



May 20, 2004

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

Lab Work Order: 04-3117  
Client Project ID: Reggie#1

Dear Randall Ferguson:

Enclosed are the analytical results and invoice for the samples shown in the Laboratory Work Order Summary.

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  
Technical Director of Chemical Analysis



# WORK ORDER Summary

## Evergreen Analytical, Inc.

04-3117

Rpt To: Randall Ferguson

Fax To: Randall Ferguson

FX: (303) 894-2109 PH: (303) 894-2100

Colorado Oil & Gas Conservation  
Comm.

1120 Lincoln St #801

Denver, CO 80203-

(303) 894-2100

Client Project ID: Reggie#1

QC Level: Level I

5/17/04 1:15:48 PM

### Comments:

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Storage	Test Code	Test Name	Hold MS	Date Due	Hold Time
04-3117-01A	Spill Area-NE	Soil	5/6/04	5/7/04	B4	418.1_S	Total Recoverable Petroleum Hydrocarbons (TRPH)	<input type="checkbox"/>	5/21/04	6/3/04
04-3117-02A	Discharge Area-NW	Soil	5/6/04	5/7/04	B4	418.1_S	Total Recoverable Petroleum Hydrocarbons (TRPH)	<input type="checkbox"/>	5/21/04	6/3/04
04-3117-02A	Discharge Area-NW	Soil	5/6/04	5/7/04	B4	PH_S	pH	<input type="checkbox"/>	5/21/04	6/3/04
04-3117-02B	Discharge Area-NW	Soil	5/6/04	5/7/04	B4	6010_D_*	6010 Dissolved Metals	<input type="checkbox"/>	5/21/04	11/2/04
04-3117-02B	Discharge Area-NW	Soil	5/6/04	5/7/04	B4	COND_S	Specific Conductance @ 25°C	<input type="checkbox"/>	5/21/04	6/3/04
04-3117-02B	Discharge Area-NW	Soil	5/6/04	5/7/04	B4	SAR_S	Sodium Adsorption Ratio, Soil Leachate	<input type="checkbox"/>	5/21/04	11/2/04

Definitions: \* - Test Code has a Select List



**Client Project ID:** Reggie#1

**Lab Order:** 04-3117

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**CASE NARRATIVE**

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**SAMPLE RECEIVING**

Samples were received in good condition within method specified holding times.

Samples were hand delivered to the laboratory by the client.

Samples did not require preservation.

The temperature of the sample(s) upon arrival was 6° C. JD

**QUALITY ASSURANCE**

Analyses performed on samples in this work order meet the requirements of the EAL Quality Assurance Program. Analyses of RCRA samples meet the requirements of NELAC and Utah Rule R444-14. CMS

**CLIENT SERVICES**

There are no anomalies to report. AMU

**GENERAL CHEMISTRY**

There are no anomalies to report. MM

**METALS ANALYSIS**

SAR : There are no anomalies to report. MA

20  
4

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

**Client Project ID** Reggie#1  
**Collection Date:** 5/6/04

**Lab Order:** 04-3117  
**Date Received:** 5/7/04  
**Units:** mg/Kg


**Total Recoverable Petroleum Hydrocarbons (TRPH)**  
**TRPH**

**Method: E418.1**

**Prep Method:**

Lab ID	Client ID	Matrix	Date Prepared	Date Analyzed	Results	LQL	DF
04-3117-01A	Spill Area-NE	Soil	5/10/04	5/10/04	26000	330	100
04-3117-02A	Discharge Area-NW	Soil	5/10/04	5/10/04	40000	660	200

**Comments** Blank value subtracted

  
\_\_\_\_\_  
**Analyst**

  
\_\_\_\_\_  
**Approved**

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative

**Definitions:** DF - Dilution Factor  
LQL - Lower Quantitation Limit

Print Date: 5/17/04

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

Client Sample ID: Discharge Area-NW  
Client Project ID: Reggie#1  
Date Collected: 5/6/04  
Date Received: 5/7/04

Lab Work Order 04-3117  
Lab Sample ID: 04-3117-02  
Sample Matrix: Soil

**SPECIFIC CONDUCTANCE @ 25°C**

Method: Dept of Ag.

Prep Method:

Date Prepared: 5/12/04  
Date Analyzed: 5/13/04

Lab File ID: 31

Dilution Factor: 1  
Lab Fraction ID: 04-3117-02B

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		24900	1.00	µmhos/cm

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

**PH**

Method: SW9045C

Prep Method:

Date Prepared: 5/11/04  
Date Analyzed: 5/11/04

Dilution Factor: 1  
Lab Fraction ID: 04-3117-02A

Analytes	CAS Number	Result	LQL	Units
pH		8.06	1.00	pH Units

Comments:



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 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)

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

Print Date: 5/17/04

25  
31

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

**Client Sample ID:** Discharge Area-NW  
**Client Project ID:** Reggie#1  
**Date Collected:** 5/6/04  
**Date Received:** 5/7/04

**Lab Work Order:** 04-3117  
**Lab Sample ID:** 04-3117-02  
**Sample Matrix:** Soil

**6010 DISSOLVED METALS, WATER**

**Method:** SW6010

**Prep Method:** E200.7/SW3010

**Date Prepared:** 5/13/04  
**Date Analyzed:** 5/13/04

**Lab File ID:** 51304PM1  
**Method Blank:** MB-4577

**Dilution Factor:** 1  
**Lab Fraction ID:** 04-3117-02B

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	140	1.9	mg/L
Magnesium	7439-95-4	34	0.75	mg/L
Sodium	7440-23-5	5000	2.0	mg/L

**SODIUM ADSORPTION RATIO, SOIL**

**Method:** USDA

**Prep Method:**

**Date Prepared:** 5/13/04  
**Date Analyzed:** 5/18/04

**Dilution Factor:** 1  
**Lab Fraction ID:** 04-3117-02B

Analytes	CAS Number	Result	LQL	Units
Sodium-Adsorption-Ratio		98	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 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)

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

Print Date: 5/18/04

Work Order: 04-3117  
Client Project ID: Reggie#1

## ANALYTICAL QC SUMMARY REPORT

BatchID: 4577

Sample ID: MB-4577	SampType: MBLK	TestCode: 200.7_T	Run ID: ICP_040513A	Prep Date: 5/13/04	Units: mg/L						
	Batch ID: 4577	TestNo: E200.7	FileID: 51304PM1	Analysis Date: 5/13/04	SeqNo: 186500						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: LCS-4577		SampType: LCS		TestCode: 200.7_T		Run ID: ICP_040513A		Prep Date: 5/13/04		Units: mg/L	
		Batch ID: 4577		TestNo: E200.7		FileID: 51304PM1		Analysis Date: 5/13/04		SeqNo: 186501	
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qual
Calcium		9.519	0.39	10	0	95.2	75	125	0	0	
Magnesium		9.667	0.15	10	0.014	96.7	75	125	0	0	
Sodium		9.284	0.40	10	0.292	92.8	75	125	0	0	

## Qualifiers:

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits  
B - Analyte detected in the associated Method Blank  
H - Sample exceeded analytical holding time

Print Date: 5/18/04



# Evergreen Analytical Laboratory



4036 Youngfield Street  
Wheat Ridge, CO 80033-3862

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

## INVOICE 04050510

Invoice Date: May 20, 2004

Invoice To: Colorado Oil & Gas Conservation Comm.  
1120 Lincoln St #801  
Denver, CO 80203-

Attn:  
Phone: (303) 894-2100

Client Project ID: Reggie#1  
Date Samples Received: 5/7/04

Work Order: 04-3117  
PO Number:

QuoteID:



Item	Matrix	Qty	Unit Price	Unit Surcharge	Total Unit Price	Extended Price
pH	Soil	1	\$20.00	0%	\$20.00	\$20.00
Sodium Absorption Ratio for Soils	Soil	1	\$116.00	0%	\$116.00	\$116.00
Specific Conductance @ 25°C	Soil	1	\$20.00	0%	\$20.00	\$20.00
Total Recoverable Petroleum Hydrocarbons (TRPH)	Soil	2	\$60.00	0%	\$60.00	\$120.00

Reggie #1  
Dettler O & G  
NOAV # 01126718  
Morgan County

Sub total: \$276.00  
Surcharge: 0.00%  
Discount: 0.00%  
Misc: \$0.00

**Invoice Total \$276.00**

Prepayment: \$0.00

**Balance Due: \$276.00**

Comments:

I HEREBY CERTIFY THAT I HAVE RECEIVED THE  
ARTICLES LISTED ABOVE THAT I HAVE CAREFULLY  
INSPECTED, WEIGHTED, COUNTED OR MEASURED THE  
COMMODITIES AND FOUND THEM IN GOOD CONDITION  
AND COMPLYING WITH THE SPECIFICATIONS GIVEN  
OR THAT THE SERVICES WERE SATISFACTORY, EXCEPT  
AS NOTED.

  
SIGNATURE DATE 5/25/04

**-Original Invoice-  
Forward to  
Accounts Payable**

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

