

WORK ORDER Summary**Evergreen Analytical, Inc.****08-7909****Rpt To:** John Axelson**Email To:** john.axelson@state.co.us

10/14/2008 4:25:47 PM

Colorado Oil & Gas Conservation
Commission9203 E 155th Dr
Brighton, CO 80602
(303) 637-7178**Client Project ID:** Job # 200113299**QC Level:** LEVEL I**Comments:** Invoice in triplicate 6/30/08 ot 6/30/09. PM

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
08-7909-01A	Injection Well	Groundwater	10/13/08 1253	10/13/08	TEH_W *	8015: TEH-Diesel	<input type="checkbox"/>	<input type="checkbox"/>	10/16/08	10/20/08
08-7909-01B	Injection Well	Groundwater	10/13/08 1253	10/13/08	ANIONS_NonDW *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	10/27/08	10/15/08
08-7909-01C	Injection Well	Groundwater	10/13/08 1253	10/13/08	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	10/27/08	11/10/08
08-7909-01D	Injection Well	Groundwater	10/13/08 1253	10/13/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	10/27/08	4/11/09
08-7909-01D	Injection Well	Groundwater	10/13/08 1253	10/13/08	6020_D *	6020: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	10/27/08	4/11/09
08-7909-01E	Injection Well	Groundwater	10/13/08 1253	10/13/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	10/27/08	10/20/08
08-7909-02A	Nelson Well	Groundwater	10/13/08 1434	10/13/08	TEH_W *	8015: TEH-Diesel	<input type="checkbox"/>	<input type="checkbox"/>	10/16/08	10/20/08
08-7909-02B	Nelson Well	Groundwater	10/13/08 1434	10/13/08	ANIONS_NonDW *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	10/27/08	10/15/08
08-7909-02C	Nelson Well	Groundwater	10/13/08 1434	10/13/08	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	10/27/08	11/10/08
08-7909-02D	Nelson Well	Groundwater	10/13/08 1434	10/13/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	10/27/08	4/11/09
08-7909-02D	Nelson Well	Groundwater	10/13/08 1434	10/13/08	6020_D *	6020: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	10/27/08	4/11/09
08-7909-02E	Nelson Well	Groundwater	10/13/08 1434	10/13/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	10/27/08	10/20/08
08-7909-02F	Nelson Well	Groundwater	10/13/08 1434	10/13/08	SURF	Anionic Surfactants (MBAS)	<input type="checkbox"/>	<input type="checkbox"/>	10/27/08	10/15/08
08-7909-02G	Nelson Well	Groundwater	10/13/08 1434	10/13/08	FCOLMPN	Fecal Coliform MPN	<input type="checkbox"/>	<input type="checkbox"/>	10/27/08	10/14/08
08-7909-02H	Nelson Well	Groundwater	10/13/08 1434	10/13/08	TCOLMPN	Total Coliform MPN	<input type="checkbox"/>	<input type="checkbox"/>	10/27/08	10/14/08

Definitions: * - Test Code has a Select List

08-7909

due 10/27/08

Patty McClellan

From: "Axelson, John" <John.Axelson@state.co.us>
To: "Patty McClellan" <patty@evergreenanalytical.com>
Cc: "Dellaport, John C." <jcdellaport@terracon.com>
Sent: Tuesday, October 14, 2008 8:25 AM
Subject: Nelson Complaint

Hi Patty,

The COGCC has subcontracted Terracon to perform sampling in regard to the Nelson Water well complaint. They will be submitting the samples to Evergreen for analysis. Please invoice the COGCC under our existing PO, and the pdf and hard copy should be sent directly to me.

Please note the Nelson Complaint #200113299 on the related report and invoice. Thanks!

John Axelson, P.G.

Environmental Protection Specialist, Northeast Region
Colorado Oil and Gas Conservation Commission

Phone: 303-637-7178

Cell: 303-877-9964

Fax: 303-637-7179

Evergreen Analytical, Inc.

Date: 29-Oct-08

Lab Order: 08-7909

Client Project ID Job # 200113299

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 5.1 °C.

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

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. TP

CLIENT SERVICES

Job number, report to and invoice to instructions received by email from John Axelson, 10/14/08 PM.

The metal and anion analytes were selected per the quotation. There are no other anomalies to report.

EKH

GENERAL CHEMISTRY

The Anion samples had high conductivity and high Chloride levels and needed diluting. This raised the reporting limit for Nitrate-N and Nitrite-N for 08-7909-01 and Nitrite-N for -02. There are no other anomalies to report. JML/MM

METALS ANALYSIS

The matrix spike and matrix spike duplicate (MS/MSD) recoveries for Sodium are outside the QC limits due to the high concentration of Sodium in the sample versus the low concentration of the spike. The Sodium RPD for the matrix spike and matrix spike duplicate (MS/MSD) recoveries is above the QC limits. The laboratory control spike (LCS) recoveries are within QC limits, showing the analysis is in control. There are no other anomalies to report. SS

GAS CHROMATOGRAPHY

Method TEH_W: The method blank (Batch16999) was contaminated, so sample 08-7922-01B was referenced as the batch method blank. There are no other anomalies to report. MDS

005

Evergreen Analytical, Inc.

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

PO Number: 8280

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 08-7909

Outside Laboratory:

Industrial Laboratories
4046 Youngfield Street
Wheat Ridge, CO 80033

TEL: (303) 287-9691
FAX: (303) 287-0964

Acct #:

13-Oct-08

Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests							
				FCOLMPN	TCOLMPN						
081019012											
08-7909-02G	Groundwater	10/13/2008 2:34:00 PM	COL	1							
08-7909-02H	Groundwater	10/13/2008 2:34:00 PM	COL		1						

Comments:

Relinquished by: <u>TRC</u>	Date/Time: <u>10/14/08</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/14/08</u>
Relinquished by: _____	_____	Received by: _____	_____



Industrial LABORATORIES

Industrial Laboratories is your independent,
third-party analytical testing laboratory

To: Evergreen Analytical
4036 Youngfield

Wheat Ridge CO 80033-3862

Attn: Carl Smits

TEST REPORT

EV1601

Date Received: 10/14/2008

Date Reported: 10/16/2008

PO Number: 8280

Note: Sample test procedures conform to EPA 40CFR136 requirements.

Lab No.	Sample Description	Test Method	Result	Units	MDL	Analysis Date/By
081014012-01A	08-7909-02G/H 10/13/08	* Fecal Coliform MPN SM 9221 C/E	<2	MPN/100mL		CO 10/14/200
081014012-01A	08-7909-02G/H 10/13/08	* Total Coliforms MPN SM 9221 B	<2	MPN/100mL		CO 10/14/200


Department Manager

* = Scope Analysis

= Subcontracted Analysis

MDL = Method Detection Limit

ND = Not Detected at the Method Detection Limit

Page: 1 of 1

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

Lab Order: 08-7909
Client Project ID: Job # 200113299
Matrix: Groundwater

Date Received: 10/13/08
Date Prepared: 10/14/08
Prep Batch ID: 16999
Units: mg/L

Total Extractable Hydrocarbons
Diesel Fuel (No. 2)

Method: SW8015B Mod

Prep Method: SW3510C

Lab ID	Client Sample ID	File ID	Date Collected	Date Analyzed	DF	Surr REC	Sample Results	LQL
08-7909-01A	Injection Well	FID61014\072R	10/13/08	10/14/08	1	41%	13	3.2
08-7909-02A	Nelson Well	FID61014\073R	10/13/08	10/14/08	1	37%	6.0	3.2

Surrogate QC Limits 35-130 %REC Surr: TBB

MPS

Analyst

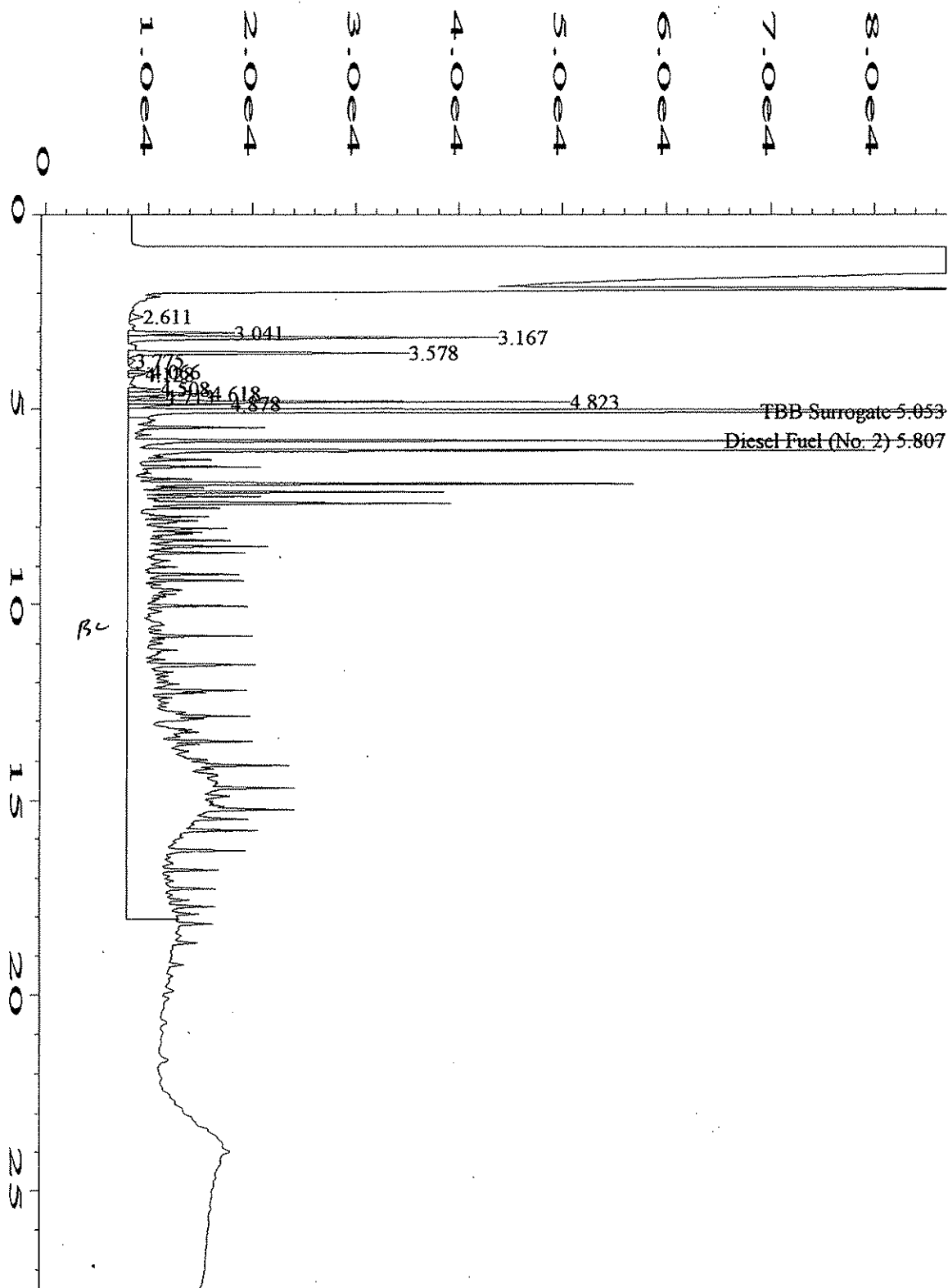
[Signature]

Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
E - Extrapolated value. Value exceeds calibration range
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X - See case narrative
* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Definitions: DF - Dilution Factor
LQL - Lower Quantitation Limit
Surr - Surrogate

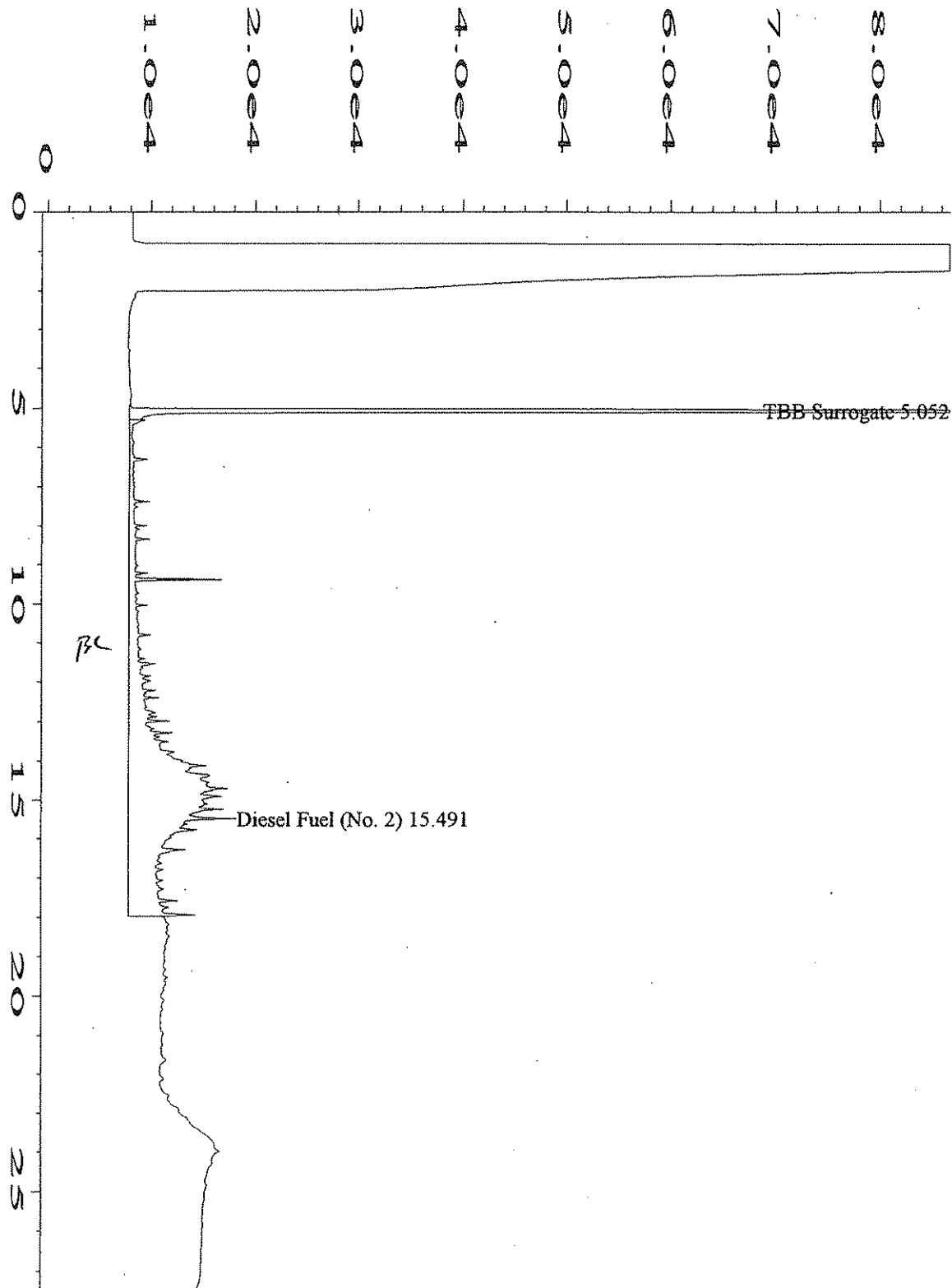
Print Date: 10/15/08



user modified

Data File Name	: C:\HPCHEM\1\DATA\FID61014\072R0101.D	Page Number	: 1
Operator	: Marcus Stephenson	Vial Number	: 72
Instrument	: FID6	Injection Number	: 1
Sample Name	: 08-7909-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	DUALFID.MTH
Acquired on	: 14 Oct 08 08:50 PM	Analysis Method	: DR0417.MTH
Report Created on:	15 Oct 08 09:49 AM	Sample Amount	: 0
Last Recalib on	: 18 APR 08 10:01 AM	ISTD Amount	:
Multiplier	: 1		

(x) M) 10-15-08



user modified

Data File Name	: C:\HPCHEM\1\DATA\FID61014\073R0101.D	Page Number	: 1
Operator	: Marcus Stephenson	Vial Number	: 73
Instrument	: FID6	Injection Number	: 1
Sample Name	: 08-7909-02A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: DUALFID.MTH
Acquired on	: 14 Oct 08 09:23 PM	Analysis Method	: DR0417.MTH
Report Created on:	: 15 Oct 08 09:51 AM	Sample Amount	: 0
Last Recalib on	: 18 APR 08 10:01 AM	ISTD Amount	:
Multiplier	: 1		

1x MS 10-15-08

Evergreen Analytical, Inc.

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

Client Sample ID: Injection Well
Client Project ID: Job # 200113299
Date Collected: 10/13/08 1253
Date Received: 10/13/08

Lab Work Order 08-7909
Lab Sample ID: 08-7909-01
Sample Matrix: Groundwater

ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 10/14/08

Dilution Factor: 20

Date Analyzed: 10/14/08 1147

Method Blank: MB 10/14/08

Lab Fraction ID: 08-7909-01B

Analytes	CAS Number	Result	LQL	Units
Bromide	7647-15-6	17.6	4.0	mg/L
Nitrate-N		U	0.90	mg/L
Sulfate	7778-80-2	380	10	mg/L

Date Prepared: 10/14/08

Dilution Factor: 100

Date Analyzed: 10/14/08 1508

Method Blank: MB 10/14/08

Lab Fraction ID: 08-7909-01B

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	3870	50	mg/L
Nitrite-N		U	6.1	mg/L


Analyst


Approved

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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: 10/15/08

Evergreen Analytical, Inc.

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

Client Sample ID: Nelson Well
Client Project ID: Job # 200113299
Date Collected: 10/13/08 1434
Date Received: 10/13/08

Lab Work Order 08-7909
Lab Sample ID: 08-7909-02
Sample Matrix: Groundwater

ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 10/14/08
Date Analyzed: 10/14/08 1158

Method Blank: MB 10/14/08

Dilution Factor: 10
Lab Fraction ID: 08-7909-02B

Analytes	CAS Number	Result	LQL	Units
Bromide	7647-15-6	9.93	2.0	mg/L
Nitrate-N		1.73	0.45	mg/L
Sulfate	7778-80-2	43.9	5.0	mg/L

Date Prepared: 10/14/08
Date Analyzed: 10/14/08 1305

Method Blank: MB 10/14/08

Dilution Factor: 100
Lab Fraction ID: 08-7909-02B

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	2050	50	mg/L
Nitrite-N		U	6.1	mg/L


Analyst


Approved

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LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 10/15/08

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

Client Sample ID: Injection Well
Client Project ID: Job # 200113299
Date Collected: 10/13/08
Date Received: 10/13/08

Lab Work Order 08-7909
Lab Sample ID: 08-7909-01
Sample Matrix: Groundwater

FLUORIDE

Method: SM 4500-F C

Prep Method:

Date Prepared: 10/16/08
Date Analyzed: 10/16/08

Lab File ID: 36
Method Blank: MBLK 10/16/08

Dilution Factor: 1
Lab Fraction ID: 08-7909-01C

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	2.3	0.20	mg/L

TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

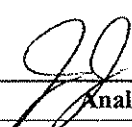
Prep Method:

Date Prepared: 10/14/08
Date Analyzed: 10/14/08

Lab File ID: 97
Method Blank: MBLK 101408

Dilution Factor: 1
Lab Fraction ID: 08-7909-01E

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		9360	10.0	mg/L



 Analyst



 Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
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 S - Spike Recovery outside accepted limits
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 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

Evergreen Analytical, Inc.

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

Client Sample ID: Nelson Well
Client Project ID: Job # 200113299
Date Collected: 10/13/08 1434
Date Received: 10/13/08

Lab Work Order 08-7909
Lab Sample ID: 08-7909-02
Sample Matrix: Groundwater

FLUORIDE

Method: SM 4500-F C

Prep Method:

Date Prepared: 10/16/08
Date Analyzed: 10/16/08

Lab File ID: 37
Method Blank: MBLK 10/16/08

Dilution Factor: 1
Lab Fraction ID: 08-7909-02C

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	0.22	0.20	mg/L

ANIONIC SURFACTANTS (MBAS)

Method: SM5540C

Prep Method:

Comments: Results reported as LAS (MW 342)

Date Prepared: 10/14/08
Date Analyzed: 10/14/08 1000

Lab File ID: 49
Method Blank: MBLK 10/14/08

Dilution Factor: 1
Lab Fraction ID: 08-7909-02F

Analytes	CAS Number	Result	LQL	Units
Surfactants		0.082	0.025	mgMBAS/L

TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

Prep Method:

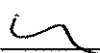
Date Prepared: 10/14/08
Date Analyzed: 10/14/08

Lab File ID: 98
Method Blank: MBLK 101408

Dilution Factor: 1
Lab Fraction ID: 08-7909-02E

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		3840	10.0	mg/L


Analyst


Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
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S - Spike Recovery outside accepted limits
U - Compound analyzed for but not detected
X - See case narrative
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Definitions: NA - Not Applicable
LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 10/21/2008

Evergreen Analytical, Inc.

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

Client Sample ID: Injection Well
Client Project ID: Job # 200113299
Date Collected: 10/13/08
Date Received: 10/13/08

Lab Work Order 08-7909
Lab Sample ID: 08-7909-01
Sample Matrix: Groundwater

DISSOLVED METALS

Method: SW6010B

Prep Method: E200.7/SW3010A

Date Prepared: 10/14/08
Date Analyzed: 10/16/08

Lab File ID: 101608AM
Method Blank: MB-17000

Dilution Factor: 1
Lab Fraction ID: 08-7909-01D

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	12	0.39	mg/L
Iron	7439-89-6	U	0.070	mg/L
Magnesium	7439-95-4	2.5	0.15	mg/L
Manganese	7439-96-5	0.022	0.0050	mg/L
Potassium	7440-09-7	25	0.34	mg/L

Date Prepared: 10/14/08
Date Analyzed: 10/20/08

Lab File ID: 102008AM
Method Blank: MB-17000

Dilution Factor: 10
Lab Fraction ID: 08-7909-01D

Analytes	CAS Number	Result	LQL	Units
Sodium	7440-23-5	3700	4.0	mg/L

DISSOLVED METALS

Method: SW6020

Prep Method: SW6020

Date Prepared: 10/21/08
Date Analyzed: 10/23/08

Lab File ID: 081023A.B\052SMPL.D
Method Blank: MB-17069

Dilution Factor: 1
Lab Fraction ID: 08-7909-01D

Analytes	CAS Number	Result	LQL	Units
Selenium	7782-49-2	0.0068	0.0050	mg/L


Analyst


Approved

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S - Spike Recovery outside accepted limits
U - Compound analyzed for but not detected
X - See case narrative
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Definitions: NA - Not Applicable
LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 10/24/2008

Evergreen Analytical, Inc.

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

Client Sample ID: Nelson Well
Client Project ID: Job # 200113299
Date Collected: 10/13/08
Date Received: 10/13/08

Lab Work Order 08-7909
Lab Sample ID: 08-7909-02
Sample Matrix: Groundwater

DISSOLVED METALS

Method: SW6010B

Prep Method: E200.7/SW3010A

Date Prepared: 10/14/08
Date Analyzed: 10/16/08

Lab File ID: 101608AM
Method Blank: MB-17000

Dilution Factor: 1
Lab Fraction ID: 08-7909-02D

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	660	0.39	mg/L
Iron	7439-89-6	0.17	0.070	mg/L
Magnesium	7439-95-4	230	0.15	mg/L
Manganese	7439-96-5	0.023	0.0050	mg/L
Potassium	7440-09-7	36	0.34	mg/L
Sodium	7440-23-5	200	0.40	mg/L

DISSOLVED METALS

Method: SW6020

Prep Method: SW6020

Date Prepared: 10/21/08
Date Analyzed: 10/23/08

Lab File ID: 081023A.B\053SMPL.D
Method Blank: MB-17069

Dilution Factor: 1
Lab Fraction ID: 08-7909-02D

Analytes	CAS Number	Result	LQL	Units
Selenium	7782-49-2	0.012	0.0050	mg/L

Analyst

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Print Date: 10/27/2008

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.**

Work Order: 08-7909

Client Project ID: Job # 200113299

ANALYTICAL QC SUMMARY REPORT

BatchID: 16999

Sample ID: 08-7922-01B	SampType: MBLK	TestCode: TEH_W	Run ID: FID6_081014A	Prep Date: 10/14/08	Units: mg/L						
	Batch ID: 16999	TestNo: SW8015B Mo	FileID: FID61014\076R	Analysis Date: 10/14/08	SeqNo: 756827						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Fuel (No. 2)	U	3.2									
Surr: TBB	8.042	0	16	0	50.3	35	130	0	0		

Sample ID: LCS-16999	SampType: LCS	TestCode: TEH_W	Run ID: FID6_081014A	Prep Date: 10/14/08	Units: mg/L						
	Batch ID: 16999	TestNo: SW8015B Mo	FileID: FID61014\070R	Analysis Date: 10/14/08	SeqNo: 756820						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Fuel (No. 2)	17.38	0.40	20	0	86.9	70	130	0	0		
Surr: TBB	0.8548	0	2	0	42.7	35	130	0	0		

Sample ID: LCSD-16999	SampType: LCSD	TestCode: TEH_W	Run ID: FID6_081014A	Prep Date: 10/14/08	Units: mg/L						
	Batch ID: 16999	TestNo: SW8015B Mo	FileID: FID61014\071R	Analysis Date: 10/14/08	SeqNo: 756826						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Fuel (No. 2)	16.37	0.40	20	0	81.8	70	130	17.38	6.00	30	
Surr: TBB	0.8085	0	2	0	40.4	35	130	0	0	0	

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

Work Order: 08-7909

Client Project ID: Job # 200113299

ANALYTICAL QC SUMMARY REPORT

TestNo: E300.0

Sample ID: MB 10/14/08	SampType: MBLK	TestCode: ANIONS_W	Run ID: IC-DX120_081014A	Prep Date: 10/14/08	Units: mg/L						
	Batch ID: R42769	TestNo: E300.0	FileID:	Analysis Date: 10/14/08	SeqNo: 756951						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0	0.50									
Nitrite-N	0	0.0040									
Bromide	0	0.050									
Nitrate-N	0	0.010									
Sulfate	0	0.50									

Sample ID: LCS ALLT218076	SampType: LCS	TestCode: ANIONS_W	Run ID: IC-DX120_081014A	Prep Date: 10/14/08	Units: mg/L						
	Batch ID: R42769	TestNo: E300.0	FileID:	Analysis Date: 10/14/08	SeqNo: 756950						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	18.59	2.5	20	0	93	90	110	0	0		
Nitrite-N	6.035	0.020	6.09	0	99.1	90	110	0	0		
Bromide	19.37	0.25	20	0	96.9	90	110	0	0		
Nitrate-N	4.242	0.050	4.518	0	93.9	90	110	0	0		
Sulfate	28.88	2.5	30	0	96.3	90	110	0	0		

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

Evergreen Analytical, Inc.

Date: 21-Oct-08

Work Order: 08-7909

Client Project ID: Job # 200113299

ANALYTICAL QC SUMMARY REPORT

TestCode: F_W

Sample ID	MBLK 10/16/08	SampType: MBLK	TestCode: F_W	Run ID: F_081016A	Prep Date: 10/16/2008	Units: mg/L					
		Batch ID: R42800	TestNo: SM 4500-F C	FileID: 1	Analysis Date: 10/16/2008	SeqNo: 757500					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride U 0.20

Sample ID	MBLK 10/16/08	SampType: MBLK	TestCode: F_W	Run ID: F_081016A	Prep Date: 10/16/2008	Units: mg/L					
		Batch ID: R42800	TestNo: SM 4500-F C	FileID: 26	Analysis Date: 10/16/2008	SeqNo: 757525					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride U 0.20

Sample ID	LCS	SampType: LCS	TestCode: F_W	Run ID: F_081016A	Prep Date: 10/16/2008	Units: mg/L					
		Batch ID: R42800	TestNo: SM 4500-F C	FileID: 2	Analysis Date: 10/16/2008	SeqNo: 757501					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride 10.19 0.20 10 0 102 95 105 0 0

Sample ID	LCS	SampType: LCS	TestCode: F_W	Run ID: F_081016A	Prep Date: 10/16/2008	Units: mg/L					
		Batch ID: R42800	TestNo: SM 4500-F C	FileID: 27	Analysis Date: 10/16/2008	SeqNo: 757526					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride 10.36 0.20 10 0 104 95 105 0 0

Qualifiers:

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 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

Work Order: 08-7909
Client Project ID: Job # 200113299

ANALYTICAL QC SUMMARY REPORT

TestCode: TDS_W

Sample ID	MBLK 101408	SampType: MBLK	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_081015C	Prep Date: 10/14/2008	Units: mg/L
		Batch ID: R42776	TestNo: SM 2540C	FileID: 73	Analysis Date: 10/14/2008	SeqNo: 757029
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	SampType: LCS	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_081015C	Prep Date: 10/14/2008	Units: mg/L
		Batch ID: R42776	TestNo: SM 2540C	FileID: 74	Analysis Date: 10/14/2008	SeqNo: 757030
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Dissolved Solids 410 10.0 400 0 103 90 110 0 0

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

Work Order: 08-7909

Client Project ID: Job # 200113299

ANALYTICAL QC SUMMARY REPORT

TestCode: SURF

Sample ID	MBLK 10/14/08	SampType: MBLK	TestCode: SURF	Run ID: SPEC GEN 10_081014A	Prep Date: 10/14/2008	Units: mgMBAS/L
		Batch ID: R42707	TestNo: SM5540C	FileID: 47	Analysis Date: 10/14/2008	SeqNo: 758642
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Surfactants	U	0.025
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Sample ID	LCS	SampType: LCS	TestCode: SURF	Run ID: SPEC GEN 10_081014A	Prep Date: 10/14/2008	Units: mgMBAS/L
		Batch ID: R42707	TestNo: SM5540C	FileID: 48	Analysis Date: 10/14/2008	SeqNo: 758643
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Surfactants	0.167	0.025	0.15	0	111	70	130	0	0
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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

Work Order: 08-7909

Client Project ID: Job # 200113299

ANALYTICAL QC SUMMARY REPORT

BatchID: 17000

Sample ID: MB-17000	SampType: MBLK	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_081016A	Prep Date: 10/14/2008	Units: mg/L
	Batch ID: 17000	TestNo: E200.7, Rev.	FileID: 101608AM	Analysis Date: 10/16/2008	SeqNo: 757422

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	0	0.387									
Iron	0	0.0700									
Magnesium	0	0.150									
Manganese	0	0.00500									
Potassium	0	0.340									
Sodium	U	0.400									

Sample ID: LCS-17000	SampType: LCS	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_081016A	Prep Date: 10/14/2008	Units: mg/L
	Batch ID: 17000	TestNo: E200.7, Rev.	FileID: 101608AM	Analysis Date: 10/16/2008	SeqNo: 757423

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.923	0.387	10	0	99.2	74	113	0	0		
Iron	4.921	0.0700	5	0	98.4	76.6	115	0	0		
Magnesium	9.852	0.150	10	0	98.5	76.7	114	0	0		
Manganese	1.922	0.00500	2	0	96.1	72.4	109	0	0		
Potassium	10.01	0.340	10	0	100	70.9	115	0	0		
Sodium	10.18	0.400	10	0.2601	102	80	120	0	0		

Sample ID: 08-7909-01DMS	SampType: MS	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_081016A	Prep Date: 10/14/2008	Units: mg/L
Client ID: Injection Well	Batch ID: 17000	TestNo: SW6010B	FileID: 101608AM	Analysis Date: 10/16/2008	SeqNo: 757749

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	23.53	0.48	12.5	12.25	90.2	75	125	0	0		
Iron	5.491	0.088	6.25	0.05725	87.9	75	125	0	0		
Magnesium	13.2	0.19	12.5	2.525	85.4	75	125	0	0		
Manganese	2.128	0.0063	2.5	0.0218	84.3	75	125	0	0		
Potassium	40.39	0.43	12.5	25.33	120	75	125	0	0		

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

Work Order: 08-7909
 Client Project ID: Job # 200113299

ANALYTICAL QC SUMMARY REPORT

BatchID: 17000

Sample ID: 08-7909-01AMS	SampType: MS	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_081020A	Prep Date:	Units: mg/L						
Client ID: Injection Well	Batch ID: 17000	TestNo: SW6010B	FileID: 102008AM	Analysis Date: 10/21/2008	SeqNo: 758901						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	3925	4.0	10	3956	-309	75	125	0	0		S

Sample ID: 08-7909-01DMSD	SampType: MSD	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_081016A	Prep Date: 10/14/2008	Units: mg/L						
Client ID: Injection Well	Batch ID: 17000	TestNo: SW6010B	FileID: 101608AM	Analysis Date: 10/16/2008	SeqNo: 757750						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	23.36	0.48	12.5	12.25	88.8	75	125	23.53	0.757	20	
Iron	5.361	0.088	6.25	0.05725	85.8	75	125	5.491	2.40	20	
Magnesium	13.01	0.19	12.5	2.525	83.9	75	125	13.2	1.44	20	
Manganese	2.082	0.0063	2.5	0.0218	82.4	75	125	2.128	2.19	20	
Potassium	39.99	0.43	12.5	25.33	117	75	125	40.39	1.01	20	

Sample ID: 08-7909-01AMSD	SampType: MSD	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_081020A	Prep Date:	Units: mg/L						
Client ID: Injection Well	Batch ID: 17000	TestNo: SW6010B	FileID: 102008AM	Analysis Date: 10/21/2008	SeqNo: 758902						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	3006	4.0	10	3956	-9500	75	125	3925	26.5	20	SR

Qualifiers:
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 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

Evergreen Analytical, Inc.

Date: 29-Oct-08

Work Order: 08-7909

Client Project ID: Job # 200113299

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_D

Sample ID	MB-17069	SampType: MBLK	TestCode: 6020_D	Run ID: ICPMS_081023A	Prep Date: 10/21/2008	Units: mg/L						
		Batch ID: 17069	TestNo: SW6020	FileID: 081023A.B\020SMPL.D	Analysis Date: 10/23/2008	SeqNo: 760951						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium		U	0.0050									

Sample ID	LCS-17069	SampType: LCS	TestCode: 6020_D	Run ID: ICPMS_081023A	Prep Date: 10/21/2008	Units: mg/L						
		Batch ID: 17069	TestNo: SW6020	FileID: 081023A.B\021SMPL.D	Analysis Date: 10/23/2008	SeqNo: 760952						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium		0.06465	0.0050	0.06	0	108	73.4	138	0	0		

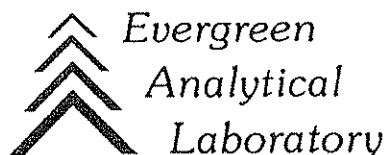
Sample ID	08-8073-06CMS	SampType: MS	TestCode: 6020_D	Run ID: ICPMS_081023A	Prep Date: 10/21/2008	Units: mg/L						
		Batch ID: 17069	TestNo: SW6020	FileID: 081023A.B\025SMPL.D	Analysis Date: 10/23/2008	SeqNo: 760955						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium		0.04262	0.0050	0.04	0.00157	107	75	125	0	0		

Sample ID	08-8073-06CMSD	SampType: MSD	TestCode: 6020_D	Run ID: ICPMS_081023A	Prep Date: 10/21/2008	Units: mg/L						
		Batch ID: 17069	TestNo: SW6020	FileID: 081023A.B\026SMPL.D	Analysis Date: 10/23/2008	SeqNo: 760956						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium		0.0409	0.0050	0.04	0.00157	102	75	125	0.04262	4.11	20	

Qualifiers:

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 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



October 29, 2008

John Axelson
Colorado Oil & Gas Conservation Commission
9203 E 155th Dr
Brighton, CO 80602

Lab Work Order: 08-7909
Client Project ID: Job # 200113299

Dear John Axelson:

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,



Kaprie Hollman/Carl Smits
Quality Assurance
khollman@evergreenanalytical.com

WORK ORDER Summary

Evergreen Analytical, Inc.

08-1682

Rpt To: John Axelson

Email To: john.axelson@state.co.us

Colorado Oil & Gas Conservation
Comm.9203 E. 155th Dr
Brighton, CO 80602
(303) 637-7178

3/13/2008 4:45:43 PM

Client Project ID: Nelson Complaint

QC Level: Level I+

Comments

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
08-1682-01A	Schwake Pit 0-0.5	Soil	3/12/08 1330	3/13/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	9/08/08
08-1682-01A	Schwake Pit 0-0.5	Soil	3/12/08 1330	3/13/08	COND_S	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	4/09/08
08-1682-01A	Schwake Pit 0-0.5	Soil	3/12/08 1330	3/13/08	SAR_S	Sodium Adsorption Ratio, Soil Leachate	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	9/08/08
08-1682-01B	Schwake Pit 0-0.5	Soil	3/12/08 1330	3/13/08	PH_S	9045C: pH	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	3/13/08
08-1682-01C	Schwake Pit 0-0.5	Soil	3/12/08 1330	3/13/08	ANIONS_S *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	4/09/08
08-1682-02A	Schwake Pit 2.5-3.5	Soil	3/12/08 1400	3/13/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	9/08/08
08-1682-02A	Schwake Pit 2.5-3.5	Soil	3/12/08 1400	3/13/08	COND_S	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	4/09/08
08-1682-02A	Schwake Pit 2.5-3.5	Soil	3/12/08 1400	3/13/08	SAR_S	Sodium Adsorption Ratio, Soil Leachate	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	9/08/08
08-1682-02B	Schwake Pit 2.5-3.5	Soil	3/12/08 1400	3/13/08	PH_S	9045C: pH	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	3/13/08
08-1682-02C	Schwake Pit 2.5-3.5	Soil	3/12/08 1400	3/13/08	ANIONS_S *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	4/09/08
08-1682-03A	Nelson BG-01	Soil	3/12/08 1425	3/13/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	9/08/08
08-1682-03A	Nelson BG-01	Soil	3/12/08 1425	3/13/08	COND_S	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	4/09/08
08-1682-03A	Nelson BG-01	Soil	3/12/08 1425	3/13/08	SAR_S	Sodium Adsorption Ratio, Soil Leachate	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	9/08/08
08-1682-03B	Nelson BG-01	Soil	3/12/08 1425	3/13/08	PH_S	9045C: pH	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	3/13/08
08-1682-03C	Nelson BG-01	Soil	3/12/08 1425	3/13/08	ANIONS_S *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	3/27/08	4/09/08

Definitions: * - Test Code has a Select List

Page 1 of 1

CLIENT INFORMATION

Mail Original Report to: COGCL

Attn John Axelsson

Address 9203 E. 155th Dr.

City Brighton State CO Zip 80602

Tel # 303 637 7178 Fax # 7179 E-mail john

REPORT ALSO BY ☐ FAX ☒ PDF ☐ EDD

REPORT CHROMATOGRAMS ☒ YES

Mail Invoice to: Same

Attn _____

Address _____

City _____ State _____ Zip _____

Tel # _____ Fax # _____

Project ID# Nelson Complaint

P.O. _____ Quote _____

Sampler John Axelsson

NOTE: Identify Known Hazards Below

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME
--------------------------	-----------------	------



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

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 & exceptions noted in fee schedule.

[illegible]

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

Relinquished by: (Signature) 	Date/Time 3/13/08 11:15	Received by: (Signature) 	Date/Time 3/13/08 11:15	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
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Evergreen Analytical, Inc.

Date: 27-Mar-08

Client Project ID: Nelson Complaint

Lab Order: 08-1682

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 0.3 °C.

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

CLIENT SERVICES

There are no anomalies to report. EKH

GENERAL CHEMISTRY

There are no anomalies to report. MM

METALS ANALYSIS

There are no anomalies to report. CMS

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

Client Sample ID: Schwako Pit 0-0.5
Client Project ID: Nelson Complaint
Date Collected: 3/12/08
Date Received: 3/13/08

Lab Work Order 08-1682
Lab Sample ID: 08-1682-01
Sample Matrix: Soil

DISSOLVED METALS

Method: SW6010B

Prep Method: E200.7/SW3010A

Date Prepared: 3/17/08

Lab File ID: 031908PM

Dilution Factor: 1

Date Analyzed: 3/19/08

Method Blank: MB-14979

Lab Fraction ID: 08-1682-01A

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	120	1.9	mg/L
Magnesium	7439-95-4	4.8	0.75	mg/L
Potassium	7440-09-7	35	1.7	mg/L
Sodium	7440-23-5	4000	2.0	mg/L

SODIUM ADSORPTION RATIO, SOIL

Method: USDA

Prep Method:

Date Prepared: 3/17/08

Dilution Factor: 1

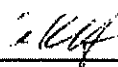
Date Analyzed: 3/19/08

Lab Fraction ID: 08-1682-01A

Analytes	CAS Number	Result	LQL	Units
Sodium-Adsorption-Ratio		97	0.10	ratio



Analyst



Approved

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

Print Date: 3/24/2008

Evergreen Analytical, Inc.

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

Client Sample ID: Schwake Pit 2.5-3.5
Client Project ID: Nelson Complaint
Date Collected: 3/12/08
Date Received: 3/13/08

Lab Work Order 08-1682
Lab Sample ID: 08-1682-02
Sample Matrix: Soil

DISSOLVED METALS

Method: SW6010B

Prep Method: E200.7/SW3010A

Date Prepared: 3/17/08
Date Analyzed: 3/19/08

Lab File ID: 031908PM
Method Blank: MB-14979

Dilution Factor: 1
Lab Fraction ID: 08-1682-02A

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	540	1.9	mg/L
Magnesium	7439-95-4	45	0.75	mg/L
Potassium	7440-09-7	75	1.7	mg/L
Sodium	7440-23-5	6500	2.0	mg/L

SODIUM ADSORPTION RATIO, SOIL

Method: USDA

Prep Method:

Date Prepared: 3/17/08
Date Analyzed: 3/19/08

Dilution Factor: 1
Lab Fraction ID: 08-1682-02A

Analytes	CAS Number	Result	LQL	Units
Sodium-Adsorption-Ratio		72	0.10	ratio

JMC

Analyst

WJH

Approved

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

Print Date: 3/24/2008

Evergreen Analytical, Inc.

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

Client Sample ID: Nelson BG-01
Client Project ID: Nelson Complaint
Date Collected: 3/12/08
Date Received: 3/13/08

Lab Work Order 08-1682
Lab Sample ID: 08-1682-03
Sample Matrix: Soil

DISSOLVED METALS

Method: SW6010B

Prep Method: E200.7/SW3010A

Date Prepared: 3/17/08
Date Analyzed: 3/19/08

Lab File ID: 031908PM
Method Blank: MB-14979

Dilution Factor: 1
Lab Fraction ID: 08-1682-03A

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	130	1.9	mg/L
Magnesium	7439-95-4	14	0.75	mg/L
Potassium	7440-09-7	28	1.7	mg/L
Sodium	7440-23-5	23	2.0	mg/L

SODIUM ADSORPTION RATIO, SOIL

Method: USDA

Prep Method:

Date Prepared: 3/17/08
Date Analyzed: 3/19/08

Dilution Factor: 1
Lab Fraction ID: 08-1682-03A

Analytes	CAS Number	Result	LQL	Units
Sodium-Adsorption-Ratio		0.51	0.10	ratio

Analyst

Approved

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

Print Date: 3/24/2008

Evergreen Analytical, Inc.

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

Client Sample ID: Schwake Pit 0-0.5
Client Project ID: Nelson Complaint
Date Collected: 3/12/08 1330
Date Received: 3/13/08

Lab Work Order 08-1682
Lab Sample ID: 08-1682-01
Sample Matrix: Soil

SPECIFIC CONDUCTANCE @ 25°C

Method: Dept of Ag.

Prep Method:

Comments: Method: US Dept. of Ag. Handbook #60, p89

Date Prepared: 3/17/08

Lab File ID: 49

Dilution Factor: 1

Date Analyzed: 3/21/08

Lab Fraction ID: 08-1682-01A

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		15600	1.00	µmhos/cm

PH

Method: SW9045C

Prep Method:

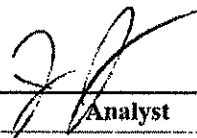
Date Prepared: 3/13/08

Dilution Factor: 1

Date Analyzed: 3/13/08 1255

Lab Fraction ID: 08-1682-01B

Analytes	CAS Number	Result	LQL	Units
pH		9.65	1.00	pH Units


Analyst


Approved

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

Print Date: 3/24/2008

Evergreen Analytical, Inc.

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

Client Sample ID: Schwake Pit 2.5-3.5
Client Project ID: Nelson Complaint
Date Collected: 3/12/08 1400
Date Received: 3/13/08

Lab Work Order 08-1682
Lab Sample ID: 08-1682-02
Sample Matrix: Soil

SPECIFIC CONDUCTANCE @ 25°C

Method: Dept of Ag.

Prep Method:

Comments: Method: US Dept. of Ag, Handbook #60, p89

Date Prepared: 3/17/08
Date Analyzed: 3/21/08

Lab File ID: 50

Dilution Factor: 1
Lab Fraction ID: 08-1682-02A

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		23900	1.00	µmhos/cm

PH

Method: SW9045C

Prep Method:

Date Prepared: 3/13/08
Date Analyzed: 3/13/08 1255

Dilution Factor: 1
Lab Fraction ID: 08-1682-02B

Analytes	CAS Number	Result	LQL	Units
pH		9.23	1.00	pH Units


Analyst


Approved

Qualifiers: U - 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: NA - Not Applicable
LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 3/24/2008

Evergreen Analytical, Inc.

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

Client Sample ID: Nelson BG-01
Client Project ID: Nelson Complaint
Date Collected: 3/12/08 1425
Date Received: 3/13/08

Lab Work Order 08-1682
Lab Sample ID: 08-1682-03
Sample Matrix: Soil

SPECIFIC CONDUCTANCE @ 25°C

Method: Dept of Ag.

Prep Method:

Comments: Method: US Dept. of Ag, Handbook #60, p89

Date Prepared: 3/17/08

Lab File ID: 51

Dilution Factor: 1

Date Analyzed: 3/21/08

Lab Fraction ID: 08-1682-03A

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		969	1.00	µmhos/cm

PH

Method: SW9045C

Prep Method:

Date Prepared: 3/13/08

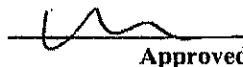
Dilution Factor: 1

Date Analyzed: 3/13/08 1255

Lab Fraction ID: 08-1682-03B

Analytes	CAS Number	Result	LQL	Units
pH		7.76	1.00	pH Units


Analyst


Approved

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

Print Date: 3/24/2008

Evergreen Analytical, Inc.

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

Client Sample ID: Schwake Pit 0-0.5
Client Project ID: Nelson Complaint
Date Collected: 3/12/08
Date Received: 3/13/08

Lab Work Order: 08-1682
Lab Sample ID: 08-1682-01
Sample Matrix: Soil

ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 3/19/08

Dilution Factor: 10

Date Analyzed: 3/19/08

Method Blank: MB-R37891

Lab Fraction ID: 08-1682-01C

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	604	5.0	mg/Kg
Bromide	7647-15-6	3.35	0.50	mg/Kg

Date Prepared: 3/19/08

Dilution Factor: 50

Date Analyzed: 3/19/08

Method Blank: MB-R37891

Lab Fraction ID: 08-1682-01C

Analytes	CAS Number	Result	LQL	Units
Sulfate	7778-80-2	994	25	mg/Kg



Analyst



Approved

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

Print Date: 3/20/08

Evergreen Analytical, Inc.

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

Client Sample ID: Schwake Pit 2.5-3.5
Client Project ID: Nelson Complaint
Date Collected: 3/12/08
Date Received: 3/13/08

Lab Work Order: 08-1682
Lab Sample ID: 08-1682-02
Sample Matrix: Soil

ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 3/19/08

Dilution Factor: 10

Date Analyzed: 3/19/08

Method Blank: MB-R37891

Lab Fraction ID: 08-1682-02C

Analytes	CAS Number	Result	LQL	Units
Bromide	7647-15-6	U	0.50	mg/Kg

Date Prepared: 3/19/08

Dilution Factor: 50

Date Analyzed: 3/19/08

Method Blank: MB-R37891

Lab Fraction ID: 08-1682-02C

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	792	25	mg/Kg

Date Prepared: 3/19/08

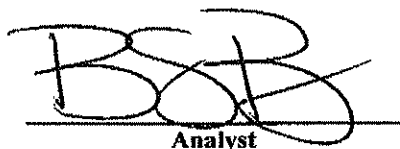
Dilution Factor: 100

Date Analyzed: 3/19/08

Method Blank: MB-R37891

Lab Fraction ID: 08-1682-02C

Analytes	CAS Number	Result	LQL	Units
Sulfate	7778-80-2	3280	50	mg/Kg


Analyst


Approved

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

Print Date: 3/20/08

Evergreen Analytical, Inc.

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

Client Sample ID: Nelson BG-01
Client Project ID: Nelson Complaint
Date Collected: 3/12/08
Date Received: 3/13/08

Lab Work Order: 08-1682
Lab Sample ID: 08-1682-03
Sample Matrix: Soil

ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 3/19/08

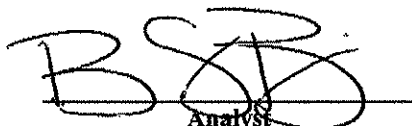
Dilution Factor: 10

Date Analyzed: 3/19/08

Method Blank: MB-R37891

Lab Fraction ID: 08-1682-03C

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	6.3	5.0	mg/Kg
Bromide	7647-15-6	U	0.50	mg/Kg
Sulfate	7778-80-2	13	5.0	mg/Kg


Analyst


Approved

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

Print Date: 3/20/08

QUALITY ASSURANCE REPORTS

METHOD BLANKS (MB, MEB)

LABORATORY CONTROL SPIKES (LCS)

MATRIX SPIKES (MS/MSD)*

DUPLICATES (DUP)*

***Only included if requested or if performed on this client's samples.**

Evergreen Analytical, Inc.

Date: 24-Mar-08

Work Order: 08-1682

Client Project ID: Nelson Complaint

ANALYTICAL QC SUMMARY REPORT

BatchID: 14979

Sample ID: MB-14979	SampType: MBLK	TestCode: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_080319A	Prep Date: 3/17/2008	Units: mg/L						
	Batch ID: 14979	TestNo: E200.7, Rev.	FileID: 031908PM	Analysis Date: 3/19/2008	SeqNo: 668060						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	0	0.387
Magnesium	0	0.150
Potassium	0	0.340
Sodium	0	0.400

Sample ID: LCS-14979	SampType: LCS	TestCode: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_080319A	Prep Date: 3/17/2008	Units: mg/L						
	Batch ID: 14979	TestNo: E200.7, Rev.	FileID: 031908PM	Analysis Date: 3/19/2008	SeqNo: 668061						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	10.45	0.387	10	0	104	74	120	0	0
Magnesium	10.64	0.150	10	0	106	76.7	120	0	0
Potassium	10.63	0.340	10	0	106	70.9	115	0	0
Sodium	10.74	0.400	10	0	107	80	120	0	0

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

Evergreen Analytical, Inc.

Date: 24-Mar-08

Work Order: 08-1682

Client Project ID: Nelson Complaint

ANALYTICAL QC SUMMARY REPORT

TestCode: COND_S

Sample ID: LCS	SampType: LCS	TestCode: COND_S	Run ID: COND_080321A	Prep Date: 3/21/2008	Units: µmhos/cm						
	Batch ID: R37940	TestNo: Dept of Ag.	FileID: 48	Analysis Date: 3/21/2008	SeqNo: 668955						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	10060	1.00	9956	0	101	90	110	0	0		

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

Work Order: 08-1682
Client Project ID: Nelson Complaint

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_S

Sample ID	LCS-R37750	SampType:	LCS	TestCode:	PH_S	Run ID:	PH_080313B	Prep Date:	3/13/2008	Units:	pH Units		
		Batch ID:	R37750	TestNo:	SW9045C	FileID:		Analysis Date:	3/13/2008	SeqNo:	665818		
Analyte		Result		LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		7.97		1.00	8	0	99.6	99.3	100.7	0	0		

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

Evergreen Analytical, Inc.

Date: 20-Mar-08

Work Order: 08-1682

Client Project ID: Nelson Complaint

ANALYTICAL QC SUMMARY REPORT

TestCode: ANIONS_S

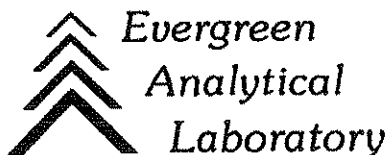
Sample ID: MB-R37891		SampType: MBLK		TestCode: ANIONS_S		Run ID: IC-DX300_080319A		Prep Date: 3/19/08		Units: mg/Kg	
		Batch ID: R37891		TestNo: E300.0		FileID:		Analysis Date: 3/19/08		SeqNo: 668206	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	U	0.50									
Bromide	U	0.20									
Sulfate	U	0.50									

Sample ID: LCS-R37891		SampType: LCS		TestCode: ANIONS_S		Run ID: IC-DX300_080319A		Prep Date: 3/19/08		Units: mg/Kg	
		Batch ID: R37891		TestNo: E300.0		FileID:		Analysis Date: 3/19/08		SeqNo: 668207	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	19.32	1.0	20	0	96.6	90	110	0	0		
Bromide	20.13	0.40	20	0	101	90	110	0	0		
Sulfate	29.94	1.0	30	0	99.8	90	110	0	0		

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



March 27, 2008

John Axelson
Colorado Oil & Gas Conservation Comm.
9203 E. 155th Dr
Brighton, CO 80602

Lab Work Order: 08-1682
Client Project ID: Nelson Complaint

Dear John Axelson:

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 one month from the date of this letter. 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,



Carl Smits / Kaprie Hollman
Technical Director of Chemical Analysis