Summit Scientific

741 Corporate Circle – Suite I ◆ Golden, Colorado 80401 303.277.9310 - laboratory ◆ 303.277.9531 - fax

January 24, 2016

Ryan Bruner Extraction Oil & Gas 570 17th St. Suite 550 Denver, CO 80202 RE: FCR MD 1-9

Enclosed are the results of analyses for samples received by Summit Scientific on 01/22/16 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Paul Shrewsbury

President



Denver CO, 80202

Project: FCR MD 1-9

Project Number: [none] Project Manager: Ryan Bruner **Reported:** 01/24/16 17:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W03@6	1601185-01	Soil	01/22/16 10:00	01/22/16 12:00
N01@6	1601185-02	Soil	01/22/16 11:00	01/22/16 12:00

MASINI



Denver CO, 80202

Project: FCR MD 1-9

Project Number: [none] Project Manager: Ryan Bruner **Reported:** 01/24/16 17:20

Summit Scientific

741 Corporate Circle, Suite J ◆ Golden, Colorado 80401

5,

1601185

							30	3-27	7-93	10 • 3	303-374-593	33										ſ	1
Clier	11: ExTLACTION /	TASM	47						Proje	ect M	anager:	R	4 J	S	res	~ &	_	_			Page	of	<u> </u>
Add									E-M	ail:													
City	State/Zip:																						
Phor		Fax:							Proje	ect N	ame:	£c	~	20	(-	٩							
Sam	oler Name: Ryan S	Srunos	_						Proje	ect N	umber:												
					P	reser	vativ	e			Matrix			1	Analy	ysis I	Requ	ıeste	d		Specia	al Instru	ctions
ID	Sample Description	Date Sampled	Time Sampled	of containers	HCI	HN03	None	Other (Specify)	Groundwater	Soil	Air-Canister#	Other (Specify)	TPH DKO	GRIEF									
1	mo306	1-22	10:00	1	_		-	Ť		Ã		Ť	Ś	٦				Т					
2	40104	(11:00	1	\vdash	П	\neg	\neg	_	ψ	-	T	ع					Г					
3	55.5						\neg			1		T	_	-									
4				П		П	ヿ				-												
5				Г			\neg																
6				П		П																	
7						П	\neg	П															
8						П																	
9						П	\neg																
10				Г		П	\neg	\neg															
	nquished by: Date/	Γime:	Received l	by:				_	Date	/Tin	ne:	Turr	Aro	und	Time		(Che	eck)				Notes:	
		15:05										Sam	e Da	y /	<u>X</u> _		72 h	nours	, _	_			
				_					-	em.		24 h	ours	Ĺ	_		Star	ndard	1 _	_			
Reli	nquished by: Date/	l'ime:	Received l	by:					Date	/Tim	ne:	48 h	ours		_								
ı			1									Sam	ple I	nteg	rity:			1	1 10	1			
Reli	nquished by: Date/	Time:	Received b	bv:_					Date	/Tin	ne:	Tem	pera	ture.	Upor	Rec	eipt	: 1	1.4				
	nquisired by.		Kh	/	7							Inta		(Yes		No							
			IM	1/	N	\sim	ر	1/2	211	6	12:00			$\stackrel{\smile}{-}$									
				1		MANANA																	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MM



Denver CO, 80202

Project: FCR MD 1-9

Project Number: [none]
Project Manager: Ryan Bruner

Reported: 01/24/16 17:20

W03@6 1601185-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

				Date Sa	mpled: 01	1/22/16 10:	:00		
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1601222	01/22/16	01/22/16	8015M	

Date Sampled: 01/22/16 10:00

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.6 %	30-	150	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

				Date Sa	mpled: 0	1/22/16 10:	:00		
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1601223	01/22/16	01/22/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 01/22/16 10:00

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-	173	"	"	"	"	-
Surrogate: Toluene-d8		99.6 %	20-	170	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-	167	"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MM



Denver CO, 80202

Project: FCR MD 1-9

Project Number: [none] Project Manager: Ryan Bruner **Reported:** 01/24/16 17:20

N01@6 1601185-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

				Date Sa	mpled: 01	1/22/16 11:	00		
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1601222	01/22/16	01/22/16	8015M	<u>_</u>

Date Sampled: 01/22/16 11:00

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.5 %	30-	150	"	"	"	"	

Reporting

Limit

0.0020

0.0050

0.0050

0.0050

0.50

Result

0.025

0.21

0.076

0.89

60

Volatile Organic Compounds by EPA Method 8260B

	Date Sa	impled: 01	1/22/16 11:	:00		
Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
mg/kg	1	1601223	01/22/16	01/22/16	EPA 8260B	
"	"	"	"	"	"	

Date Sampled: 01/22/16 11:00

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	23-	173	"	"	"	"	-
Surrogate: Toluene-d8		112 %	20-	170	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	21-	167	"	"	"	"	

Summit Scientific

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes (total)

Gasoline Range Hydrocarbons

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MMM



Denver CO, 80202

Project: FCR MD 1-9

Project Number: [none]

Project Manager: Ryan Bruner

Reported: 01/24/16 17:20

Extractable Petroleum Hydrocarbons by 8015 - Quality Control Summit Scientific

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1601222 - EPA 3550A										
Blank (1601222-BLK1)				Prepared	& Analyz	ed: 01/22/	16			
C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	11.9		"	12.5		95.1	30-150			
LCS (1601222-BS1)				Prepared	& Analyz	ed: 01/22/	16			
C10-C28 (DRO)	542	50	mg/kg	499		109	73-134			
Surrogate: o-Terphenyl	11.9		"	12.5		95.1	30-150			
Matrix Spike (1601222-MS1)	Sour	ce: 160118	1-01	Prepared	& Analyz	ed: 01/22/	16			
C10-C28 (DRO)	511	50	mg/kg	464	ND	110	50-148			
Surrogate: o-Terphenyl	11.1		"	11.6		95.5	30-150			
Matrix Spike Dup (1601222-MSD1)	Sour	ce: 160118	1-01	Prepared	& Analyz	ed: 01/22/	16			
C10-C28 (DRO)	551	50	mg/kg	498	ND	111	50-148	7.62	13	
Surrogate: o-Terphenyl	12.3		"	12.5		98.8	30-150			

MMM



Denver CO, 80202

Project: FCR MD 1-9

Project Number: [none] Project Manager: Ryan Bruner **Reported:** 01/24/16 17:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control Summit Scientific

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1601223 - EPA 5030 Soil MS										
Blank (1601223-BLK1)				Prepared 6	& Analyz	ed: 01/22/	16			
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0419		"	0.0400		105	23-173			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400		104	21-167			
LCS (1601223-BS1)				Prepared 6	& Analyz	ed: 01/22/	16			
Benzene	0.150	0.0020	mg/kg	0.150		99.7	58-130			
Toluene	0.146	0.0050	"	0.150		97.6	61-134			
Ethylbenzene	0.156	0.0050	"	0.150		104	74-139			
m,p-Xylene	0.305	0.010	"	0.300		102	73-137			
o-Xylene	0.152	0.0050	"	0.150		102	73-141			
Xylenes (total)	0.458	0.0050	"				30-150			
Gasoline Range Hydrocarbons	8.60	0.50	"				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	23-173			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	21-167			
Matrix Spike (1601223-MS1)	So	urce: 160118	1-01	Prepared 6	& Analyz	ed: 01/22/	16			
Benzene	0.139	0.0020	mg/kg	0.139	ND	100	30-131			
Toluene	0.136	0.0050	"	0.139	ND	98.2	30-134			
Ethylbenzene	0.145	0.0050	"	0.139	ND	104	22-153			
m,p-Xylene	0.282	0.010	"	0.277	ND	102	10-159			
o-Xylene	0.142	0.0050	"	0.139	ND	102	31-151			
Xylenes (total)	0.424	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	7.79	0.50	"		ND		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0391		"	0.0370		106	23-173			
Surrogate: Toluene-d8	0.0372		"	0.0370		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0370		104	21-167			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MIMI



Denver CO, 80202

Project: FCR MD 1-9

Project Number: [none]
Project Manager: Ryan Bruner

Reported: 01/24/16 17:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control Summit Scientific

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1601223 - EPA 5030 Soil MS

Matrix Spike Dup (1601223-MSD1)	Source: 1601181-01			Prepared & Analyzed: 01/22/16						
Benzene	0.144	0.0020	mg/kg	0.147	ND	98.4	30-131	4.17	34	
Toluene	0.141	0.0050	"	0.147	ND	96.2	30-134	3.63	30	
Ethylbenzene	0.146	0.0050	"	0.147	ND	99.3	22-153	0.756	24	
m,p-Xylene	0.285	0.010	"	0.294	ND	97.1	10-159	0.990	68	
o-Xylene	0.144	0.0050	"	0.147	ND	97.8	31-151	1.31	38	
Xylenes (total)	0.429	0.0050	"		ND		30-150	1.10	20	
Gasoline Range Hydrocarbons	7.97	0.50	"		ND		30-150	2.29	20	
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0391		106	23-173			
Surrogate: Toluene-d8	0.0399		"	0.0391		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0391		102	21-167			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MM



Extraction Oil & Gas Project: FCR MD 1-9

570 17th St. Suite 550

Project Number: [none]

Denver CO, 80202

Project Manager: Ryan Bruner

Reported: 01/24/16 17:20

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MMM