

May 04, 2007

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

Lab Work Order: 07-2454
Client Project ID: Little Hoot-ERF

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

WORK ORDER Summary

Evergreen Analytical, Inc.

07-2454

Rpt To: John Axelsson

Fax To: John Axelsson

FX: (303) 637-7179

Colorado Oil & Gas Conservation

Comm.

9203 E. 155th Dr

Brighton, CO 80602

(303) 637-7178

4/20/07 4:53:26 PM

Client Project ID: Little Hoot-ERF

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
07-2454-01A	Little Hoot Well	Groundwater	4/19/07 1140	4/20/07	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	5/04/07	4/26/07
07-2454-01B	Little Hoot Well	Groundwater	4/19/07 1140	4/20/07	6020_D *	6020: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	5/04/07	10/16/07
07-2454-01C	Little Hoot Well	Groundwater	4/19/07 1140	4/20/07	ALK_WGRP *	Alkalinity	<input type="checkbox"/>	<input type="checkbox"/>	5/04/07	5/03/07
07-2454-01C	Little Hoot Well	Groundwater	4/19/07 1140	4/20/07	ANIONS_W *	3000: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	5/04/07	4/21/07
07-2454-01C	Little Hoot Well	Groundwater	4/19/07 1140	4/20/07	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	5/04/07	5/17/07
07-2454-01C	Little Hoot Well	Groundwater	4/19/07 1140	4/20/07	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	5/04/07	5/17/07
07-2454-01C	Little Hoot Well	Groundwater	4/19/07 1140	4/20/07	PH_DW	150.1: Drinking Water pH	<input type="checkbox"/>	<input type="checkbox"/>	5/04/07	4/20/07
07-2454-01C	Little Hoot Well	Groundwater	4/19/07 1140	4/20/07	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	5/04/07	4/26/07
07-2454-01D	Little Hoot Well	Groundwater	4/19/07 1140	4/20/07	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	5/04/07	4/26/07

Definitions: * - Test Code has a Select List

Data of

Evergreen Analytical Laboratory Inc.

Evergreen Analytical Laboratory Inc.

4036 Youngfield St.

**Wheat Ridge, Colorado 80033
(303) 425-6021**

FAX (303) 425-6854

e-mail info@evergreenanalytical.com

Subject to eumhamia & overactions noted in faa schadila

For Labo

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W.O.# 04-1

B.O.F. # _____

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Downloaded from <http://ajph.org/> on November 10, 2015

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Received by: (Signature) _____ Date: _____

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[illegible]

Client Project ID: Little Hoot-ERF

Lab Order: 07-2454

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 4.0 °C.
Sample(s) were received in good condition, in the proper container.
The sample for pH was received out of holding time.
VOC sample(s) were received with no headspace present. NJO

QUALITY ASSURANCE

Analyses performed on samples in this work order 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. SG

GENERAL CHEMISTRY

The pH required analysis out of holding time (H). There are no other anomalies to report. MM/CMS

METALS ANALYSIS

There are no anomalies to report. WKH

GAS CHROMATOGRAPHY

Method 8021_W: There are no anomalies to report. JT

Method RSK175: The QC includes an LCS/LCSD due to limited sample to use for matrix spikes.
There are no other anomalies to report. JT/JM

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

Client Sample ID: Little Hoot Well
Client Project ID: Little Hoot-ERF
Date Collected: 4/19/07
Date Received: 4/20/07

Lab Work Order: 07-2454
Lab Sample ID: 07-2454-01A
Sample Matrix: Groundwater

AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 4/23/07

Lab File ID: TVB20423\019R

Dilution Factor: 1

Date Analyzed: 4/23/07

Method Blank: MB2042307

Analytes	CAS Number	Result	LQL	Units
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	79	QC Limits: 60-140	%REC



Analyst



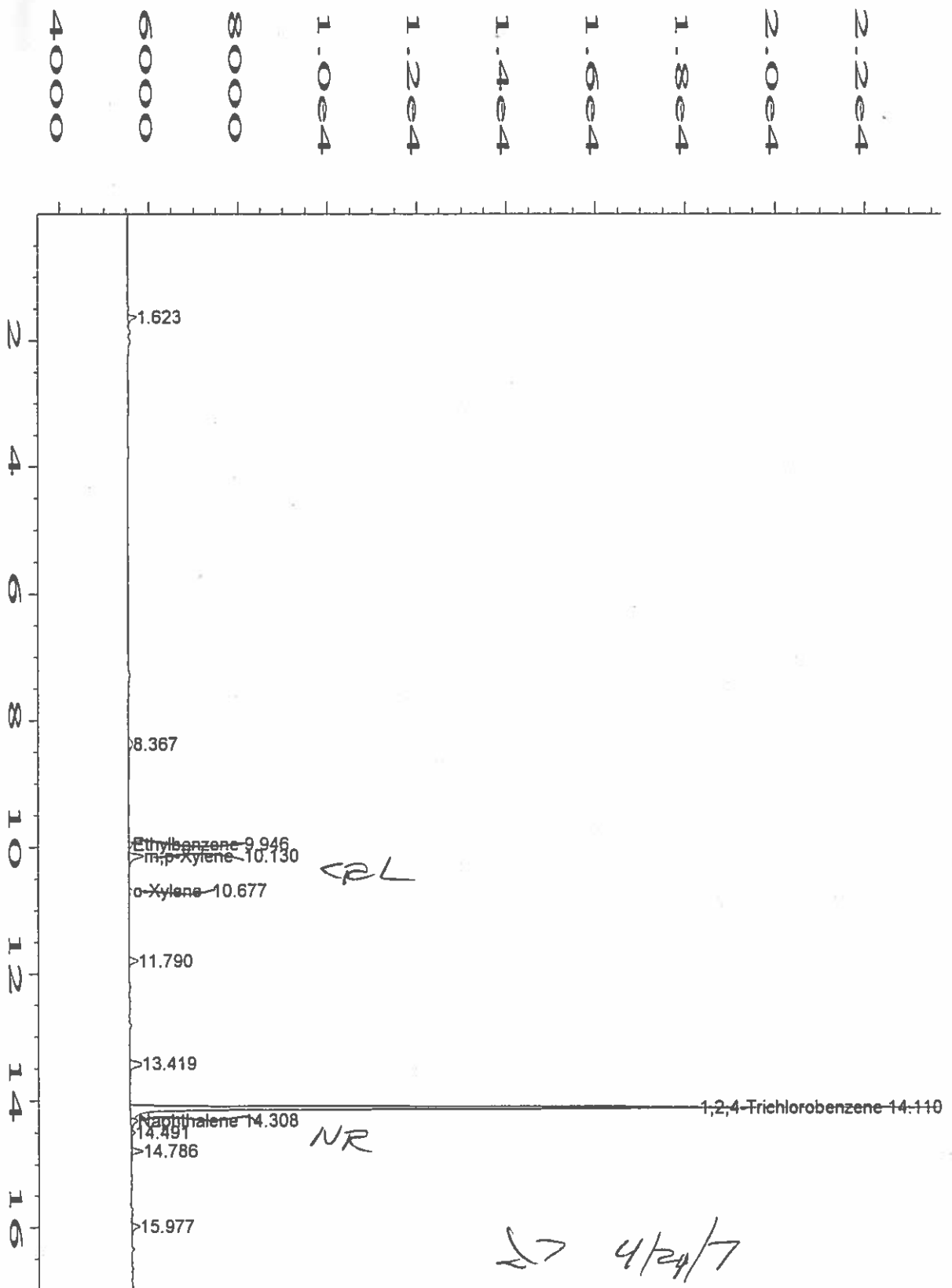
Approved

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: 4/24/07



Data File Name	: C:\HPCHEM\2\DATA\TVB20423\019R0101.D	Page Number	: 1
Operator	: JTRAVIS	Vial Number	: 19
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 07-2454-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TW20202.MTH
Acquired on	: 23 Apr 07 08:24 PM	Analysis Method	: BW20305.MTH
Report Created on:	23 Apr 07 08:42 PM	Sample Amount	: 0
Last Recalib on	: 06 MAR 07 09:19 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: Little Hoot Well
Client Project ID: Little Hoot-ERF
Date Collected: 4/19/07
Date Received: 4/20/07

Lab Work Order: 07-2454
Lab Sample ID: 07-2454-01
Sample Matrix: Groundwater

DISSOLVED METALS

Method: SW6020

Prep Method: SW6020

Date Prepared: 4/24/07
Date Analyzed: 4/25/07

Lab File ID: 070425A.B\039SMPL.D
Method Blank: MB-12377

Dilution Factor: 1
Lab Fraction ID: 07-2454-01B

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	5.8	0.40	mg/L
Iron	7439-89-6	U	0.20	mg/L
Manganese	7439-96-5	0.011	0.010	mg/L
Potassium	7440-09-7	3.4	0.13	mg/L

Date Prepared: 4/24/07
Date Analyzed: 4/26/07

Lab File ID: 070426A.B\029SMPL.D
Method Blank: MB-12377

Dilution Factor: 20
Lab Fraction ID: 07-2454-01B

Analytes	CAS Number	Result	LQL	Units
Magnesium	7439-95-4	2.3	1.0	mg/L
Sodium	7440-23-5	240	10	mg/L



Analyst



Approved

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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: 4/27/07

2007

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

Client Sample ID: Little Hoot Well
Client Project ID: Little Hoot-ERF
Date Collected: 4/19/07 1140
Date Received: 4/20/07

Lab Work Order: 07-2454
Lab Sample ID: 07-2454-01
Sample Matrix: Groundwater

ALKALINITY

Method: SM2320B

Prep Method:

Date Prepared: 5/1/07
Date Analyzed: 5/1/07

Lab File ID: 10
Method Blank: MBLK

Dilution Factor: 1
Lab Fraction ID: 07-2454-01C

Analytes	CAS Number	Result	LQL	Units
Total Alkalinity		487	5.0	mg/L CaCO ₃
Bicarbonate		439	5.0	mg/L CaCO ₃
Carbonate		47.8	5.0	mg/L CaCO ₃

SPECIFIC CONDUCTANCE @ 25°C

Method: SM2510 B

Prep Method:

Date Prepared: 4/23/07
Date Analyzed: 4/23/07

Lab File ID: 66

Dilution Factor: 1
Lab Fraction ID: 07-2454-01C

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		937	1.00	µmhos/cm

FLUORIDE

Method: SM 4500-F C

Prep Method:

Date Prepared: 4/26/07
Date Analyzed: 4/26/07

Lab File ID: 13
Method Blank: MBLK

Dilution Factor: 1
Lab Fraction ID: 07-2454-01C

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	1.4	0.20	mg/L

E150.1 PH

Method: E150.1

Prep Method:

Date Prepared: 4/23/07
Date Analyzed: 4/23/07 1035

Dilution Factor: 1
Lab Fraction ID: 07-2454-01C

Analytes	CAS Number	Result	LQL	Units
pH		8.73 H	1.00	pH Units



Analyst



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

Print Date: 5/1/07

001
001
001

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

Client Sample ID: Little Hoot Well
Client Project ID: Little Hoot-ERF
Date Collected: 4/19/07 1140
Date Received: 4/20/07

Lab Work Order: 07-2454
Lab Sample ID: 07-2454-01
Sample Matrix: Groundwater

TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

Prep Method:

Date Prepared: 4/24/07
Date Analyzed: 4/25/07 0000

Lab File ID: 3
Method Blank: MBLK

Dilution Factor: 1
Lab Fraction ID: 07-2454-01C

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		642	10.0	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
* - 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: 5/1/07

Evergreen Analytical, Inc.

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

Client Sample ID: Little Hoot Well
Client Project ID: Little Hoot-ERF
Date Collected: 4/19/07 1140
Date Received: 4/20/07

Lab Work Order: 07-2454
Lab Sample ID: 07-2454-01
Sample Matrix: Groundwater

ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 4/20/07
Date Analyzed: 4/20/07 1909

Method Blank: METHOD BLANK

Dilution Factor: 1
Lab Fraction ID: 07-2454-01C

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	18.3	0.50	mg/L
Nitrite-N		U	0.076	mg/L
Bromide	7647-15-6	0.310	0.050	mg/L
Nitrate-N		U	0.056	mg/L
Sulfate	7778-80-2	52.6	0.50	mg/L



Analyst



Approved

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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: 4/24/07

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

Client Project ID Little Hool-ERF
Lab Order: 07-2454
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
07-2454-01D	Little Hool Well	Groundwater	4/20/07	4/19/07	4/26/07	4/26/07	2.7	0.020	25

Comments:

87
Analyst

Approved

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

U - Sample analysis exceeded analytical holding time

X - Compound analyzed for but not detected

- 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: 4/26/07

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.**

Work Order: 07-2454
Client Project ID: Little Hool-ERF

ANALYTICAL QC SUMMARY REPORT

BatchID: R31221

Sample ID: MB2042307	Sample Type: MBLK	Test Code: 8021_W	Run ID: TVHBTX2_070423A	Prep Date: 4/23/07	Units: µg/L
Batch ID: R31221	Test No: SW8021B	File ID: TVB204231003R	Analysis Date: 4/23/07	SeqNo: 554807	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

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)	89.06	0	100	0	89.1 60 140 0 0

Sample ID: LCS2042307	Sample Type: LCS	Test Code: 8021_W	Run ID: TVHBTX2_070423A	Prep Date: 4/23/07	Units: µg/L
Batch ID: R31221	Test No: SW8021B	File ID: TVB204231004R	Analysis Date: 4/23/07	SeqNo: 554808	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Benzene	26.9	1.0	25.5	0	106	70	130	0	0
Toluene	178.4	2.0	183.6	0	97.2	70	130	0	0
Ethylbenzene	38.12	2.0	36.8	0	104	70	130	0	0
m,p-Xylene	155.6	2.0	136.3	0	114	70	130	0	0
o-Xylene	59.3	2.0	57.2	0	104	70	130	0	0
Surr: 1,2,4-Trichlorobenzene (S)	107	0	100	0	107	60	140	0	0

Sample ID: 07-2448-02AMS	Sample Type: MS	Test Code: 8021_W	Run ID: TVHBTX2_070423A	Prep Date: 4/23/07	Units: µg/L
Batch ID: R31221	Test No: SW8021B	File ID: TVB204231008R	Analysis Date: 4/23/07	SeqNo: 554812	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Benzene	26.53	1.0	25.5	0	104	70	130	0	0
Toluene	175.2	2.0	183.6	0	95.4	70	130	0	0
Ethylbenzene	36.94	2.0	36.8	0	100	62	130	0	0
m,p-Xylene	151.8	2.0	136.3	0	111	70	134	0	0
o-Xylene	57.41	2.0	57.2	0	100	63	130	0	0
Surr: 1,2,4-Trichlorobenzene (S)	108.5	0	100	0	109	60	140	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: 07-2454
Client Project ID: Little Hool-ERF

ANALYTICAL QC SUMMARY REPORT

BatchID: R31221

Sample ID: 07-2448-02AMSD	Sample Type: MSD	Test Code: 8021_W	Run ID: TVHBTX2_070423A	Prep Date: 4/23/07	Units: µg/L						
Batch ID: R31221	Test No: SW8021B	File ID: TVB204231009R	Analysis Date: 4/23/07	Seq No: 554813							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	26.79	1.0	25.5	0	105	70	130	26.53	0.983	30	
Toluene	175.8	2.0	183.6	0	95.8	70	130	175.2	0.327	30	
Ethylbenzene	37.1	2.0	36.8	0	101	62	130	36.94	0.438	30	
m,p-Xylene	150.8	2.0	136.3	0	111	70	134	151.8	0.645	30	
o-Xylene	57.52	2.0	57.2	0	101	63	130	57.41	0.188	30	
Surf: 1,2,4-Trichlorobenzene (S)	106.2	0	100	0	106	60	140	0	0	0	

Qualifiers:

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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
N - See case narrative

Work Order: 07-2454
Client Project ID: Little Hoot-ERF

ANALYTICAL QC SUMMARY REPORT

BatchID: 12377

Sample ID: MB-12377	Sample Type: MBLK	TestCode: 6020_WT	Run ID: ICPMS_070425A	Prep Date: 4/24/07	Units: mg/L						
Batch ID: 12377	TestNo: SW6020	FileID: 070425A.B1020SMPL.D	Analysis Date: 4/25/07	SeqNo: 555449							
Analyte	Result	LQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual

Calcium	0	0.40									
Iron	0	0.20									
Magnesium	0	0.050									
Manganese	0	0.010									
Potassium	0	0.13									
Sodium	0	0.50									

Sample ID: LCS-12377	SampleType: LCS	TestCode: 6020_WT	Run ID: ICPMS_070425A	Prep Date: 4/24/07	Units: mg/L						
Batch ID: 12377	TestNo: SW6020	FileID: 070425A.B1021SMPL.D	Analysis Date: 4/25/07	SeqNo: 555450							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	3.23	0.40	3	0	108	88	116	0	0		
Iron	3.012	0.20	3	0	100	86.4	116	0	0		
Magnesium	2.988	0.050	3	0	99.6	83.2	123	0	0		
Manganese	0.5815	0.010	0.6	0	96.9	85.1	112	0	0		
Potassium	2.85	0.13	3	0	95	79.9	115	0	0		
Sodium	2.93	0.50	3	0	97.7	77.9	122	0	0		

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E - Extrapolated value, value exceeds calibration range
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H - Prep or analytical holding time exceeded
X - See case narrative

Evergreen Analytical, Inc.

Date: 01-May-07

Work Order: 07-2454

Client Project ID: Little Hoot-ERF

ANALYTICAL QC SUMMARY REPORT

TestCode: ALK_WGRP

Sample ID: MBLK	SampType: MBLK	TestCode: ALK_WGRP	Run ID: ALK_070501A	Prep Date: 5/1/07	Units: mg/L CaCO3
Batch ID: R31373	TestNo: SM2320B	FileID: 1	Analysis Date: 5/1/07	SeqNo: 557102	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Alkalinity U 5.0
 Bicarbonate U 5.0
 Carbonate U 5.0
 Hydroxide U 5.0

Sample ID: MBLK	SampType: MBLK	TestCode: ALK_WGRP	Run ID: ALK_070501A	Prep Date: 5/1/07	Units: mg/L CaCO3
Batch ID: R31373	TestNo: SM2320B	FileID: 1	Analysis Date: 5/1/07	SeqNo: 557129	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Alkalinity U 5.0
 Bicarbonate U 5.0
 Carbonate U 5.0
 Hydroxide U 5.0

Sample ID: LCS	SampType: LCS	TestCode: ALK_WGRP	Run ID: ALK_070501A	Prep Date: 5/1/07	Units: mg/L CaCO3
Batch ID: R31373	TestNo: SM2320B	FileID: 2	Analysis Date: 5/1/07	SeqNo: 557103	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Alkalinity 98.67 5.0 100 0 98.7 90 110 0 0

Sample ID: LCS	SampType: LCS	TestCode: ALK_WGRP	Run ID: ALK_070501A	Prep Date: 5/1/07	Units: mg/L CaCO3
Batch ID: R31373	TestNo: SM2320B	FileID: 2	Analysis Date: 5/1/07	SeqNo: 557130	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Alkalinity 100.1 5.0 100 0 100 90 110 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: 07-2454
Client Project ID: Little Hoot-ERF

ANALYTICAL QC SUMMARY REPORT

TestCode: COND_W

Sample ID: LCS	SampleType: LCS	TestCode: COND_W	Run ID: COND_070423A	Prep Date: 4/23/07	Units: µmhos/cm
	Batch ID: R31189	TestNo: SM2510 B	FieldID: 47	Analysis Date: 4/23/07	SeqNo: 554388
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Specific Conductance	92.1	1.00	99.3	0	92.7 90 110 0 0

Qualifiers:

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Work Order: 07-2454
Client Project ID: Little Hool-ERF

ANALYTICAL QC SUMMARY REPORT

TestCode: F_W

Sample ID: MBLK	Sample Type: MBLK	TestCode: F_W	Run ID: F_070426A	Prep Date: 4/26/07	Units: mg/L
	Batch ID: R31288	TestNo: SM 4500-F C	FileID: 1	Analysis Date: 4/26/07	SeqNo: 555596
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Fluoride U 0.20

Sample ID: LCS	Sample Type: LCS	TestCode: F_W	Run ID: F_070426A	Prep Date: 4/26/07	Units: mg/L
	Batch ID: R31288	TestNo: SM 4500-F C	FileID: 2	Analysis Date: 4/26/07	SeqNo: 555597
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	9.987	0.20	10	0	99.9 95 105 0 0

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Work Order: 07-2454

Client Project ID: Little Hoot-ERF

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_DW

Sample ID: LCS-R31190	Sample Type: LCS	TestCode: PH_DW	Run ID: PH_070423A	Prep Date: 4/23/07	Units: pH Units
	Batch ID: R31190	TestNo: E150.1	FileID:	Analysis Date: 4/23/07	SeqNo: 554417
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

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Work Order: 07-2454
Client Project ID: Little Hoot-ERF

ANALYTICAL QC SUMMARY REPORT

TestCode: TDS_W

Sample ID: MBLK	SamplType: MBLK	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_070425A	Prep Date: 4/24/07	Units: mg/L
	Batch ID: R31265	TestNo: SM 2540C	FileID: 1	Analysis Date: 4/25/07	SeqNo: 555329
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	SamplType: LCS	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_070425A	Prep Date: 4/24/07	Units: mg/L
	Batch ID: R31265	TestNo: SM 2540C	FileID: 2	Analysis Date: 4/25/07	SeqNo: 555330
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Dissolved Solids 389 10.0 400 0 97.3 90 110 0 0

- Qualifiers:**
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Work Order: 07-2454
Client Project ID: Little Hool-ERF

ANALYTICAL QC SUMMARY REPORT

TestCode: ANIONS_W

Sample ID: METHOD BLANK	SampleType: MBLK	TestCode: ANIONS_W	Run ID: IC-DX120_070420B	Prep Date: 4/20/07	Units: mg/L
Batch ID: R31187	TestNo: E300.0	FileID:	Analysis Date: 4/20/07	SeqNo: 554371	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chloride	U	0.50			
Nitrite-N	U	0.076			
Bromide	U	0.050			
Nitrate-N	U	0.056			
Sulfate	U	0.50			

Sample ID: LCS ALLT170101	SampleType: LCS	TestCode: ANIONS_W	Run ID: IC-DX120_070420B	Prep Date: 4/20/07	Units: mg/L
Batch ID: R31187	TestNo: E300.0	FileID:	Analysis Date: 4/20/07	SeqNo: 554370	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chloride	19.2	1.0	20	0	96	90	110	0	0
Nitrite-N	5.825	0.15	6.09	0	95.6	90	110	0	0
Bromide	19.96	0.10	20	0	99.8	90	110	0	0
Nitrate-N	4.376	0.11	4.518	0	96.8	90	110	0	0
Sulfate	27.76	1.0	30	0	92.5	90	110	0	0

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Work Order: 07-2454
Client Project ID: Little Hoot-ERF

ANALYTICAL QC SUMMARY REPORT

BatchID: GAS042607

Sample ID: GB042607	Sample Type: MBLK	Test Code: MEEP_W	Run ID: FID4_070426A	Prep Date: 4/26/07	Units: mg/L
Batch ID: GAS042607	Test No: RSKSOP175	FileID: GAS0426004	Analysis Date: 4/26/07	SeqNo: 555736	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Methane	U	0.00080			
Sample ID: LCS042607	Sample Type: LCS	Test Code: MEEP_W	Run ID: FID4_070426A	Prep Date: 4/26/07	Units: mg/L
Batch ID: GAS042607	Test No: RSKSOP175	FileID: GAS0426005	Analysis Date: 4/26/07	SeqNo: 555737	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Methane	0.5529	0.0080	0.5094	0	109	70	130	0	0	
Sample ID: LCS042607	Sample Type: LCS	Test Code: MEEP_W	Run ID: FID4_070426A	Prep Date: 4/26/07	Units: mg/L					
Batch ID: GAS042607	Test No: RSKSOP175	FileID: GAS0426005	Analysis Date: 4/26/07	SeqNo: 555738						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual					
Methane	0.5572	0.0080	0.5094	0	109	70	130	0.5529	0.770	30

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Evergreen Analytical Laboratory



4036 Youngfield Street
Wheat Ridge, CO 80033-3862

(303) 425-6021
FAX (303) 425-6854

INVOICE 07050128

Invoice Date: May 04, 2007

Invoice To: Colorado Oil & Gas Conservation Comm.
9203 E 155th Dr
Brighton, CO 80602

Attn: John Axelson
Phone: (303) 697-7178

MAIL PAYMENTS TO:
Evergreen Analytical Laboratory
Dept. 1819
Denver, CO 80291-1819

Client Project ID: Little Hoot-ERF
Date Samples Received: 4/20/07

Agmt No:
PO Number:

Work Order: 07-2454
QuoteID: 8204

Item	Matrix	Qty	Unit Price	Unit Surcharge	Total Unit Price	Extended Price
300.0: Anions by IC	Groundwater	1	\$110.00	0%	\$110.00	\$110.00
6020 Metals, Dissolved, Aqueous	Groundwater	1	\$112.00	0%	\$112.00	\$112.00
Alkalinity	Groundwater	1	\$50.00	0%	\$50.00	\$50.00
BTEX List Aqueous	Groundwater	1	\$60.00	0%	\$60.00	\$60.00
E150.1 pH	Groundwater	1	\$10.00	0%	\$10.00	\$10.00
Fluoride	Groundwater	1	\$22.00	0%	\$22.00	\$22.00
RSK175: Methane Gases Aqueous	Groundwater	1	\$80.00	0%	\$80.00	\$80.00
Specific Conductance @ 25°C	Groundwater	1	\$20.00	0%	\$20.00	\$20.00
Total Dissolved Solids (TDS)	Groundwater	1	\$25.00	0%	\$25.00	\$25.00

Sub total: \$489.00
Surcharge: 0.00%
Discount: 0.00%
Misc: \$0.00

Invoice Total \$489.00

Prepayment: \$0.00

Balance Due: \$489.00

Comments:

I HEREBY CERTIFY THAT I HAVE RECEIVED THE
ARTICLES LISTED ABOVE, THAT I HAVE CAREFULLY
INSPECTED, WEIGHED, COUNTED, AND FOUND THE
COMMODITIES AND FOUND THEM TO BE IN GOOD
CONDITION AND COMPLYING WITH THE ORDER
OR THAT THE SERVICES RENDERED ARE IN EXCEPT
AS NOTED.

 5/8/07
SIGNATURE DATE

FEIN	84-0906043	WE ARE AN EQUAL OPPORTUNITY EMPLOYER
TERMS	NET 30 Days. A 1.5% service charge will be added to all past due accounts. THANK YOU FOR YOUR BUSINESS	