

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 07, 2015

Carter Peace
Tasman Geosciences
6899 Pecos Street
Denver, CO 80221
RE: Sooner 28-6-1

Enclosed are the results of analyses for samples received by Summit Scientific on 06/26/15 17:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/07/15 08:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@6'	1506269-01	Soil	06/26/15 00:00	06/26/15 17:10
SS02@5'	1506269-02	Soil	06/26/15 00:00	06/26/15 17:10
SS03@5'	1506269-03	Soil	06/26/15 00:00	06/26/15 17:10
SS04@5'	1506269-04	Soil	06/26/15 00:00	06/26/15 17:10
SS05@5'	1506269-05	Soil	06/26/15 00:00	06/26/15 17:10

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/07/15 08:17

Summit Scientific

1506269

741 Corporate Circle Suite I • Golden, Colorado 80401
303-277-9310 • 303-374-5933 Fax

Client: TASMAN / FOUNDATION (INVOICE)

Page 1 of 1

Address:

Project Manager:

City/State/Zip:

E-Mail:

Phone:

Fax:

Sampler Name:

Project Number:

				Preservative		Matrix		Analyze For:														
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 CBTX	8015 DR0									Special Instructions
SS01 @ 6'	6/26/15					X			X													
SS02 @ 5'						X			X													
SS03 @ 5'						X			X													
SS04 @ 5'						X			X													
SS05 @ 5'						X			X													
Relinquished by:	Date/Time:	Received by:		Date/Time:		Turn Around Time (Check)		Notes:														
						Same Day																
						24 Hours																
						48 Hours		Standard <input checked="" type="checkbox"/>														
Relinquished by:	Date/Time:	Received by:		Date/Time:		Sample Integrity:																
						Temperature Upon Receipt:		58°C														
						Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/07/15 08:17

SS01@6'
1506269-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	510	50	mg/kg	1	1506354	06/29/15	06/29/15	8015M	

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		100 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1506355	06/29/15	06/29/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	15	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1100	50	"	"	"	"	"	"	

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		90.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/07/15 08:17

SS02@5'
1506269-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/26/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	2300	50	mg/kg	1	1506354	06/29/15	06/29/15	8015M	

Date Sampled: **06/26/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		34.3 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/26/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	9.8	1.0	mg/kg	10	1506355	06/29/15	06/29/15	EPA 8260B	
Toluene	50	10	"	1	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	110	100	"	10	"	"	"	"	
Gasoline Range Hydrocarbons	3100	500	"	"	"	"	"	"	

Date Sampled: **06/26/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		79.3 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		140 %	21-167		"	"	"	"	

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6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/07/15 08:17

SS03@5'
1506269-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	750	50	mg/kg	1	1506354	06/29/15	06/29/15	8015M	

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		116 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1506355	06/29/15	06/29/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	370	50	"	"	"	"	"	"	

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

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6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/07/15 08:17

SS04@5'
1506269-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1506354	06/29/15	06/29/15	8015M	

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1506355	06/29/15	07/06/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.3 %	21-167		"	"	"	"	

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Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/07/15 08:17

SS05@5'
1506269-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1506354	06/29/15	06/29/15	8015M	

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1506355	06/29/15	07/06/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 06/26/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

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6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/07/15 08:17

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1506354 - EPA 3550A

Blank (1506354-BLK1)

Prepared & Analyzed: 06/29/15

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	11.5		"	12.2		94.6	30-150			

LCS (1506354-BS1)

Prepared & Analyzed: 06/29/15

C10-C28 (DRO)	578	50	mg/kg	501		115	73-134			
Surrogate: o-Terphenyl	12.1		"	12.2		99.5	30-150			

Matrix Spike (1506354-MS1)

Source: 1506268-01

Prepared & Analyzed: 06/29/15

C10-C28 (DRO)	502	50	mg/kg	485	22.9	98.9	50-148			
Surrogate: o-Terphenyl	11.4		"	11.8		96.8	30-150			

Matrix Spike Dup (1506354-MSD1)

Source: 1506268-01

Prepared & Analyzed: 06/29/15

C10-C28 (DRO)	519	50	mg/kg	493	22.9	101	50-148	3.29	13	
Surrogate: o-Terphenyl	11.7		"	12.0		97.1	30-150			

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Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/07/15 08:17

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

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

Batch 1506355 - EPA 5030 Soil MS

Blank (1506355-BLK1)

Prepared & Analyzed: 06/29/15

Benzene	ND	0.10	mg/kg							
Toluene	ND	10	"							
Ethylbenzene	ND	10	"							
Xylenes (total)	ND	10	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0433		"	0.0396	109	23-173				
Surrogate: Toluene-d8	0.0394		"	0.0400	98.4	20-170				
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400	96.8	21-167				

LCS (1506355-BS1)

Prepared & Analyzed: 06/29/15

Benzene	0.109	0.10	mg/kg	0.100	109	58-130				
Toluene	0.109	10	"	0.100	109	61-134				
Ethylbenzene	0.108	10	"	0.0992	108	74-139				
m,p-Xylene	0.213	10	"	0.200	107	73-137				
o-Xylene	0.113	10	"	0.0984	115	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0445		"	0.0396	112	23-173				
Surrogate: Toluene-d8	0.0401		"	0.0400	100	20-170				
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400	95.7	21-167				

Matrix Spike (1506355-MS1)

Source: 1506268-01

Prepared & Analyzed: 06/29/15

Benzene	0.103	0.10	mg/kg	0.0958	ND	108	30-131			
Toluene	0.0993	10	"	0.0958	ND	104	30-134			
Ethylbenzene	0.0987	10	"	0.0950	ND	104	22-153			
m,p-Xylene	0.196	10	"	0.191	ND	103	10-159			
o-Xylene	0.106	10	"	0.0943	ND	113	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0379	114	23-173				
Surrogate: Toluene-d8	0.0385		"	0.0383	100	20-170				
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0383	98.2	21-167				

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/07/15 08:17

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

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

Batch 1506355 - EPA 5030 Soil MS

Matrix Spike Dup (1506355-MSD1)		Source: 1506268-01			Prepared & Analyzed: 06/29/15					
Benzene	0.100	0.10	mg/kg	0.0994	ND	101	30-131	3.34	34	
Toluene	0.0931	10	"	0.0994	ND	93.6	30-134	6.49	30	
Ethylbenzene	0.0937	10	"	0.0986	ND	95.0	22-153	5.18	24	
m,p-Xylene	0.185	10	"	0.198	ND	93.3	10-159	5.96	68	
o-Xylene	0.102	10	"	0.0978	ND	104	31-151	4.24	38	
Surrogate: 1,2-Dichloroethane-d4	0.0458		"	0.0394		116	23-173			
Surrogate: Toluene-d8	0.0405		"	0.0398		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0398		102	21-167			

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6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/07/15 08:17

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

A handwritten signature in black ink, appearing to be 'MSM'.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 17, 2015

Carter Peace
Tasman Geosciences
6899 Pecos Street
Denver, CO 80221
RE: Sooner 28-6-1

Enclosed are the results of analyses for samples received by Summit Scientific on 07/10/15 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/17/15 13:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS06@8'	1507124-01	Soil	07/10/15 00:00	07/10/15 17:45
SS07@8'	1507124-02	Soil	07/10/15 00:00	07/10/15 17:45
SS08@9'	1507124-03	Soil	07/10/15 00:00	07/10/15 17:45

Summit Scientific

A handwritten signature in black ink, appearing to be 'MSM'.

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/17/15 13:32

SS06@8'
1507124-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/10/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1507147	07/14/15	07/16/15	8015M	

Date Sampled: 07/10/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		108 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/10/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1507163	07/14/15	07/15/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 07/10/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %	21-167		"	"	"	"	

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6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/17/15 13:32

SS07@8'
1507124-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/10/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1507147	07/14/15	07/16/15	8015M	

Date Sampled: 07/10/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		114 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/10/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1507163	07/14/15	07/16/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 07/10/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	21-167		"	"	"	"	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/17/15 13:32

SS08@9'
1507124-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/10/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1507147	07/14/15	07/16/15	8015M	

Date Sampled: 07/10/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/10/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1507163	07/14/15	07/16/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 07/10/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/17/15 13:32

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1507147 - EPA 3550A

Blank (1507147-BLK1)

Prepared: 07/14/15 Analyzed: 07/15/15

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 13.6 " 12.2 112 30-150

LCS (1507147-BS1)

Prepared: 07/14/15 Analyzed: 07/15/15

C10-C28 (DRO) 468 50 mg/kg 501 93.5 73-134

Surrogate: o-Terphenyl 13.0 " 12.2 107 30-150

Matrix Spike (1507147-MS1)

Source: 1507143-01

Prepared: 07/14/15 Analyzed: 07/15/15

C10-C28 (DRO) 567 50 mg/kg 485 106 95.2 50-148

Surrogate: o-Terphenyl 12.8 " 11.8 108 30-150

Matrix Spike Dup (1507147-MSD1)

Source: 1507143-01

Prepared: 07/14/15 Analyzed: 07/15/15

C10-C28 (DRO) 665 50 mg/kg 481 106 116 50-148 15.9 13

Surrogate: o-Terphenyl 12.2 " 11.7 104 30-150

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Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/17/15 13:32

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

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

Batch 1507163 - EPA 5030 Soil MS

Blank (1507163-BLK1)

Prepared: 07/14/15 Analyzed: 07/15/15

Benzene	ND	0.10	mg/kg
Toluene	ND	10	"
Ethylbenzene	ND	10	"
Xylenes (total)	ND	10	"
Gasoline Range Hydrocarbons	ND	50	"

Surrogate: 1,2-Dichloroethane-d4	0.0382	"	0.0396	96.4	23-173
Surrogate: Toluene-d8	0.0382	"	0.0400	95.4	20-170
Surrogate: 4-Bromofluorobenzene	0.0391	"	0.0400	97.7	21-167

LCS (1507163-BS1)

Prepared: 07/14/15 Analyzed: 07/15/15

Benzene	0.106	0.10	mg/kg	0.100	106	58-130
Toluene	0.115	10	"	0.100	115	61-134
Ethylbenzene	0.138	10	"	0.0992	139	74-139
m,p-Xylene	0.284	10	"	0.200	142	73-150
o-Xylene	0.139	10	"	0.0984	142	73-150

Surrogate: 1,2-Dichloroethane-d4	0.0391	"	0.0396	98.6	23-173
Surrogate: Toluene-d8	0.0403	"	0.0400	101	20-170
Surrogate: 4-Bromofluorobenzene	0.0390	"	0.0400	97.6	21-167

Matrix Spike (1507163-MS1)

Source: 1507124-01

Prepared: 07/14/15 Analyzed: 07/15/15

Benzene	0.104	0.10	mg/kg	0.0980	ND	106	30-131
Toluene	0.114	10	"	0.0980	ND	117	30-134
Ethylbenzene	0.138	10	"	0.0973	ND	142	22-153
m,p-Xylene	0.279	10	"	0.196	ND	142	10-159
o-Xylene	0.142	10	"	0.0965	ND	147	31-151

Surrogate: 1,2-Dichloroethane-d4	0.0404	"	0.0388	104	23-173
Surrogate: Toluene-d8	0.0385	"	0.0392	98.1	20-170
Surrogate: 4-Bromofluorobenzene	0.0384	"	0.0392	97.9	21-167

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Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/17/15 13:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1507163 - EPA 5030 Soil MS

Matrix Spike Dup (1507163-MSD1)		Source: 1507124-01			Prepared: 07/14/15		Analyzed: 07/15/15			
Benzene	0.0962	0.10	mg/kg	0.0928	ND	104	30-131	8.07	34	
Toluene	0.107	10	"	0.0928	ND	115	30-134	6.90	30	
Ethylbenzene	0.128	10	"	0.0920	ND	139	22-153	7.27	24	
m,p-Xylene	0.259	10	"	0.185	ND	140	10-159	7.30	68	
o-Xylene	0.131	10	"	0.0913	ND	143	31-151	7.82	38	
Surrogate: 1,2-Dichloroethane-d4	0.0384		"	0.0367		105	23-173			
Surrogate: Toluene-d8	0.0366		"	0.0371		98.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0367		"	0.0371		98.8	21-167			

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Tasman Geosciences
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Denver CO, 80221

Project: Sooner 28-6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
07/17/15 13:32

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

A handwritten signature in black ink, appearing to be 'MSM'.

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