



March 10, 2003

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

Lab Work Order: 03-1066
Client Project: KERN 43-33

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

This report contains a total of 9 pages including the cover letter.

Evergreen Analytical, Inc.**Date:** 10-Mar-03

CLIENT: Colorado Oil & Gas Conservation Comm.
Project: KERN 43-33
Lab Order: 03-1066

CASE NARRATIVE**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 17° C. JD

CLIENT SERVICES

There are no anomalies to report. TMB

GENERAL CHEMISTRY

There are no anomalies to report. MM

METALS ANALYSIS

There are no anomalies to report. WKH

Evergreen Analytical, Inc.

03-1066

WORK ORDER Summary

2/24/03 9:12:09 AM

Report To: Randall Ferguson
 Colorado Oil & Gas Conservation Com
 1120 Lincoln St #801
 Denver, CO 80203-

Phone: (303) 894-2100
Fax: (303) 894-2109 **Ext:** 118
E-mail:

Client Project ID: KERN 43-33

QC Level: LEVEL I

Comments:

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Storage	Test Code	Test Name	Hold	MS	Date Due	Hold Time
03-1066-01A	Spill Area N	Soil	2/19/03	2/22/03	B2	418.1_S	Total Recoverable Petroleum Hydrocarbons (TRPH)	<input type="checkbox"/>	<input type="checkbox"/>	3/10/03	3/19/03
03-1066-01A	Spill Area N	Soil	2/19/03	2/22/03	B2	PH_S	pH	<input type="checkbox"/>	<input type="checkbox"/>	3/10/03	3/19/03
03-1066-01B	Spill Area N	Soil	2/19/03	2/22/03	B2	6010_D *	6010 Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	3/10/03	8/18/03
03-1066-01B	Spill Area N	Soil	2/19/03	2/22/03	B2	COND_S	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	3/10/03	3/19/03
03-1066-01B	Spill Area N	Soil	2/19/03	2/22/03	B2	SAR_S	Sodium Adsorption Ratio, Soil Leachate	<input type="checkbox"/>	<input type="checkbox"/>	3/10/03	8/18/03

Definitions: * - Test Code has a Select List

CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES REQUEST

Page 1 of 1

Evergreen Analytical Inc.



4036 Youngfield St.
Wheat Ridge, Colorado 80033
(303) 425-6021
FAX (303) 425-6854
(800) 845-7400
E-Mail info@EvergreenAnalytical.com

Report Results by: _____ (Date)*

Standard 2 working weeks ☒

3 day UST Analyses per Fee Schedule ☐

Report per 1999 OIS Guidelines ☐ Yes ☐ No

* Rush: ☐ 24 hrs ☐ 1 - 2 work days

☐ 3 - 5 work days ☐ 6 - 9 work days

*Rush analysis subject to additional fee

COMPANY COGCC
ADDRESS 1120 Lincoln St 801
CITY Denver STATE CO ZIP 80203
PHONE# 303-894-2100 FAX# 303-894-2109

REPORT TO (Mr/Ms) Randall Ferguson

INVOICE TO SAA

PROJECT I.D. KERN 43-33

P.O. # _____ EAL QUOTE # _____

Sampler Name:

(print) Randall Ferguson

(signature) Randall Ferguson

Please **PRINT**

all information:

SAMPLE IDENTIFICATION DATE SAMPLED TIME

Spill Area N 2/19/03 AM 2

MATRIX

No. of Containers

Water-Drinking/Discharge/Ground (circle)

Soil Solid / Air / Gas

Oil / Sludge / Multi-phase

TCLP VOA/BNA/Pest/Herb/Metals (circle)

VOA 8260/624/524.2 (circle)

BNA 8270/625 (circle)

Pesticides 8080/608 (circle)

Pest/PCBs 8080/608/508 (circle)

PCB Screen 8080 mod.

Herbicides 8150/515 (circle)

BTEX 8020/602 (circle)/MTBE (circle)

TVPH 8015mod. (Gasoline)

TEPH 8015mod. (Diesel)

Total Metals-DW / NPDES / SW846 (circle & list metals below)

Dissolved Metals - DW / SW846 (circle & list metals below)

Oil & Grease 413.1

TRPH 418.1

SAR

ER

PH

ANALYSIS REQUESTED

For Laboratory use only

W.O.# 03-1066

B.O.F.# NA

C/S (O) NA / NA

C/S (I) NA / HD

Cooler Temp. °C 170

Seals Present Y / N / NA

Seals Intact Y / N

Samples Pres. Y / N / NA

Headspace Y / N / NA

By JP

Sample Fraction

Instructions:

Container

Loc B2

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Randall Ferguson

2/22/03
10:30 AM

Chantel L. Lee

2/22/03
10:30 AM

Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862

(303) 425-6021

Client: Colorado Oil & Gas Conservation Comm.
Project ID: KERN 43-33
Collection Date: 2/19/2003

Lab Order: 03-1066
Date Received: 2/22/2003
Units: mg/Kg

Total Recoverable Petroleum Hydrocarbons (TRPH)

Method: E418.1

TRPH

Lab ID	Client ID	Matrix	Date Prepared	Date Analyzed	Results	LQL	DF
03-1066-01A	Spill Area N	Soil	2/28/2003	2/28/2003	22000	330	100

Comments Blank value subtracted

ms

Analyst

uep

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

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
BY EPA METHOD 418.1

DATE TIME
03/02/28 13:32

Project #
02-1066

Sample #
1.000

Client sample #
Spill Area W

Matrix : soil

Weight of soil (g) extracted
30.000

Final extract volume (mL)
100.000

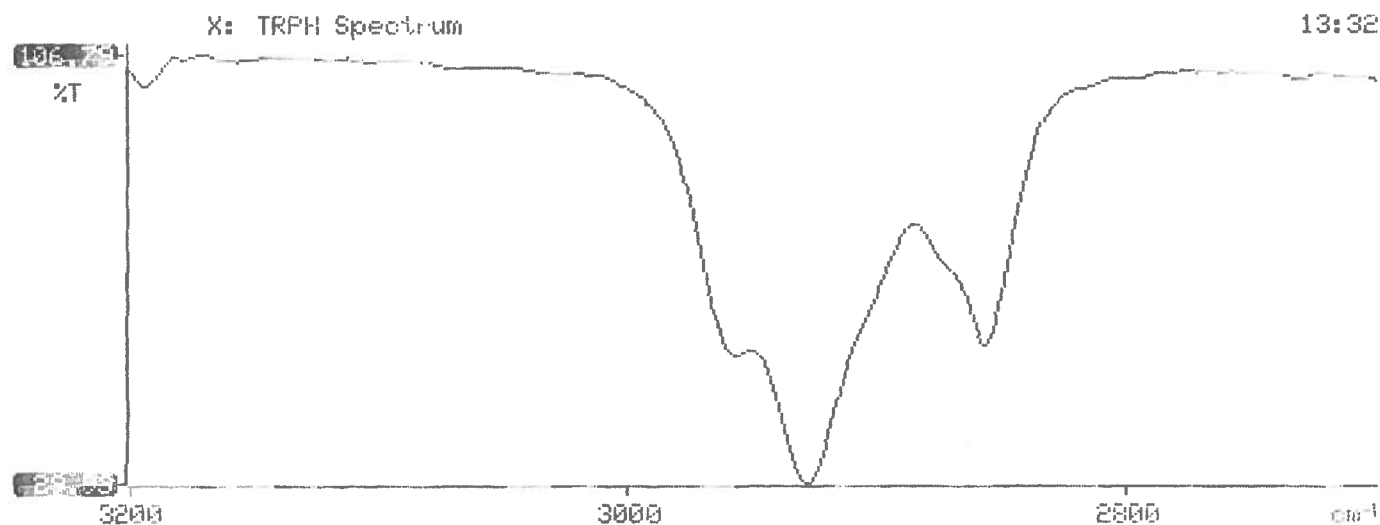
Detection limit in mg/Kg
3.333

Reagent blank
0.000

Dilution factor
100.000

TRPH mg/Kg

22190.008 = 2.2 %



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

Client Sample ID: Spill Area N
Client Project ID: KERN 43-33
Date Collected: 2/19/2003
Date Received: 2/22/2003

Lab Work Order 03-1066
Lab Sample ID: 03-1066-01
Sample Matrix: Soil

Method: DEPT OF AG.

SPECIFIC CONDUCTANCE @ 25°C

Date Prepared: 2/26/2003

Dilution Factor: 1

Date Analyzed: 2/28/2003

Lab Fraction ID: 03-1066-01B

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		603	1.00	µmhos/cm

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

Method: SW9045C

PH

Date Prepared: 2/25/2003


Dilution Factor: 1

Date Analyzed: 2/25/2003

Lab Fraction ID: 03-1066-01A

Analytes	CAS Number	Result	LQL	Units
pH		6.50	1.00	pH Units

Comments:



Analyst



Approved

Qualifiers: B - Analyte detected in the associated Method Blank
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

Evergreen Analytical, Inc.

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

Client Sample ID: Spill Area N
Client Project ID: KERN 43-33
Date Collected: 2/19/2003
Date Received: 2/22/2003

Lab Work Order: 03-1066
Lab Sample ID: 03-1066-01
Sample Matrix: Soil

Method: SW6010

6010 DISSOLVED METALS, WATER

Date Prepared: 2/27/2003

Dilution Factor: 1

Date Analyzed: 3/4/2003

Method Blank: MB-1391

Lab Fraction ID: 03-1066-01B

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	70	1.9	mg/L
Magnesium	7439-95-4	18	0.75	mg/L
Sodium	7440-23-5	27	2.0	mg/L

Method: USDA

SODIUM ADSORPTION RATIO, SOIL

Date Prepared: 2/27/2003

Dilution Factor: 1

Date Analyzed: 3/4/2003

Lab Fraction ID: 03-1066-01B

Analytes	CAS Number	Result	LQL	Units
Sodium-Adsorption-Ratio		0.74	0.10	ratio



Analyst



Approved

Qualifiers: B - Analyte detected in the associated Method Blank
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

Evergreen Analytical, Inc.

Date: 07-Mar-03

CLIENT: Colorado Oil & Gas Conservation Comm.

Work Order: 03-1066

Project: KERN 43-33

ANALYTICAL QC SUMMARY REPORT

BatchID: 1391

Sample ID: MB-1391	SampType: MBLK	TestCode: 200.7_T	Run ID: ICP_030303A	Prep Date: 2/27/2003	Units: mg/L						
	Batch ID: 1391	TestNo: E200.7	FileID:	Analysis Date: 3/3/2003	SeqNo: 56905						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	0.04057	0.39									
Magnesium	0.01058	0.15									
Sodium	0.1445	0.40									

Sample ID: LCS-1391	SampType: LCS	TestCode: 200.7_T	Run ID: ICP_030303A	Prep Date: 2/27/2003	Units: mg/L						
	Batch ID: 1391	TestNo: E200.7	FileID:	Analysis Date: 3/3/2003	SeqNo: 56906						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	8.856	0.39	10	0.04057	88.6	75	125	0	0		
Magnesium	9.176	0.15	10	0.01058	91.8	75	125	0	0		
Sodium	8.628	0.40	10	0.1445	86.3	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: 3/7/2003

Page 1 of 1

Page 1 of 1



Report Results by: _____ (Date)*

Standard 2 working weeks 

3 day UST Analyses per Fee Schedule ☐Report per 1999 OIS Guidelines ☐ Yes ☒ No

* Rush: ☐ 24 hrs ☐ 1 - 2 work days

☐ 3 - 5 work days ☐ 6 - 9 work days

*Rush analysis subject to additional fee

ADDRESS 1120 Lincoln Ste 801

CITY Denver STATE Co ZIP 80203

PHONE# 303-894-2100 FAX# 303-894-2109

REPORT TO (Mr/Ms) Randell Ferguson

INVOICE TO *SAA*

PROJECT I.D. KERN 43-33

P.O. # _____ EAL.QUOTE # _____

Sampler Name:

(print) Randall Ferguson

(signature) Kandall Fox

Please **PRINT**

all information:

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

MATRIX

ANALYSIS REQUESTED

For Laboratory
use only

W.O.#

B.O.F.# _____

C/S (O) _____

C/S (1) 1

Cooler Temp. °C 17.0

Seals Present Y / N / NA

Seals Intact Y / N

Samples Pres. Y/N/NA

Headspace Y / N / NA

By J

[illegible]

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Ken M. Foy</i>	2/22/03 10:30 AM	<i>Charlotte L. Lin</i>	2/22/03 10:30 AM				

Evergreen Analytical Laboratory



4036 Youngfield Street
Wheat Ridge, CO 80033-3862

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

INVOICE 0303241

INV DATE: **MAR 11 2003**

Client Project ID: KERN 43-33

Work Order: 03-1066

QuoteID:

Date Samples Received: 2/22/03

PO Number:

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

WANDA HAUG - operator
NOA # 01121185
Weld County

Attn:
Phone: (303) 894-2100

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	1	\$63.00	0%	\$63.00	\$63.00

Subtotal: \$219.00

Discount: 0.00%

Surcharge: 0.00%

Misc Charges: \$0.00

Payment Received: \$0.00

INVOICE Total: \$219.00

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]
SIGNATURE

4/1/03
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

1 of 1