

## **ANALYTICAL SUMMARY TABLES**

**TABLE 1**  
**BERRY # 1, BERRY 8-8**  
**SOIL SAMPLE RESULTS SUMMARY TABLE**  
**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)	TVPH - GRO (mg/kg)	TEPH - DRO + ORO (mg/kg)
<b>COGCC standards for soil (mg/kg) <sup>(1)</sup></b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>500</b>	
N01 @4	5/22/2014	4	<0.01	<0.01	<0.01	<0.01	<50	<50
E01 @ 4	5/22/2014	4	<0.01	<0.01	<0.01	<0.01	<50	<50
S01 @ 4	5/22/2014	4	<0.01	<0.01	<0.01	<0.01	<50	<50
W01 @ 4	5/22/2014	4	<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

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

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 in exceedance of COGCC Table 910-1 soil standards.

**TABLE 2**  
**BERRY # 1, BERRY 8-8**  
**GROUNDWATER SAMPLE RESULTS SUMMARY TABLE**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
<b>CGWQS (ug/L) <sup>(1)</sup></b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>
GW01	5/22/2014	17.6	83.8	13.7	157
GW02	5/23/2014	<1.0	<1.0	<1.0	<1.0

**Notes:**

1. CGWQS = Colorado Groundwater Quality Standards

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

ug/L = Micrograms per liter

= Analytical result is in exceedance of CGWQS groundwater standards.

# **LABORATORY ANALYTICAL REPORT**

# Test Report



May 22, 2014

Client: Tasman Geosciences / Anadarko

Project: Berry #1

Lab ID: 1436

Date Samples Received: 5/22/2014

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

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**e**ANALYTICS  
LABORATORY

Client: Tasman Geosciences / Anadarko Lab ID: 1436

Project: Berry #1

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				
S01 @ 4ft	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	05/22/14	05/22/14	1436	1

**e**ANALYTICS  
LABORATORY

Client: Tasman Geosciences / Anadarko Lab ID: 1436

Project: Berry #1

Analysis: Volatile Organics Method: EPA8260

Sample Name	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Date Sampled	Date Analyzed	Lab ID	
	ug/L	ug/L	ug/L	ug/L				
GW01	17.6	83.8	13.7	157	05/22/14	05/22/14	1436	5

**e**ANALYTICS  
LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 1436

Project: Berry #1

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
S01 @ 4ft	100	101	94	107	05/22/14	05/22/14	1436 1

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**e**ANALYTICS  
LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 1436

Project: Berry #1

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
GW01	99	98	102	89	05/22/14	05/22/14	1436 5

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## LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 1436

Project: Berry #1

Analysis: Volatile Organics  
TPHMethod: EPA8260  
EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO C6-C10	TPH DRO C10-C28	TPH ORO C28-C36	Date Analyzed	Lab ID		
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec				
Laboratory Control Sample	99	103	104	102	100	102	102	05/22/14	LCS	1436	1
(70-130%)											
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	05/22/14	MB	1436	1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				

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Client: Tasman Geosciences / Anadarko

Lab ID: 1436

Project: Berry #1

Analysis: Volatile Organics

Method: EPA8260

Sample Name	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Date Analyzed	Lab ID	
	% Rec	% Rec	% Rec	% Rec			
Laboratory Control Sample	91	99	93	89	05/22/14	LCS	1436 1
(70-130%)							
Method Blank	< 1.0	< 1.0	< 1.0	< 1.0	05/22/14	MB	1436 1
	ug/L	ug/L	ug/L	ug/L			

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# Test Report



May 23, 2014

Client: Tasman Geosciences / Anadarko

Project: Berry #1

Lab ID: 1436

Date Samples Received: 5/22/2014

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

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Todd Rhea  
Laboratory Manager

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**e**ANALYTICS  
LABORATORY

Client: Tasman Geosciences / Anadarko Lab ID: 1436

Project: Berry #1

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 @ 4 ft	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	05/22/14	05/23/14	1436	2
N01 @ 4 ft	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	05/22/14	05/23/14	1436	3
E01 @ 4 ft	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	05/22/14	05/23/14	1436	4

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Client: Tasman Geosciences / Anadarko

Lab ID: 1436

Project: Berry #1

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 @ 4 ft	92	93	104	103	05/22/14	05/23/14	1436 2
N01 @ 4 ft	88	100	107	110	05/22/14	05/23/14	1436 3
E01 @ 4 ft	107	104	94	87	05/22/14	05/23/14	1436 4

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## LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 1436

Project: Berry #1

Analysis: Volatile Organics  
TPHMethod: EPA8260  
EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO C6-C10	TPH DRO C10-C28	TPH ORO C28-C36	Date Analyzed	Lab ID		
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec				
Laboratory Control Sample	94	97	102	92	101	94	92	05/23/14	LCS	1436	1
(70-130%)											
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	< 50	05/23/14	MB	1436	1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				

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# Test Report



May 23, 2014

Client: Tasman Geosciences / Anadarko

Project: Berry #1

Lab ID: 1443

Date Samples Received: 5/23/2014

Number of Samples: 1

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

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## Chain of Custody

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**e**ANALYTICS  
LABORATORY

Client: Tasman Geosciences / Anadarko Lab ID: 1443

Project: Berry #1

Analysis: Volatile Organics Method: EPA8260

Sample Name	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Date Sampled	Date Analyzed	Lab ID	
	ug/L	ug/L	ug/L	ug/L				
GW02	< 1.0	< 1.0	< 1.0	< 1.0	05/23/14	05/23/14	1443	1

**e**ANALYTICS  
LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 1443

Project: Berry #1

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
GW02	102	97	102	97	05/23/14	05/23/14	1443 1

**e**ANALYTICS  
LABORATORY

Client: Tasman Geosciences / Anadarko

Lab ID: 1443

Project: Berry #1

Analysis: Volatile Organics

Method: EPA8260

Sample Name	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Date Analyzed	Lab ID		
	% Rec	% Rec	% Rec	% Rec				
Laboratory Control	103	97	104	95	05/23/14	LCS	1443	1
(70-130%)								
Method Blank	< 1.0	< 1.0	< 1.0	< 1.0	05/23/14	MB	1443	1
	ug/L	ug/L	ug/L	ug/L				

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