

ANALYTICAL TABLE

TABLE 1
Warren 29-9L & 29-16L
Soil Laboratory Analytical Data
Kerr-McGee Oil and Gas Onshore, LP

Sample ID	Date Sampled	Depth (feet bgs)	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Total Xylenes mg/kg	TPH - GRO mg/kg	TPH - ORO+DRO mg/kg
COGCC Standards for soil (mg/kg) ⁽¹⁾			0.17	85	100	175	500	
B01 @ 19'	15-Jul-14	19	0.948	13.4	5.19	49.5	2465	662.2
E01 @ 10'	15-Jul-14	10	< 0.01	< 0.01	< 0.01	< 0.01	< 50	<50
N01 @ 10'	15-Jul-14	10	< 0.01	< 0.01	< 0.01	< 0.01	< 50	<50
S01 @ 10'	15-Jul-14	10	< 0.01	< 0.01	< 0.01	< 0.01	< 50	<50
W01 @ 10	15-Jul-14	10	< 0.01	< 0.01	< 0.01	< 0.01	< 50	<50

Notes:

1. Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective February 1, 2014.

COGCC = Colorado Oil and Gas Conservation Commission

TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram

bgs = Below ground surface

(<) = Analytical result is less than the indicated laboratory reporting limit

 = Analytical result is in exceedance of COGCC Table 910-1 soil standards

LABORATORY ANALYTICAL REPORTS

Test Report



July 16, 2014

Client: Tasman Geosciences / Anadarko

Project: Warren 29-9L & 29-16L

Lab ID: 1780

Date Samples Received: 7/15/2014

Number of Samples: 5

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Dieken".

Christopher Dieken
Quality Assurance Manager

A handwritten signature in black ink, appearing to read "Todd Rhea".

Todd Rhea
Laboratory Manager

eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538

Chain of Custody

eANALYTICS
LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538

Phone: (970) 667-6975

Fax: (970) 669-0941

www.eAnalyticsLab.com

CLIENT INFORMATION

(*New Clients please fill out completely)

Company: Tasman Geosciences / Anadarko
Project: Warren 29-9L & 29H6L
Project Manager: Paul Schneider / Phil Hamlin
Sampler: Christine Wasko
Phone/Email: 720-409-8791 / cwasko@tasman-geo.com
Address: 6899 Pecos Street, Unit C
Denver, CO 80221

ANALYSIS INFORMATION

(Select analysis by checking box on corresponding sample line)

Other Analysis

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix (S) Soil (W) Water (V) Vapor (O) Other	BTEX (EPA 8260)	BTEX/GRO (EPA 8260)	DRO/GRO (EPA 8015)	TPH-GRO/DRO/GRO (EPA 8260/8015)	SAR (US Dept of Ag Method 20B)	EC (US Dept of Ag Method 3)	pH (EPA 9045D)	Other Analysis
1	N01C10,	7/15/14 930 AM	1	S		X	X					
2	E01C10,	935 AM										
3	N01C10,	940 AM										
4	E01C10,	K2R										
5	B01C19,	1330 PM										
		AM / PM										
		AM / PM										
		AM / PM										
		AM / PM										
		AM / PM										
		AM / PM										
		AM / PM										
		AM / PM										
		AM / PM										
		AM / PM										

Comments:

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

☐ Normal (5-10 Days)
☐ 3 Day (1.25x)
☐ 1 Day (2x)
☐ Same Day (3x)
☐ Next Bus. Morning (APC Pricing)

If Rush analysis requires an extra charge.
possible please inform eANALYTICS in advance
for rush analysis.

For eANALYTICS Use

Samples Received Intact

Received Within Temperature Range (2-6°C)

Sample Preservative

None

☒ Yes No
☒ Yes No
Acid
Other

Record of Custody

Relinquished by:

Company:

Received by:

Company:

Relinquished by:

Company:

Received by:

Company:

Date

Date

Time

Date

Time

Date

Time

eANALYTICS

WO # 88584726

1780

eANALYTICS: Environmental testing made Easy

Page of

eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538

The results contained within this report relate only to the items analyzed

eANALYTICS

LABORATORY

Client: Tasman Geosciences / Anadarko Lab ID: 1780

Project: Warren 29-9L & 29-16L

Analysis: Volatile Organics Method: EPA8260
TPH EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO C6-C10	TPH DRO C10-C28	TPH ORO C28-C36	Date Sampled	Date Analyzed	Lab ID	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
W01 @ 10	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	07/15/14	07/15/14	1780	1
E01 @ 10'	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	07/15/14	07/15/14	1780	2
N01 @ 10'	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	07/15/14	07/15/14	1780	3
S01 @ 10'	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	07/15/14	07/15/14	1780	4
B01 @ 19'	0.948	13.4	5.19	49.5	2465	604	58.2	07/15/14	07/15/14	1780	5

eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538

eANALYTICS
LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 1780

Project: Warren 29-9L & 29-16L

Method: EPA8260

Sample Name	Dibromo- fluoromethane % Recovery	1,2 Dichloro- ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo- fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
W01 @ 10	104	92	87	91	07/15/14	07/15/14	1780 1
E01 @ 10'	100	101	95	87	07/15/14	07/15/14	1780 2
N01 @ 10'	107	105	87	93	07/15/14	07/15/14	1780 3
S01 @ 10'	104	101	97	89	07/15/14	07/15/14	1780 4
B01 @ 19'	108	91	101	109	07/15/14	07/15/14	1780 5

eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538

eANALYTICS

LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 1780

Project: Warren 29-9L & 29-16L

Analysis: Volatile Organics
TPHMethod: EPA8260
EPA8260/8015

Sample Name								Date Analyzed	Lab ID	
	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO C6-C10	TPH DRO C10-C28	TPH ORO C28-C36			
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
Laboratory Control Sample	96	101	93	96	89	101	100	07/15/14	LCS	1780 1
(70-130%)										
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	07/15/14	MB	1780 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			

eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538