

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 01, 2015

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

Enclosed are the results of analyses for samples received by Summit Scientific on 08/25/15 17:00. 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: Hill 6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
09/01/15 10:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@1	1508187-01	Soil	08/24/15 00:00	08/25/15 17:00
SS02@2	1508187-02	Soil	08/24/15 00:00	08/25/15 17:00
SS03@4	1508187-03	Soil	08/24/15 00:00	08/25/15 17:00

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
09/01/15 10:42

Summit Scientific

1508187

741 Corporate Circle, Suite J&K Golden, Colorado 80401
303-277-9310 303-374-5933

Client: TASMAN / FOUNDATION (INVOICING) Project Manager: C. PEACE Page 1 of 1
Address: _____ E-Mail: _____
City/State/Zip: _____
Phone: _____ Fax: _____ Project Name: HILL 6-1
Sampler Name: CJP Project Number: _____

		Preservative				Matrix		Analysis Requested					Special Instructions						
Sample Description		Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	8260 BTEX	8115 DRO	PH	EC	SAR		
1	SS01 A 1	8/24/15					X			X			X	X	X	X	X		
2	SS02 A 2									X			X	X	X	X	X		
3	SS03 A 4																		
5																			
6																			
7																			
8																			
9																			

Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Turn Around Time (Check)
Same Day _____ 72 hours _____
24 hours _____ Standard X
48 hours _____
Sample Integrity: _____
Temperature Upon Receipt: 0.7°C
Intact: Yes No _____
Notes: on ice

Relinquished by: WJF Date/Time: 08/25/15 1700 Received by: MA Date/Time: 8/25/15 1700
NA 8/25/15 1755 Raina a Ziegler 8/25/15 17:00

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

Reported:
09/01/15 10:42

SS01@1
1508187-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1508206	08/26/15	08/27/15	8015M	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1508216	08/27/15	08/28/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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6899 Pecos Street
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Project: Hill 6-1
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Project Manager: Carter Peace

Reported:
09/01/15 10:42

SS01@1
1508187-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Calcium	1670	10.4 mg/kg dry	1	1508203	08/26/15	08/26/15	EPA 6020/Mod. USDA60 6(2, 3A)
Magnesium	722	5.22	"	"	"	"	"
Sodium	582	5.22	"	"	"	"	"

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.00		units	"	1508225	08/28/15	08/28/15	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.74	0.0100 mmhos/cm		1	1508197	08/26/15	08/26/15	SM 2510B	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.93	0.100 pH Units		"	1508196	08/26/15	08/26/15	EPA 9045	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.3		%	"	1508198	08/26/15	08/27/15	% calculation	

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Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

Reported:
09/01/15 10:42

SS02@2
1508187-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	380	50	mg/kg	1	1508206	08/26/15	08/27/15	8015M	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1508216	08/27/15	08/28/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	52	50	"	"	"	"	"	"	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		132 %	21-167		"	"	"	"	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Hill 6-1
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Project Manager: Carter Peace

Reported:
09/01/15 10:42

SS02@2
1508187-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Calcium	3390	12.7 mg/kg dry	1	1508203	08/26/15	08/26/15	EPA 6020/Mod. USDA60 6(2, 3A)
Magnesium	553	6.33	"	"	"	"	"
Sodium	1580	6.33	"	"	"	"	"

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.63		units	"	1508225	08/28/15	08/28/15	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.19	0.0100 mmhos/cm		1	1508197	08/26/15	08/26/15	SM 2510B	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54	0.100 pH Units		"	1508196	08/26/15	08/26/15	EPA 9045	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.0		%	"	1508198	08/26/15	08/27/15	% calculation	

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Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

Reported:
09/01/15 10:42

SS03@4
1508187-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1508206	08/26/15	08/27/15	8015M	

Date Sampled: 08/24/15 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: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1508216	08/27/15	08/28/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Carter Peace

Reported:
09/01/15 10:42

SS03@4
1508187-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Calcium	3330	11.9 mg/kg dry	1	1508203	08/26/15	08/26/15	EPA 6020/Mod. USDA60 6(2, 3A)
Magnesium	352	5.94	"	"	"	"	"
Sodium	810	5.94	"	"	"	"	"

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.57		units	"	1508225	08/28/15	08/28/15	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.75	0.0100 mmhos/cm		1	1508197	08/26/15	08/26/15	SM 2510B	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.89	0.100	pH Units	"	1508196	08/26/15	08/26/15	EPA 9045	

Date Sampled: 08/24/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	"	1508198	08/26/15	08/27/15	% calculation	

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6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

Reported:
09/01/15 10:42

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 1508206 - EPA 3550A

Blank (1508206-BLK1)

Prepared & Analyzed: 08/26/15

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	14.0		"	12.2		115	30-150			

LCS (1508206-BS1)

Prepared & Analyzed: 08/26/15

C10-C28 (DRO)	478	50	mg/kg	499		95.8	73-134			
Surrogate: o-Terphenyl	13.1		"	12.2		107	30-150			

Matrix Spike (1508206-MS1)

Source: 1508185-01

Prepared & Analyzed: 08/26/15

C10-C28 (DRO)	495	50	mg/kg	482	ND	103	50-148			
Surrogate: o-Terphenyl	12.7		"	11.8		108	30-150			

Matrix Spike Dup (1508206-MSD1)

Source: 1508185-01

Prepared & Analyzed: 08/26/15

C10-C28 (DRO)	493	50	mg/kg	491	ND	100	50-148	0.405	13	
Surrogate: o-Terphenyl	13.1		"	12.0		109	30-150			

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Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

Reported:
09/01/15 10:42

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 1508216 - EPA 5030 Soil MS

Blank (1508216-BLK1)

Prepared: 08/27/15 Analyzed: 08/28/15

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	0.0420		"	0.0396	106	23-173				
Surrogate: Toluene-d8	0.0388		"	0.0400	96.9	20-170				
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400	103	21-167				

LCS (1508216-BS1)

Prepared: 08/27/15 Analyzed: 08/28/15

Benzene	0.105	0.10	mg/kg	0.100	105	58-130				
Toluene	0.0976	10	"	0.100	97.6	61-134				
Ethylbenzene	0.104	10	"	0.0992	104	74-139				
m,p-Xylene	0.207	10	"	0.200	103	73-137				
o-Xylene	0.110	10	"	0.0984	112	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0400		"	0.0396	101	23-173				
Surrogate: Toluene-d8	0.0400		"	0.0400	100	20-170				
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400	97.7	21-167				

Matrix Spike (1508216-MS1)

Source: 1508185-01

Prepared: 08/27/15 Analyzed: 08/28/15

Benzene	0.105	0.10	mg/kg	0.0960	ND	109	30-131			
Toluene	0.0947	10	"	0.0960	ND	98.7	30-134			
Ethylbenzene	0.104	10	"	0.0952	ND	109	22-153			
m,p-Xylene	0.208	10	"	0.192	ND	109	10-159			
o-Xylene	0.107	10	"	0.0944	ND	113	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0380	105	23-173				
Surrogate: Toluene-d8	0.0381		"	0.0384	99.2	20-170				
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0384	99.9	21-167				

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6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

Reported:
09/01/15 10:42

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 1508216 - EPA 5030 Soil MS

Matrix Spike Dup (1508216-MSD1)		Source: 1508185-01			Prepared: 08/27/15		Analyzed: 08/28/15			
Benzene	0.105	0.10	mg/kg	0.0965	ND	109	30-131	0.111	34	
Toluene	0.0951	10	"	0.0965	ND	98.5	30-134	0.456	30	
Ethylbenzene	0.105	10	"	0.0958	ND	110	22-153	1.57	24	
m,p-Xylene	0.212	10	"	0.193	ND	110	10-159	2.06	68	
o-Xylene	0.112	10	"	0.0950	ND	118	31-151	4.45	38	
Surrogate: 1,2-Dichloroethane-d4	0.0401		"	0.0382		105	23-173			
Surrogate: Toluene-d8	0.0372		"	0.0386		96.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0386		100	21-167			

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Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

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09/01/15 10:42

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1508203 - General Preparation

Blank (1508203-BLK1)

Prepared & Analyzed: 08/26/15

Calcium	ND	10.0	mg/kg wet
Magnesium	ND	5.00	"
Sodium	ND	5.00	"

LCS (1508203-BS1)

Prepared & Analyzed: 08/26/15

Calcium	548	10.0	mg/kg wet	500	110	82.9-118
Magnesium	510	5.00	"	500	102	77.1-123
Sodium	519	5.00	"	500	104	71-129

Duplicate (1508203-DUP1)

Source: 1508185-01

Prepared & Analyzed: 08/26/15

Calcium	1150	11.1	mg/kg dry	1080	6.68	200
Magnesium	353	5.54	"	367	4.05	200
Sodium	873	5.54	"	949	8.34	200

Matrix Spike (1508203-MS1)

Source: 1508185-01

Prepared & Analyzed: 08/26/15

Calcium	1640	11.1	mg/kg dry	554	1080	101	75-125
Magnesium	893	5.54	"	554	367	94.9	75-125
Sodium	1400	5.54	"	554	949	81.6	75-125

Matrix Spike Dup (1508203-MSD1)

Source: 1508185-01

Prepared & Analyzed: 08/26/15

Calcium	1690	11.1	mg/kg dry	554	1080	111	75-125	3.24	25
Magnesium	919	5.54	"	554	367	99.6	75-125	2.87	25
Sodium	1560	5.54	"	554	949	111	75-125	10.9	25

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Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

Reported:
09/01/15 10:42

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch 1508196 - General Preparation

LCS (1508196-BS1)

Prepared & Analyzed: 08/26/15

pH	7.98	0.100	pH Units	8.00	99.8	95-105
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Duplicate (1508196-DUP1)

Source: 1508185-01

Prepared & Analyzed: 08/26/15

pH	8.93	0.100	pH Units	8.95	0.224	20
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Batch 1508197 - General Preparation

Blank (1508197-BLK1)

Prepared & Analyzed: 08/26/15

Specific Conductance (EC)	ND	0.0100	mmhos/cm
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LCS (1508197-BS1)

Prepared & Analyzed: 08/26/15

Specific Conductance (EC)	500	0.0100	mmhos/cm	500	100	90-110
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Duplicate (1508197-DUP1)

Source: 1508185-01

Prepared & Analyzed: 08/26/15

Specific Conductance (EC)	1.61	0.0100	mmhos/cm	1.73	7.13	20
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Batch 1508198 - General Preparation

Duplicate (1508198-DUP1)

Source: 1508185-01

Prepared: 08/26/15 Analyzed: 08/27/15

% Solids	90.1		%	90.3	0.171	20
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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
09/01/15 10:42

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'.

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.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 07, 2015

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

Enclosed are the results of analyses for samples received by Summit Scientific on 09/30/15 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "M Clements", with a stylized flourish at the end.

Michelle Clements For Paul Shrewsbury
President



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
10/07/15 14:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS04@2'	1509275-01	Soil	09/30/15 00:00	09/30/15 17:00
SS05@1'	1509275-02	Soil	09/30/15 00:00	09/30/15 17:00

Summit Scientific

A handwritten signature in black ink, appearing to read 'M. Clements'.

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.

Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
10/07/15 14:21

Summit Scientific

1509215


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

Client: TASMAN / FOUNDATION (Invoicing)
Address: _____
City/State/Zip: _____
Phone: _____ Fax: _____
Sampler Name: CRP

Page | of |

Project Manager: C. PATE
E-Mail:
Project Name: Hill 6-1
Project Number:

[illegible]

m 9/30/15 1730  www.s2scientific.com
9-30 1730

www.s2scientific.com

Summit Scientific

M Clement

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.



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

Reported:
10/07/15 14:21

SS04@2'
1509275-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	270	50	mg/kg	1	1509288	10/01/15	10/02/15	8015M	

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1510004	10/01/15	10/01/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		126 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	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.



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
10/07/15 14:21

SS05@1'
1509275-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	4300	50	mg/kg	1	1509288	10/01/15	10/02/15	8015M	

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		392 %	30-150		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.12	0.10	mg/kg	1	1510004	10/01/15	10/02/15	EPA 8260B	
Toluene	10	10	"	"	"	"	10/01/15	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	23	10	"	"	"	"	10/02/15	"	
Gasoline Range Hydrocarbons	2300	50	"	"	"	"	10/01/15	"	

Date Sampled: **09/30/15 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.0 %	23-173		"	"	10/02/15	"	
<i>Surrogate: Toluene-d8</i>		117 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		121 %	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.



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
10/07/15 14:21

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 1509288 - EPA 3550A

Blank (1509288-BLK1)

Prepared: 10/01/15 Analyzed: 10/02/15

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.4 " 12.2 101 30-150

LCS (1509288-BS1)

Prepared: 10/01/15 Analyzed: 10/02/15

C10-C28 (DRO) 433 50 mg/kg 499 86.7 73-134

Surrogate: o-Terphenyl 12.4 " 12.2 102 30-150

Matrix Spike (1509288-MS1)

Source: 1509124-04

Prepared: 10/01/15 Analyzed: 10/02/15

C10-C28 (DRO) 441 50 mg/kg 466 21.8 89.9 50-148

Surrogate: o-Terphenyl 11.5 " 11.4 101 30-150

Matrix Spike Dup (1509288-MSD1)

Source: 1509124-04

Prepared: 10/01/15 Analyzed: 10/02/15

C10-C28 (DRO) 467 50 mg/kg 494 21.8 90.2 50-148 5.71 13

Surrogate: o-Terphenyl 11.7 " 12.1 97.0 30-150

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.



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

Reported:
10/07/15 14:21

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 1510004 - EPA 5030 Soil MS

Blank (1510004-BLK1)

Prepared & Analyzed: 10/01/15

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	0.0419		"	0.0396		106	23-173			
Surrogate: Toluene-d8	0.0380		"	0.0400		95.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0370		"	0.0400		92.6	21-167			

LCS (1510004-BS1)

Prepared & Analyzed: 10/01/15

Benzene	0.0791	0.10	mg/kg	0.100		79.1	58-130			
Toluene	0.0823	10	"	0.100		82.3	61-134			
Ethylbenzene	0.107	10	"	0.0992		108	74-139			
m,p-Xylene	0.216	10	"	0.200		108	73-137			
o-Xylene	0.0995	10	"	0.0984		101	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0423		"	0.0396		107	23-173			
Surrogate: Toluene-d8	0.0377		"	0.0400		94.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0400		92.7	21-167			

Matrix Spike (1510004-MS1)

Source: 1510001-01

Prepared & Analyzed: 10/01/15

Benzene	0.0745	0.10	mg/kg	0.0896	ND	83.1	30-131			
Toluene	0.0768	10	"	0.0896	ND	85.7	30-134			
Ethylbenzene	0.100	10	"	0.0889	ND	112	22-153			
m,p-Xylene	0.200	10	"	0.179	ND	112	10-159			
o-Xylene	0.0914	10	"	0.0882	ND	104	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0385		"	0.0355		108	23-173			
Surrogate: Toluene-d8	0.0343		"	0.0358		95.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0327		"	0.0358		91.2	21-167			

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
10/07/15 14:21

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 1510004 - EPA 5030 Soil MS

Matrix Spike Dup (1510004-MSD1)		Source: 1510001-01			Prepared & Analyzed: 10/01/15					
Benzene	0.0798	0.10	mg/kg	0.0907	ND	88.0	30-131	6.94	34	
Toluene	0.0828	10	"	0.0907	ND	91.2	30-134	7.43	30	
Ethylbenzene	0.108	10	"	0.0900	ND	120	22-153	7.56	24	
m,p-Xylene	0.215	10	"	0.181	ND	119	10-159	6.93	68	
o-Xylene	0.0978	10	"	0.0893	ND	109	31-151	6.75	38	
Surrogate: 1,2-Dichloroethane-d4	0.0396		"	0.0359		110	23-173			
Surrogate: Toluene-d8	0.0345		"	0.0363		95.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0341		"	0.0363		93.9	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.



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
10/07/15 14:21

Notes and Definitions

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

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 read 'M. Clements'.

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.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 25, 2015

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

Enclosed are the results of analyses for samples received by Summit Scientific on 10/23/15 17:00. 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: Hill 6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
10/25/15 13:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS06@3	1510163-01	Soil	10/22/15 00:00	10/23/15 17:00

Summit Scientific

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

303-277

Client: TASMAN / FOUNDATION (INVOICE)

Address: _____

City/State/Zip: _____

Phone: _____ Fax: _____

Sampler Name: GP

Project Manager: C. PEARCE
E-Mail:
Project Name: Hill 6-1
Project Number:

Page 1 of 1

[illegible]

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.





Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

Reported:
10/25/15 13:24

SS06@3
1510163-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/22/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1510199	10/23/15	10/23/15	8015M	

Date Sampled: 10/22/15 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: 10/22/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1510198	10/23/15	10/23/15	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 10/22/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		119 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	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.



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

Reported:
10/25/15 13:24

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 1510199 - EPA 3550A

Blank (1510199-BLK1)

Prepared & Analyzed: 10/23/15

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	13.6		"	12.2		111	30-150			

LCS (1510199-BS1)

Prepared & Analyzed: 10/23/15

C10-C28 (DRO)	565	50	mg/kg	499		113	73-134			
Surrogate: o-Terphenyl	14.3		"	12.2		117	30-150			

Matrix Spike (1510199-MS1)

Source: 1510162-02

Prepared & Analyzed: 10/23/15

C10-C28 (DRO)	546	50	mg/kg	499	90.7	91.2	50-148			
Surrogate: o-Terphenyl	13.2		"	12.2		108	30-150			

Matrix Spike Dup (1510199-MSD1)

Source: 1510162-02

Prepared & Analyzed: 10/23/15

C10-C28 (DRO)	546	50	mg/kg	499	90.7	91.3	50-148	0.0676	13	
Surrogate: o-Terphenyl	13.0		"	12.2		107	30-150			

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

Reported:
10/25/15 13:24

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 1510198 - EPA 5030 Soil MS

Blank (1510198-BLK1)

Prepared & Analyzed: 10/23/15

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	0.0428		"	0.0396	108	23-173				
Surrogate: Toluene-d8	0.0404		"	0.0400	101	20-170				
Surrogate: 4-Bromofluorobenzene	0.0424		"	0.0400	106	21-167				

LCS (1510198-BS1)

Prepared & Analyzed: 10/23/15

Benzene	0.108	0.10	mg/kg	0.100	108	58-130				
Toluene	0.0982	10	"	0.100	98.2	61-134				
Ethylbenzene	0.114	10	"	0.0992	114	74-139				
m,p-Xylene	0.222	10	"	0.200	111	73-137				
o-Xylene	0.118	10	"	0.0984	120	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0396	108	23-173				
Surrogate: Toluene-d8	0.0422		"	0.0400	105	20-170				
Surrogate: 4-Bromofluorobenzene	0.0432		"	0.0400	108	21-167				

Matrix Spike (1510198-MS1)

Source: 1510162-02

Prepared & Analyzed: 10/23/15

Benzene	0.112	0.10	mg/kg	0.100	ND	112	30-131			
Toluene	0.104	10	"	0.100	ND	104	30-134			
Ethylbenzene	0.121	10	"	0.0992	ND	122	22-153			
m,p-Xylene	0.260	10	"	0.200	0.0360	112	10-159			
o-Xylene	0.137	10	"	0.0984	0.0190	120	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0471		"	0.0396		119	23-173			
Surrogate: Toluene-d8	0.0422		"	0.0400		106	20-170			
Surrogate: 4-Bromofluorobenzene	0.0433		"	0.0400		108	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.



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1
Project Number: [none]
Project Manager: Carter Peace

Reported:
10/25/15 13:24

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 1510198 - EPA 5030 Soil MS

Matrix Spike Dup (1510198-MSD1)		Source: 1510162-02			Prepared & Analyzed: 10/23/15					
Benzene	0.114	0.10	mg/kg	0.100	ND	114	30-131	1.49	34	
Toluene	0.106	10	"	0.100	ND	106	30-134	1.28	30	
Ethylbenzene	0.123	10	"	0.0992	ND	124	22-153	1.99	24	
m,p-Xylene	0.273	10	"	0.200	0.0360	119	10-159	4.73	68	
o-Xylene	0.142	10	"	0.0984	0.0190	125	31-151	3.95	38	
Surrogate: 1,2-Dichloroethane-d4	0.0470		"	0.0396		119	23-173			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0424		"	0.0400		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.



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Hill 6-1

Project Number: [none]
Project Manager: Carter Peace

Reported:
10/25/15 13:24

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.

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