.10	mg/L
Nitrite+Nitrate-N		U	0.25	mg/L

  
 Analyst

  
 Approved

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 J - Indicates an estimated value when the compound is detected, but is below the LQL  
 S - Spike Recovery outside accepted limits  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
 LQL - Lower Quantitation Limit  
 Surr - Surrogate

Print Date: 4/5/09

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Alavarado  
Client Project ID:  
Date Collected: 4/2/09 0000  
Date Received: 4/2/09

Lab Work Order 09-2221  
Lab Sample ID: 09-2221-02  
Sample Matrix: Drinking Water

## ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 4/3/09  
Date Analyzed: 4/3/09 1738

Method Blank: MB 04/03/09

Dilution Factor: 1  
Lab Fraction ID: 09-2221-02A

Analytes	CAS Number	Result	LQL	Units
Bromide	7647-15-6	0.55	0.050	mg/L

Date Prepared: 4/3/09  
Date Analyzed: 4/3/09 1312

Method Blank: MB 04/03/09

Dilution Factor: 2  
Lab Fraction ID: 09-2221-02A

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	76.6	1.0	mg/L
Nitrite-N		U	0.0080	mg/L
Nitrate-N		U	0.020	mg/L
Nitrite+Nitrate-N		U	0.020	mg/L
Sulfate	7778-80-2	62.8	1.0	mg/L

  
Analyst

  
Approved

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Print Date: 4/5/09

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Cole  
Client Project ID:  
Date Collected: 4/2/09  
Date Received: 4/2/09

Lab Work Order: 09-2221  
Lab Sample ID: 09-2221-01  
Sample Matrix: Drinking Water

## DISSOLVED METALS

Method: E200.7, Rev. 4.4

Prep Method: E200.7/SW3010A

Date Prepared: 4/9/09  
Date Analyzed: 4/10/09

Lab File ID: 041009AM  
Method Blank: MB-18724

Dilution Factor: 1  
Lab Fraction ID: 09-2221-01D

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	9.27	0.387	mg/L
Magnesium	7439-95-4	2.30	0.150	mg/L
Potassium	7440-09-7	2.78	0.340	mg/L
Sodium	7440-23-5	490	0.400	mg/L

## TOTAL METALS

Method: E200.7, Rev. 4.4

Prep Method: E200.7, Rev. 4.4

Date Prepared: 4/6/09  
Date Analyzed: 4/7/09

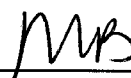
Lab File ID: 040709AM  
Method Blank: MB-18677

Dilution Factor: 1  
Lab Fraction ID: 09-2221-01C

Analytes	CAS Number	Result	LQL	Units
Arsenic	7440-38-2	U	0.0500	mg/L
Barium	7440-39-3	0.200 B	0.00200	mg/L
Cadmium	7440-43-9	U	0.0100	mg/L
Chromium	7440-47-3	U	0.0100	mg/L
Iron	7439-89-6	0.356	0.0700	mg/L
Lead	7439-92-1	U	0.0730	mg/L
Manganese	7439-96-5	0.00805	0.00500	mg/L
Selenium	7782-49-2	U	0.100	mg/L



Analyst



Approved

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U - Compound analyzed for but not detected  
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**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 4/14/2009

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Alavarado  
Client Project ID:  
Date Collected: 4/2/09  
Date Received: 4/2/09

Lab Work Order: 09-2221  
Lab Sample ID: 09-2221-02  
Sample Matrix: Drinking Water

## DISSOLVED METALS

Method: E200.7, Rev. 4.4

Prep Method: E200.7/SW3010A

Date Prepared: 4/9/09  
Date Analyzed: 4/10/09

Lab File ID: 041009AM  
Method Blank: MB-18724

Dilution Factor: 1  
Lab Fraction ID: 09-2221-02D

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	9.50	0.387	mg/L
Magnesium	7439-95-4	2.09	0.150	mg/L
Potassium	7440-09-7	2.23	0.340	mg/L
Sodium	7440-23-5	300	0.400	mg/L

## TOTAL METALS

Method: E200.7, Rev. 4.4

Prep Method: E200.7, Rev. 4.4

Date Prepared: 4/6/09  
Date Analyzed: 4/7/09

Lab File ID: 040709AM  
Method Blank: MB-18677

Dilution Factor: 1  
Lab Fraction ID: 09-2221-02C

Analytes	CAS Number	Result	LQL	Units
Arsenic	7440-38-2	U	0.0500	mg/L
Barium	7440-39-3	0.105 B	0.00200	mg/L
Cadmium	7440-43-9	U	0.0100	mg/L
Chromium	7440-47-3	U	0.0100	mg/L
Iron	7439-89-6	0.0735	0.0700	mg/L
Lead	7439-92-1	U	0.0730	mg/L
Manganese	7439-96-5	U	0.00500	mg/L
Selenium	7782-49-2	U	0.100	mg/L

  
Analyst

  
Approved

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LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 4/14/2009



# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID Cole  
Client Project ID  
Date Collected: 4/2/09  
Date Received: 4/2/09

Lab Work Order 09-2221  
Lab Sample ID: 09-2221-01  
Sample Matrix: Drinking Water

## CARBONATE AND BICARBONATE

Method: SM2320 B

Prep Method:

Date Prepared: 4/6/09  
Date Analyzed: 4/6/09

Lab File ID: 76  
Method Blank: MBLK 04/06/09

Dilution Factor: 1  
Lab Fraction ID: 09-2221-01E

Analytes	CAS Number	Result	LQL	Units
Bicarbonate		595	5.0	mg/L
Carbonate		U	5.0	mg/L

## FLUORIDE

Method: SM 4500-F C

Prep Method:

Date Prepared: 4/7/09  
Date Analyzed: 4/7/09

Lab File ID: 11  
Method Blank: MBLK 4/7/09

Dilution Factor: 1  
Lab Fraction ID: 09-2221-01B

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	2.8	0.20	mg/L

## TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

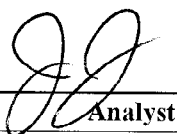
Prep Method:

Date Prepared: 4/6/09  
Date Analyzed: 4/6/09

Lab File ID: 10  
Method Blank: MBLK 4/6/09

Dilution Factor: 1  
Lab Fraction ID: 09-2221-01H

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		1250	10.0	mg/L



Analyst



Approved

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**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 4/9/2009

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID Alavarado  
Client Project ID  
Date Collected: 4/2/09  
Date Received: 4/2/09

Lab Work Order 09-2221  
Lab Sample ID: 09-2221-02  
Sample Matrix: Drinking Water

## CARBONATE AND BICARBONATE

Method: SM2320 B

Prep Method:

Date Prepared: 4/6/09  
Date Analyzed: 4/6/09

Lab File ID: 77  
Method Blank: MBLK 04/06/09

Dilution Factor: 1  
Lab Fraction ID: 09-2221-02E

Analytes	CAS Number	Result	LQL	Units
Bicarbonate		588	5.0	mg/L
Carbonate		U	5.0	mg/L

## FLUORIDE

Method: SM 4500-F C

Prep Method:

Date Prepared: 4/7/09  
Date Analyzed: 4/7/09

Lab File ID: 12  
Method Blank: MBLK 4/7/09

Dilution Factor: 1  
Lab Fraction ID: 09-2221-02B

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	4.2 *	0.20	mg/L

## TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

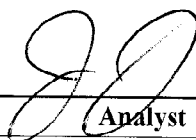
Prep Method:

Date Prepared: 4/6/09  
Date Analyzed: 4/6/09

Lab File ID: 11  
Method Blank: MBLK 4/6/09

Dilution Factor: 1  
Lab Fraction ID: 09-2221-02H

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		768	10.0	mg/L



Analyst



Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
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LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 4/9/2009

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

**Client Sample ID:** Cole  
**Client Project ID:**  
**Date Collected:** 4/2/2009  
**Date Received:** 4/2/2009

**Lab Work Order** 09-2221  
**Lab Sample ID:** 09-2221-01F  
**Sample Matrix:** Drinking Water

**AROMATIC VOLATILE ORGANICS**

**Method: SW8021B**

**Prep Method: SW5030B**

**Date Prepared:** 4/3/2009

**Lab File ID:** TVB40403\005R

**Dilution Factor:** 1

**Date Analyzed:** 4/3/2009

**Method Blank:** MB4040309

Analytes	CAS Number	Result	LQL	Units
Methyl-t-butyl ether	1634-04-4	U	5.0	µg/L
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	64	<b>QC Limits:</b> 60-140	%REC

  
 Analyst

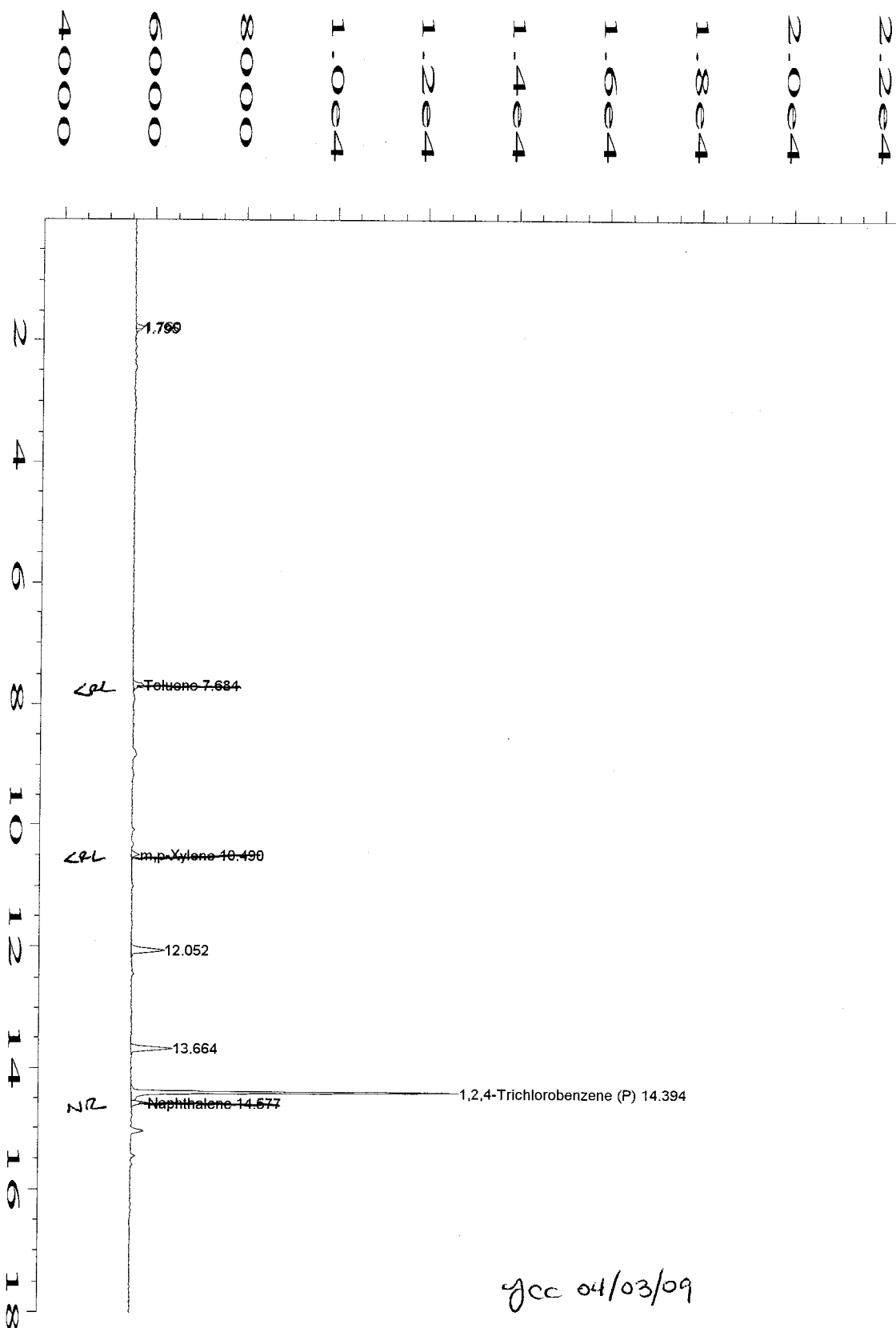
  
 Approved

**Notes:** Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

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Print Date: 4/6/2009



gcc 04/03/09

Data File Name	: C:\HPCHEM\1\DATA\TVB40403\005R0101.D	Page Number	: 1
Operator	: Jennifer Chapin	Vial Number	: 5
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 09-2221-01F	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40331.MTH
Acquired on	: 03 Apr 09 11:45 AM	Analysis Method	: BS40327.MTH
Report Created on:	03 Apr 09 12:04 PM	Sample Amount	: 0
Last Recalib on	: 30 MAR 09 10:23 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

**Client Sample ID:** Alavarado  
**Client Project ID:**  
**Date Collected:** 4/2/2009  
**Date Received:** 4/2/2009

**Lab Work Order** 09-2221  
**Lab Sample ID:** 09-2221-02F  
**Sample Matrix:** Drinking Water

**AROMATIC VOLATILE ORGANICS**

**Method: SW8021B**

**Prep Method: SW5030B**

**Date Prepared:** 4/3/2009

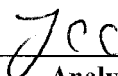
**Lab File ID:** TVB40403\009R

**Dilution Factor:** 1

**Date Analyzed:** 4/3/2009

**Method Blank:** MB4040309

Analytes	CAS Number	Result	LQL	Units
Methyl-t-butyl ether	1634-04-4	U	5.0	µg/L
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	64	<b>QC Limits:</b> 60-140	%REC

  
 Analyst

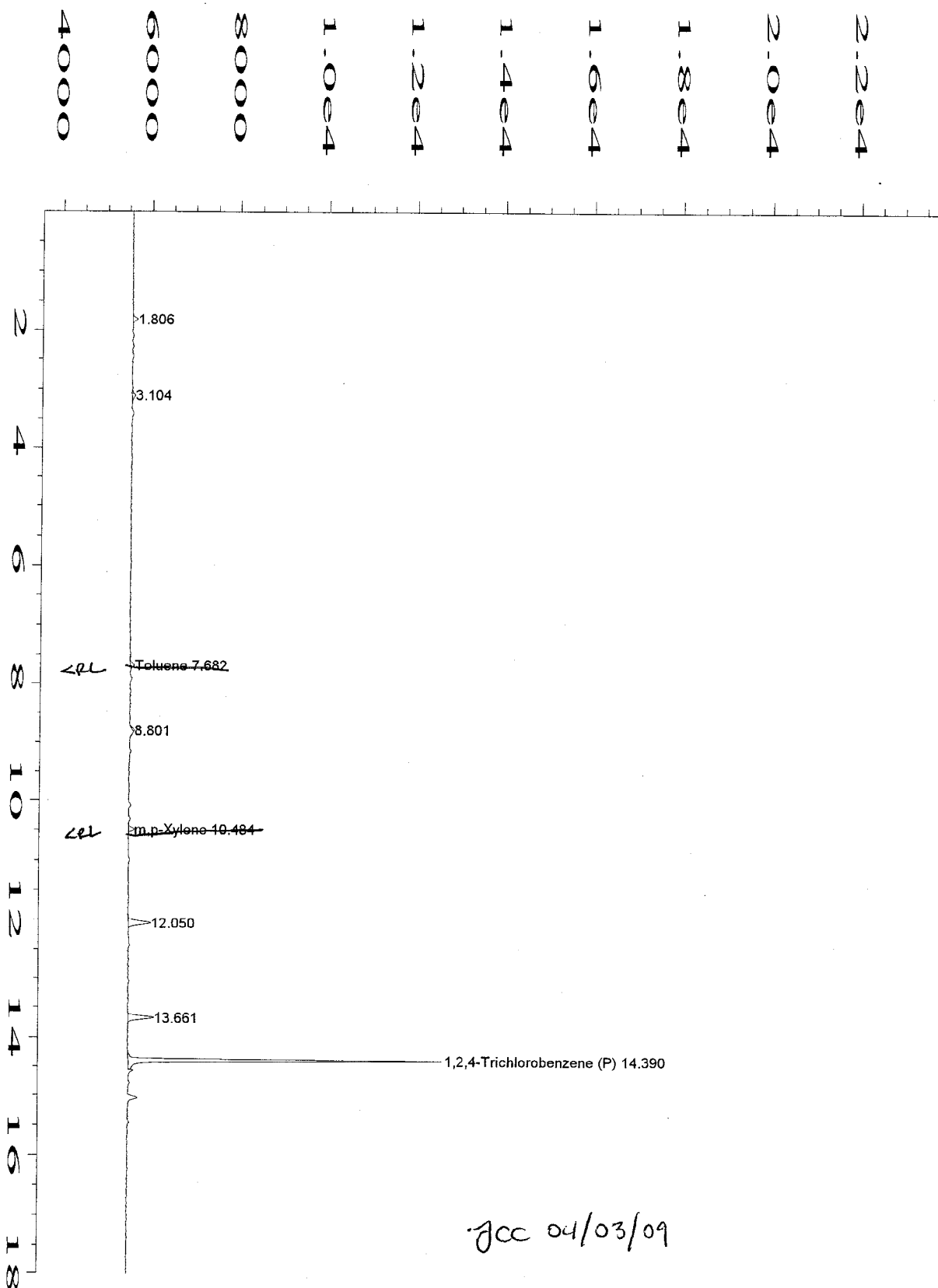
  
 Approved

**Notes:** Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
 E - Extrapolated value. Value exceeds calibration range  
 H - Sample analysis exceeded analytical holding time  
 J - Indicates an estimated value when the compound is detected, but is below the LQL  
 S - Spike Recovery outside accepted limits  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
 Surr - Surrogate

Print Date: 4/6/2009



JCC 04/03/09

Data File Name	: C:\HPCHEM\1\DATA\TVB40403\009R0101.D	Page Number	: 1
Operator	: Jennifer Chapin	Vial Number	: 9
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 09-2221-02F	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40331.MTH
Acquired on	: 03 Apr 09 02:04 PM	Analysis Method	: BS40327.MTH
Report Created on:	03 Apr 09 02:23 PM	Sample Amount	: 0
Last Recalib on	: 30 MAR 09 10:23 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

Client Project ID

 Lab Order: 09-2221  
 Units: mg/L

**RSKSOP-175M Headspace**

Method: RSKSOP175M

Methane

Prep Method: RSKSOP175M

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
09-2221-01G	Cole	Drinking Water	4/2/09	4/2/09	4/7/09	4/7/09	12	0.040	50
09-2221-02G	Alvarado	Drinking Water	4/2/09	4/2/09	4/7/09	4/7/09	10	0.040	50

Comments:

 VM  
 Analyst

  
 Approved

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL

H - Sample analysis exceeded analytical holding time

U - Compound analyzed for but not detected

X - See case narrative

\* Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor

LQL - Lower Quantitation Limit

Print Date: 4/7/2009

## **QUALITY ASSURANCE REPORTS**

**METHOD BLANKS (MB)**

**LABORATORY CONTROL SPIKES (LCS)**

**MATRIX SPIKES (MS/MSD)\***

**DUPLICATES (DUP)\***

♦ **For Metals or Wet Chemistry analyses: only included if requested.**



ANALYTICAL QC SUMMARY REPORT

**TestNo: E300.0**

Sample ID:	LCS ALLT218076	SamplType:	LCS	TestCode:	ANIONS_Non	Run ID:	IC-DX120_090403A	Prep Date:	4/3/09	Units:	mg/L
Batch ID:	R46300	TestNo:	E300.0	FieldID:				Analysis Date:	4/3/09	SeqNo:	821908
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	18.66	2.5	20	0.35	93.3	90	110	0	0		
Nitrite-N	6.026	0.31	6.09	0	98.9	90	110	0	0		
Bromide	19.66	1.0	20	0	98.3	90	110	0	0		
Nitrate-N	4.428	0.23	4.518	0	98	90	110	0	0		
Nitrite+Nitrate-N	10.45	0.31	10.61	0	98.5	90	110	0	0		
Sulfate	29.31	2.5	30	0	97.7	90	110	0	0		

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J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range  
R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

- R - RPD outside acceptance limits
- B - Analyte detected in the associated Method Blank
- H - Prep or analytical holding time exceeded
- X - See case narrative

Work Order: 09-2221  
Client Project ID

# ANALYTICAL QC SUMMARY REPORT

TestCode: CARB/BICARB\_W

Sample ID: MBLK 04/06/09	SampleType: MBLK	TestCode: CARB/BICAR	Run ID: ALK_090406A	Prep Date: 4/6/2009	Units: mg/L
Batch ID: R46305	TestNo: SM2320 B	FileID: 74	Analysis Date: 4/6/2009	SeqNo: 822008	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Bicarbonate U 5.0

Sample ID: LCS	SampleType: LCS	TestCode: CARB/BICAR	Run ID: ALK_090406A	Prep Date: 4/6/2009	Units: mg/L
Batch ID: R46305	TestNo: SM2320 B	FileID: 75	Analysis Date: 4/6/2009	SeqNo: 822009	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Bicarbonate 101.6 5.0 100 2.098 102 90 110 0 0

## Qualifiers:

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- R - RPD outside acceptance limits
- B - Analyte detected in the associated Method Blank
- H - Prep or analytical holding time exceeded
- X - See case narrative

Work Order: 09-2221  
Client Project ID

## ANALYTICAL QC SUMMARY REPORT

TestCode: F\_W

Sample ID: MBLK 4/7/09	SampleType: MBLK	TestCode: F_W	Run ID: F_090407A	Prep Date: 4/7/2009	Units: mg/L
Batch ID: R46337	TestNo: SM 4500-F C	FileID: 47	Analysis Date: 4/7/2009	SeqNo: 822607	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	U	0.20			
Sample ID: MBLK 4/7/09	SampleType: MBLK	TestCode: F_W	Run ID: F_090407A	Prep Date: 4/7/2009	Units: mg/L
Batch ID: R46337	TestNo: SM 4500-F C	FileID: 74	Analysis Date: 4/7/2009	SeqNo: 822630	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	U	0.20			
Sample ID: LCS	SampleType: LCS	TestCode: F_W	Run ID: F_090407A	Prep Date: 4/7/2009	Units: mg/L
Batch ID: R46337	TestNo: SM 4500-F C	FileID: 48	Analysis Date: 4/7/2009	SeqNo: 822608	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	9.814	0.20	10	0	98.1 95 105 0 0
Sample ID: LCS	SampleType: LCS	TestCode: F_W	Run ID: F_090407A	Prep Date: 4/7/2009	Units: mg/L
Batch ID: R46337	TestNo: SM 4500-F C	FileID: 75	Analysis Date: 4/7/2009	SeqNo: 822631	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	10.42	0.20	10	0	104 95 105 0 0

## Qualifiers:

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R - RPD outside acceptance limits  
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X - See case narrative

Work Order: 09-2221  
Client Project ID

# ANALYTICAL QC SUMMARY REPORT

TestCode: TDS\_W

Sample ID: MBLK 4/6/09	SampleType: MBLK	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_090406B	Prep Date: 4/6/2009	Units: mg/L
Batch ID: R46336	TestNo: SM 2540C	FieldID: 47	Analysis Date: 4/6/2009	SeqNo: 822583	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Dissolved Solids

U 10.0

Sample ID: LCS	SampleType: LCS	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_090406B	Prep Date: 4/6/2009	Units: mg/L
Batch ID: R46336	TestNo: SM 2540C	FieldID: 48	Analysis Date: 4/6/2009	SeqNo: 822584	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Dissolved Solids

398 10.0 400 0 99.5 90 110 0 0

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X - See case narrative

Work Order: 09-2221  
Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

BatchID: 18724

Sample ID: MB-18724	Sample Type: MBLK	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_090410A	Prep Date: 4/9/2009	Units: mg/L
Batch ID: 18724	TestNo: E200.7, Rev.	FileID: 041009AM	Analysis Date: 4/10/2009	SeqNo: 824433	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Calcium	U	0.387			
Magnesium	U	0.150			
Potassium	U	0.340			
Sodium	U	0.400			
Sample ID: LCS-18724	Sample Type: LCS	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_090410A	Prep Date: 4/9/2009	Units: mg/L
Batch ID: 18724	TestNo: E200.7, Rev.	FileID: 041009AM	Analysis Date: 4/10/2009	SeqNo: 824434	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Calcium	9.854	0.387	10	0	98.5 85 115 0 0
Magnesium	9.789	0.150	10	0	97.9 85 115 0 0
Potassium	9.838	0.340	10	0.04069	98.4 85 115 0 0
Sodium	9.972	0.400	10	0	99.7 85 115 0 0
Sample ID: 09-2221-02DMMS	Sample Type: MS	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_090410A	Prep Date: 4/9/2009	Units: mg/L
Client ID: Alavarado	Batch ID: 18724	TestNo: E200.7, Rev.	FileID: 041009AM	Analysis Date: 4/10/2009	SeqNo: 824436
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Calcium	21.7	0.484	12.5	9.5	97.6 75 125 0 0
Magnesium	14.16	0.188	12.5	2.09	96.6 75 125 0 0
Potassium	14.42	0.425	12.5	2.227	97.5 75 125 0 0
Sodium	310.9	0.500	12.5	300	87.1 75 125 0 0
Sample ID: 09-2221-02DMMSD	Sample Type: MSD	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_090410A	Prep Date: 4/9/2009	Units: mg/L
Client ID: Alavarado	Batch ID: 18724	TestNo: E200.7, Rev.	FileID: 041009AM	Analysis Date: 4/10/2009	SeqNo: 824437
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Calcium	22.1	0.484	12.5	9.5	101 75 125 21.7 1.84 20
Magnesium	14.28	0.188	12.5	2.09	97.5 75 125 14.16 0.842 20

## Qualifiers:

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 R - RPD outside acceptance limits  
 B - Analyte detected in the associated Method Blank  
 H - Prep or analytical holding time exceeded  
 X - See case narrative

Work Order: 09-2221  
Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

BatchID: 18724

Sample ID: 09-2221-02DMSD	Sample Type: MSD	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_090410A	Prep Date: 4/9/2009	Units: mg/L						
Client ID: Alavarado	Batch ID: 18724	TestNo: E200.7, Rev.	FieldID: 041009AM	Analysis Date: 4/10/2009	SeqNo: 824437						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	14.64	0.425	12.5	2.227	99.3	75	125	14.42	1.55	20	
Sodium	314.8	0.500	12.5	300	118	75	125	310.9	1.23	20	

## Qualifiers:

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 E - Extrapolated value, value exceeds calibration range.  
 R - RPD outside acceptance limits  
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 H - Prep or analytical holding time exceeded  
 X - See case narrative

Work Order: 09-2221  
Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

BatchID: 18677

Sample ID: MB-18677	Sample Type: MBLK	Test Code: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_090407A	Prep Date: 4/6/2009	Units: mg/L
Batch ID: 18677	Test No: E200.7, Rev.	File ID: 040709AM	Analysis Date: 4/7/2009	SeqNo: 822505	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	U	0.0500			
Barium	0.003357	0.00200			
Cadmium	U	0.0100			
Chromium	U	0.0100			
Iron	U	0.0700			
Lead	U	0.0730			
Manganese	U	0.00500			
Selenium	U	0.100			

Sample ID: LCS-18677	Sample Type: LCS	Test Code: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_090407A	Prep Date: 4/6/2009	Units: mg/L
Batch ID: 18677	Test No: E200.7, Rev.	File ID: 040709AM	Analysis Date: 4/7/2009	SeqNo: 822506	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	1.959	0.0500	2	0	97.9 85 115 0 0
Barium	5.158	0.00200	5	0.003357	103 85 115 0 0
Cadmium	0.1985	0.0100	0.2	0	99.3 85 115 0 0
Chromium	1.963	0.0100	2	0	98.1 85 115 0 0
Iron	5.147	0.0700	5	0	103 85 115 0 0
Lead	2.103	0.0730	2	0.009401	105 85 115 0 0
Manganese	1.891	0.00500	2	0	94.5 85 115 0 0
Selenium	2.03	0.100	2	0	101 85 115 0 0

## Qualifiers:

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E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 09-2221  
Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8021\_W

Sample ID: MB4040309	Sample Type: MBLK	TestCode: 8021_W	Run ID: TVHBTEx4_090403A	Prep Date: 4/3/2009	Units: µg/L
Batch ID: R46296	TestNo: SW8021B	FileID: TVB404031003R	Analysis Date: 4/3/2009	SeqNo: 821787	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Methyl-t-butyl ether	U	5.0			
Benzene	U	1.0			
Toluene	U	2.0			
Ethylbenzene	U	2.0			
m,p-Xylene	U	2.0			
o-Xylene	U	2.0			
Surr: 1,2,4-Trichlorobenzene (S)	70.69	0	100	0	70.7 60 140 0 0

Sample ID: MEB040309	Sample Type: MBLK	TestCode: 8021_W	Run ID: TVHBTEx4_090403A	Prep Date: 4/3/2009	Units: µg/L
Batch ID: R46296	TestNo: SW8021B	FileID: TVB404031012R	Analysis Date: 4/3/2009	SeqNo: 821796	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Methyl-t-butyl ether	U	500			
Benzene	U	100			
Toluene	U	200			
Ethylbenzene	U	200			
m,p-Xylene	U	200			
o-Xylene	U	200			
Surr: 1,2,4-Trichlorobenzene (S)	7152	0	10000	0	71.5 60 140 0 0

Sample ID: LCS4040309	Sample Type: LCS	TestCode: 8021_W	Run ID: TVHBTEx4_090403A	Prep Date: 4/3/2009	Units: µg/L
Batch ID: R46296	TestNo: SW8021B	FileID: TVB404031004R	Analysis Date: 4/3/2009	SeqNo: 821788	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Methyl-t-butyl ether	34.41	5.0	31.2	0	110 70 130 0 0
Benzene	24.21	1.0	25.5	0	94.9 70 130 0 0
Toluene	173.7	2.0	183.6	0	94.6 70 130 0 0
Ethylbenzene	36.56	2.0	36.8	0	99.3 70 130 0 0
m,p-Xylene	149.8	2.0	136.3	0	110 70 130 0 0

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E - Extrapolated value, value exceeds calibration range  
R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative



Work Order: 09-2221  
Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8021\_W

Sample ID: LCS4040309	Sample Type: LCS	TestCode: 8021_W	Run ID: TVHBTEx4_090403A	Prep Date: 4/3/2009	Units: µg/L
Batch ID: R46296	TestNo: SW8021B	FileID: TVB404031004R	Analysis Date: 4/3/2009	SeqNo: 821788	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
o-Xylene	58.04	2.0	57.2	0	101 70 130 0 0
Surr: 1,2,4-Trichlorobenzene (S)	83.19	0	100	0	83.2 60 140 0 0

Sample ID: 09-2221-01FMS	Sample Type: MS	TestCode: 8021_W	Run ID: TVHBTEx4_090403A	Prep Date: 4/3/2009	Units: µg/L
Client ID: Cole	Batch ID: R46296	TestNo: SW8021B	FileID: TVB404031006R	Analysis Date: 4/3/2009	SeqNo: 821790
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Methyl-t-butyl ether	30.08	5.0	31.2	0	96.4 65 132 0 0
Benzene	22.26	1.0	25.5	0	87.3 70 130 0 0
Toluene	163.3	2.0	163.6	0	89 70 130 0 0
Ethylbenzene	33.9	2.0	36.8	0	92.1 62 130 0 0
m,p-Xylene	139.2	2.0	136.3	0	102 70 134 0 0
o-Xylene	54	2.0	57.2	0	94.4 63 130 0 0
Surr: 1,2,4-Trichlorobenzene (S)	82.01	0	100	0	82 60 140 0 0

Sample ID: 09-2221-01FMS	Sample Type: MS	TestCode: 8021_W	Run ID: TVHBTEx4_090403A	Prep Date: 4/3/2009	Units: µg/L
Client ID: Cole	Batch ID: R46296	TestNo: SW8021B	FileID: TVB404031007R	Analysis Date: 4/3/2009	SeqNo: 821791
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Methyl-t-butyl ether	31.52	5.0	31.2	0	101 65 132 30.08 4.67 0
Benzene	22.45	1.0	25.5	0	88 70 130 22.26 0.814 0
Toluene	163.3	2.0	163.6	0	88.9 70 130 163.3 0.0410 0
Ethylbenzene	33.85	2.0	36.8	0	92 62 130 33.9 0.145 0
m,p-Xylene	138	2.0	136.3	0	101 70 134 139.2 0.853 0
o-Xylene	53.75	2.0	57.2	0	94 63 130 54 0.462 0
Surr: 1,2,4-Trichlorobenzene (S)	76.22	0	100	0	76.2 60 140 0 0

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R - RPD outside acceptance limits  
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X - See case narrative

Work Order: 09-2221  
Client Project ID:

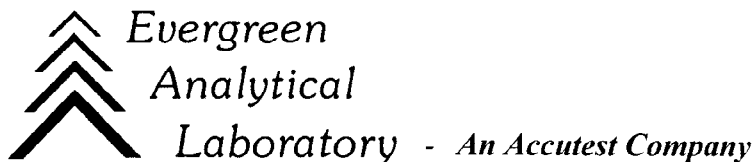
## ANALYTICAL QC SUMMARY REPORT

TestCode: MEEP\_W

Sample ID: GB040709	SampleType: MBLK	TestCode: MEEP_W	Run ID: FID4_090407A	Prep Date: 4/7/2009	Units: mg/L
Batch ID: GAS040709	TestNo: RSKSOP175	FieldID: FB004	Analysis Date: 4/7/2009	SeqNo: 822566	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Methane	U	0.00080			
Sample ID: LCS040709	SampleType: LCS	TestCode: MEEP_W	Run ID: FID4_090407A	Prep Date: 4/7/2009	Units: mg/L
Batch ID: GAS040709	TestNo: RSKSOP175	FieldID: FB005	Analysis Date: 4/7/2009	SeqNo: 822567	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Methane	0.6245	0.0080	0.5094	0	123 70 130 0 0
Sample ID: 09-2262-02GMS	SampleType: MS	TestCode: MEEP_W	Run ID: FID4_090407A	Prep Date: 4/7/2009	Units: mg/L
Batch ID: GAS040709	TestNo: RSKSOP175	FieldID: FB021	Analysis Date: 4/7/2009	SeqNo: 822554	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Methane	0.5842	0.0080	0.5094	0.001575	115 70 130 0 0
Sample ID: 09-2262-02GMSD	SampleType: MSD	TestCode: MEEP_W	Run ID: FID4_090407A	Prep Date: 4/7/2009	Units: mg/L
Batch ID: GAS040709	TestNo: RSKSOP175	FieldID: FB022	Analysis Date: 4/7/2009	SeqNo: 822555	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Methane	0.5936	0.0080	0.5094	0.001575	117 70 130 0.5842 1.58 30

## Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.  
R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative



April 16, 2009

Bob Chesson  
Colorado Oil & Gas Conservation Comm.  
1120 Lincoln St #801  
Denver, CO 80203

Lab Work Order: 09-2221  
Client Project ID:

Dear Bob Chesson:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary. The invoice is included with this report or has been mailed to another party as indicated on the chain of custody.

The enclosed data for testing performed at Evergreen Analytical Laboratory (EAL) have been reviewed for quality assurance. A case narrative is included to describe any anomalies associated with the samples or data.

EAL will dispose of all samples 44 days from the sample receipt date. If you want samples returned, please advise us by mail or fax as soon as possible.

A copy of this project report and supporting data will be retained for a period of five years unless we are otherwise advised by you. A document retrieval charge will apply.

Thank you for using the services of Evergreen Analytical. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,



Joseph J Egry IV/ Carl Smits  
Quality Assurance