

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

January 25, 2016

Christine Wasko  
Tasman Geosciences  
6899 Pecos Street  
Denver, CO 80221  
RE: Walton 17-25 Wellhead

Enclosed are the results of analyses for samples received by Summit Scientific on 01/22/16 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: Walton 17-25 Wellhead

Project Number: [none]  
Project Manager: Christine Wasko

**Reported:**  
01/25/16 08:23

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS03@18"	1601191-01	Soil	01/22/16 13:50	01/22/16 17:45
SS04@18"	1601191-02	Soil	01/22/16 13:55	01/22/16 17:45

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Walton 17-25 Wellhead

Project Number: [none]  
Project Manager: Christine Wasko

**Reported:**  
01/25/16 08:23

## Summit Scientific 1601191

741 Corporate Circle Suite I • Golden, Colorado 80401  
303-277-9310 • 303-277-9531 Fax

Client: Tasman / Bayswater

Page 1 of 1

**Address:**

City/State/Zip: \_\_\_\_\_

Phone: 512 696 5394

Fax:

Sampler Name: E. Uot Dillon-Harlow

Project Manager: C Washko

E-Mail: [cwaske@tesman-geo.com](mailto:cwaske@tesman-geo.com)

Project Name: Walton 17-25 Wellhead

Project Number:

				Preservative		Matrix		Analyze For:													
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	GROTEX SLO	TPH-DPO								Special Instructions
SS#3 @ 18"	01/22/16	1350	2			X						X	X								
SS#4 @ 18"	3	1355	2			X						X	X								
Relinquished by: <i>[Signature]</i>	Date/Time: 1/22/16 1630	Received by: <i>[Signature]</i>	Date/Time: 1/22/16 1700	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 Hours 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/>									Notes:  on ice								
Relinquished by: <i>[Signature]</i>	Date/Time: 1/22/16 1750	Received by: <i>[Signature]</i>	Date/Time: 1-22-16 1750	Sample Integrity: Temperature Upon Receipt: 3.7°C Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																	
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:																		

[www.s2scientific.com](http://www.s2scientific.com)

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Project Number: [none]  
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**Reported:**  
01/25/16 08:23

**SS03@18"**  
**1601191-01 (Soil)**

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 01/22/16 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1601228	01/22/16	01/23/16	8015M	

Date Sampled: 01/22/16 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.4 %	30-150		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 01/22/16 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1601229	01/22/16	01/23/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.019	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.14	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	20	0.50	"	"	"	"	"	"	

Date Sampled: 01/22/16 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		79.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		123 %	21-167		"	"	"	"	

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Project: Walton 17-25 Wellhead

Project Number: [none]  
Project Manager: Christine Wasko

**Reported:**  
01/25/16 08:23

**SS04@18"**  
**1601191-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/22/16 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1601228	01/22/16	01/23/16	8015M	

Date Sampled: **01/22/16 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.8 %	30-150		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/22/16 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.061</b>	0.0020	mg/kg	1	1601229	01/22/16	01/23/16	EPA 8260B	
<b>Toluene</b>	<b>0.54</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.47</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2.7</b>	0.010	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>88</b>	0.50	"	"	"	"	"	"	

Date Sampled: **01/22/16 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		119 %	21-167		"	"	"	"	

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Project: Walton 17-25 Wellhead  
Project Number: [none]  
Project Manager: Christine Wasko

**Reported:**  
01/25/16 08:23

**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 1601228 - EPA 3550A**

**Blank (1601228-BLK1)**

Prepared: 01/22/16 Analyzed: 01/23/16

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 11.0 " 12.5 87.6 30-150

**LCS (1601228-BS1)**

Prepared: 01/22/16 Analyzed: 01/23/16

C10-C28 (DRO) 415 50 mg/kg 499 83.1 73-134

Surrogate: o-Terphenyl 11.2 " 12.5 89.7 30-150

**Matrix Spike (1601228-MS1)**

Source: 1601188-01

Prepared: 01/22/16 Analyzed: 01/23/16

C10-C28 (DRO) 411 50 mg/kg 473 16.5 83.4 50-148

Surrogate: o-Terphenyl 10.6 " 11.9 89.6 30-150

**Matrix Spike Dup (1601228-MSD1)**

Source: 1601188-01

Prepared: 01/22/16 Analyzed: 01/23/16

C10-C28 (DRO) 430 50 mg/kg 467 16.5 88.5 50-148 4.49 13

Surrogate: o-Terphenyl 10.6 " 11.7 90.3 30-150

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Project Number: [none]  
Project Manager: Christine Wasko

Reported:  
01/25/16 08:23

**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 1601229 - EPA 5030 Soil MS**

**Blank (1601229-BLK1)**

Prepared & Analyzed: 01/22/16

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0420</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.7</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>	<i>21-167</i>			

**LCS (1601229-BS1)**

Prepared & Analyzed: 01/22/16

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.113	0.0020	"	0.100		113	58-130			
Toluene	0.122	0.0050	"	0.100		122	61-134			
Ethylbenzene	0.130	0.0050	"	0.0992		131	74-139			
m,p-Xylene	0.245	0.010	"	0.200		123	73-137			
o-Xylene	0.119	0.0050	"	0.0984		121	73-141			
Xylenes (total)	0.363	0.010	"				0-200			
Gasoline Range Hydrocarbons	2.59	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.6</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.6</i>	<i>21-167</i>			

**Matrix Spike (1601229-MS1)**

Source: 1601188-01

Prepared & Analyzed: 01/22/16

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.111	0.0020	"	0.0949	ND	117	30-131			
Toluene	0.118	0.0050	"	0.0949	ND	125	30-134			
Ethylbenzene	0.129	0.0050	"	0.0941	ND	137	22-153			
m,p-Xylene	0.244	0.010	"	0.189	ND	129	10-159			
o-Xylene	0.119	0.0050	"	0.0934	ND	128	31-151			
Xylenes (total)	0.363	0.010	"		0.00		30-160			
Gasoline Range Hydrocarbons	2.64	0.50	"		ND		30-160			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0406</i>		<i>"</i>	<i>0.0380</i>		<i>107</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0383</i>		<i>"</i>	<i>0.0380</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0379</i>		<i>"</i>	<i>0.0380</i>		<i>99.8</i>	<i>21-167</i>			

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**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 1601229 - EPA 5030 Soil MS**

Matrix Spike Dup (1601229-MSD1)		Source: 1601188-01			Prepared & Analyzed: 01/22/16					
Naphthalene	ND	0.010	mg/kg		ND		10-158		42	
Benzene	0.108	0.0020	"	0.0924	ND	117	30-131	2.47	34	
Toluene	0.114	0.0050	"	0.0924	ND	124	30-134	3.25	30	
Ethylbenzene	0.127	0.0050	"	0.0917	ND	139	22-153	1.44	24	
m,p-Xylene	0.239	0.010	"	0.184	ND	129	10-159	2.23	68	
o-Xylene	0.116	0.0050	"	0.0909	ND	127	31-151	3.00	38	
Xylenes (total)	0.355	0.010	"		0.00		30-160	2.48	30	
Gasoline Range Hydrocarbons	2.50	0.50	"		ND		30-160	5.19	30	
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0370		104	23-173			
Surrogate: Toluene-d8	0.0365		"	0.0370		98.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0370		100	21-167			

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### 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

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