

**TABLE 1**  
**FORMER WYMAN 34-6 TANK BATTERY**  
**SOIL ANALYTICAL RESULTS SUMMARY TABLE**

Sample ID	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH <sup>(2)</sup> (mg/kg)	pH (units)	EC (mmhos/cm)
COGCC standards for soil (mg/kg) <sup>(1)</sup>			0.17	85	100	175	23	500	6-9	<4
SS01 @ 5'	3/8/2018	5	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	8.04	1.27
SS02 @ 3'	3/27/2018	3	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	8.89	0.405
SS03 @ 3'	3/27/2018	3	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	8.46	0.707
SS04 @ 3'	3/27/2018	3	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	8.25	0.682
SS05 @ 3'	3/27/2018	3	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	8.41	0.694
Bckg01 @ 3'	3/27/2018	3	N/A	N/A	N/A	N/A	N/A	N/A	7.99	0.156
Bckg02 @ 3'	3/27/2018	3	N/A	N/A	N/A	N/A	N/A	N/A	7.32	0.192
Bckg03 @ 3'	3/27/2018	3	N/A	N/A	N/A	N/A	N/A	N/A	8.42	0.582

**Notes:**

- Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective January 30, 2015.
  - TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.
- COGCC = Colorado Oil and Gas Conservation Commission  
(<) = Analytical result is less than the indicated laboratory reporting limit.  
GRO = Total volatile petroleum hydrocarbons - gasoline range organics  
DRO = Total extractable petroleum hydrocarbons - diesel range organics  
mg/kg = Milligrams per kilogram  
bgs = Below ground surface  
EC = Electrical conductivity  
mmhos/cm = Millimhos per centimeter  
N/A = Constituent not analyzed  
**BOLD** = Analytical result is in exceedance of COGCC soil standards.

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

March 15, 2018

Christine Hamlin  
Tasman Geosciences  
6899 Pecos Street  
Denver, CO 80221  
RE: Wyman 34-6

Enclosed are the results of analyses for samples received by Summit Scientific on 03/08/18 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 For Ben Shrewsbury  
Laboratory Manager



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
03/15/18 15:50

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@5'	1803105-01	Soil	03/08/18 13:20	03/08/18 17:00

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.*

## 1803105

Page 1 of 1

Project Manager:	Christine Hamlin
E-Mail:	
Project Name:	Wyman 34-6
Project Number:	

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

# Sample Receipt Checklist

1803105

S2 Work Order: \_\_\_\_\_

Client: Tasman Client Project ID: Wyman 34-6

Shipped Via: P.U. Airbill #: \_\_\_\_\_  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply):    Air X Soil/Solid    Water    Other: \_\_\_\_\_  
(Describe)

Cooler ID					
Temp (°C)	5.3				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ?				
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	X			
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
If custody seals are present, are they intact <sup>(1)</sup> ?			X	
Are short holding time analytes or samples with HTs due within 48 hours present?			X	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?			X	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			X	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?			X	
Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Mus  
Custodian Printed Name

MA 38-18  
Signature or Initials of Custodian

17:30  
Date/Time



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
03/15/18 15:50

**SS01@5'**  
**1803105-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/08/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803125	03/09/18	03/10/18	8015M	

Date Sampled: **03/08/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.0 %	30-150		"	"	"	"	

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

Date Sampled: **03/08/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1803126	"	03/10/18	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/08/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.5 %	21-167		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/08/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.04</b>	0.100	pH Units	1	1803129	03/09/18	03/09/18	EPA 9045	

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
03/15/18 15:50

**SS01@5'**  
**1803105-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Specific Conductance by EPA120.1**

Date Sampled: **03/08/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>1.27</b>	0.0100	mmhos/cm	1	1803127	03/09/18	03/13/18	EPA 120.1	

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
03/15/18 15:50

**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 1803125 - EPA 3550A**

**Blank (1803125-BLK1)**

Prepared: 03/09/18 Analyzed: 03/10/18

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.1 " 12.5 96.9 30-150

**LCS (1803125-BS1)**

Prepared: 03/09/18 Analyzed: 03/10/18

C10-C28 (DRO) 401 50 mg/kg 499 80.4 73-134

Surrogate: o-Terphenyl 14.1 " 12.5 113 30-150

**Matrix Spike (1803125-MS1)**

**Source: 1803105-01**

Prepared: 03/09/18 Analyzed: 03/10/18

C10-C28 (DRO) 421 50 mg/kg 499 17.3 81.0 50-148

Surrogate: o-Terphenyl 13.5 " 12.5 108 30-150

**Matrix Spike Dup (1803125-MSD1)**

**Source: 1803105-01**

Prepared: 03/09/18 Analyzed: 03/10/18

C10-C28 (DRO) 408 50 mg/kg 499 17.3 78.2 50-148 3.31 20

Surrogate: o-Terphenyl 13.2 " 12.5 106 30-150

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
03/15/18 15:50

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

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

**Batch 1803126 - EPA 5030 Soil MS**

**Blank (1803126-BLK1)**

Prepared: 03/09/18 Analyzed: 03/10/18

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>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0366</i>		<i>"</i>	<i>0.0400</i>		<i>91.4</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0375</i>		<i>"</i>	<i>0.0400</i>		<i>93.8</i>	<i>21-167</i>			

**LCS (1803126-BS1)**

Prepared: 03/09/18 Analyzed: 03/10/18

Naphthalene	0.167	0.010	mg/kg	0.150		111	66-138			
Benzene	0.140	0.0020	"	0.150		93.6	58-130			
Toluene	0.132	0.0050	"	0.150		87.7	61-134			
Ethylbenzene	0.135	0.0050	"	0.150		90.1	74-139			
m,p-Xylene	0.255	0.010	"	0.300		85.0	73-137			
o-Xylene	0.134	0.0050	"	0.150		89.2	73-141			
Xylenes (total)	0.389	0.010	"				0-200			
Gasoline Range Hydrocarbons	13.1	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0383</i>		<i>"</i>	<i>0.0400</i>		<i>95.8</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0383</i>		<i>"</i>	<i>0.0400</i>		<i>95.8</i>	<i>21-167</i>			

**Matrix Spike (1803126-MS1)**

**Source: 1803105-01**

Prepared: 03/09/18 Analyzed: 03/10/18

Naphthalene	0.156	0.010	mg/kg	0.150	ND	104	10-158			
Benzene	0.110	0.0020	"	0.150	ND	73.5	30-131			
Toluene	0.102	0.0050	"	0.150	ND	68.3	30-134			
Ethylbenzene	0.104	0.0050	"	0.150	ND	69.2	22-153			
m,p-Xylene	0.195	0.010	"	0.300	ND	65.2	10-159			
o-Xylene	0.103	0.0050	"	0.150	ND	68.3	31-151			
Xylenes (total)	0.298	0.010	"		ND		30-160			
Gasoline Range Hydrocarbons	10.2	0.50	"		ND		30-160			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0448</i>		<i>"</i>	<i>0.0400</i>		<i>112</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.3</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.4</i>	<i>21-167</i>			

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
03/15/18 15:50

**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 1803126 - EPA 5030 Soil MS**

Matrix Spike Dup (1803126-MSD1)		Source: 1803105-01			Prepared: 03/09/18 Analyzed: 03/10/18					
Naphthalene	0.156	0.010	mg/kg	0.150	ND	104	10-158	0.115	42	
Benzene	0.119	0.0020	"	0.150	ND	79.3	30-131	7.64	34	
Toluene	0.111	0.0050	"	0.150	ND	73.7	30-134	7.58	30	
Ethylbenzene	0.117	0.0050	"	0.150	ND	77.7	22-153	11.7	24	
m,p-Xylene	0.220	0.010	"	0.300	ND	73.3	10-159	11.8	68	
o-Xylene	0.115	0.0050	"	0.150	ND	76.7	31-151	11.5	38	
Xylenes (total)	0.335	0.010	"		ND		30-160	11.7	30	
Gasoline Range Hydrocarbons	11.2	0.50	"		ND		30-160	9.10	30	
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0400		108	23-173			
Surrogate: Toluene-d8	0.0380		"	0.0400		95.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	21-167			

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
03/15/18 15:50

**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 1803129 - General Preparation**

**LCS (1803129-BS1)**

Prepared & Analyzed: 03/09/18

pH	9.15	0.100	pH Units	9.16	99.9	95-105
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**Duplicate (1803129-DUP1)**

**Source: 1803110-02**

Prepared & Analyzed: 03/09/18

pH	8.18	0.100	pH Units	8.22	0.488	20
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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
03/15/18 15:50

**Specific Conductance by EPA120.1 - Quality Control**  
**Summit Scientific**

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

**Batch 1803127 - General Preparation**

**Blank (1803127-BLK1)**

Prepared: 03/09/18 Analyzed: 03/13/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (1803127-BS1)**

Prepared: 03/09/18 Analyzed: 03/13/18

Specific Conductance (EC) 0.750 0.0100 mmhos/cm 0.750 100 90-110

**Duplicate (1803127-DUP1)**

**Source: 1803110-02**

Prepared: 03/09/18 Analyzed: 03/13/18

Specific Conductance (EC) 0.574 0.0100 mmhos/cm 0.575 0.261 20

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6

Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
03/15/18 15:50

### 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

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 03, 2018

Christine Hamlin  
Tasman Geosciences  
6899 Pecos Street  
Denver, CO 80221  
RE: Wyman 34-6

Enclosed are the results of analyses for samples received by Summit Scientific on 03/27/18 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury For Ben Shrewsbury  
Laboratory Manager



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6

Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS02@3'	1803346-01	Soil	03/27/18 12:41	03/27/18 16:45
SS03@3'	1803346-02	Soil	03/27/18 12:57	03/27/18 16:45
SS04@3'	1803346-03	Soil	03/27/18 13:12	03/27/18 16:45
SS05@3'	1803346-04	Soil	03/27/18 13:26	03/27/18 16:45
Bckg01@3'	1803346-05	Soil	03/27/18 13:30	03/27/18 16:45
Bckg02@3'	1803346-06	Soil	03/27/18 13:40	03/27/18 16:45
Bckg03@3'	1803346-07	Soil	03/27/18 13:50	03/27/18 16:45

Summit Scientific

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# Summit Scientific

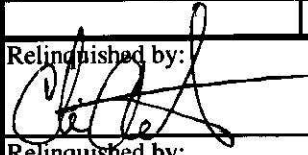
1803346

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

Page 1 of 1

Client: Tasman Geosciences  
Address: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Sampler Name: Chris Armbruster

Project Manager: Christine Hamlin  
E-Mail: chamlin@tasman-geo.com  
Project Name: Wyman 34-6  
Project Number: \_\_\_\_\_

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:										Special Instructions	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	GBTEXN (8260)	DRO (TPH)	EC	PH	Hold For Analysis							
SS02@3'	3/27/2018	12:41	1			X		X				X	X	X	X								
SS03@3'	3/27/2018	12:57	1			X		X				X	X	X	X								
SS04@3'	3/27/2018	1:12	1			X		X				X	X	X	X								
SS05@3'	3/27/2018	1:26	1			X		X				X	X	X	X								
Bckg01@3'	3/27/2018	1:30	1			X		X						X	X								
Bckg02@3'	3/27/2018	1:40	1			X		X						X	X								
Bckg03@3'	3/27/2018	1:50	1			X		X						X	X								
Relinquished by: 				Date/Time: <u>3/27/18 10:45</u>		Received by: <u>3-27-18</u>				Date/Time: <u>10:45</u>		Turn Around Time (Check)										Notes:	
Relinquished by:				Date/Time:		Received by:				Date/Time:		Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>											
Relinquished by:				Date/Time:		Received in Lab by:				Date/Time:		Sample Integrity: Temperature Upon Receipt: <u>40</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											



# Sample Receipt Checklist

S2 Work Order: 1803346

Client: Tasman

Client Project ID: Wyman 34-6

Shipped Via: P.U.

Airbill #: \_\_\_\_\_

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply):      Air   X   Soil/Solid      Water      Other: \_\_\_\_\_  
(Describe)

Temp (°C)	<u>4.0</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ?				
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	X			
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
If custody seals are present, are they intact <sup>(1)</sup> ?			X	
Are short holding time analytes or samples due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?				
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?				
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			1	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?				
Note the type of preservative in the Comments column – HCL, H2SO4, NaOH, HNO3, etc.				
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?				
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			1	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Mwi  
Custodian Printed Name or Initials

M 3-27-18  
Signature of Custodian

17:30  
Date/Time



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**SS02@3'**  
**1803346-01 (Soil)**

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/18 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803322	03/28/18	04/01/18	8015M	

Date Sampled: **03/27/18 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

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

Date Sampled: **03/27/18 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1803321	03/28/18	03/29/18	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/27/18 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.7 %	21-167		"	"	"	"	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/18 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.89</b>	0.100	pH Units	1	1804013	04/02/18	04/03/18	EPA 9045	

Summit Scientific

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6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**SS02@3'**  
**1803346-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Specific Conductance by EPA120.1**

Date Sampled: **03/27/18 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.405</b>	0.0100	mmhos/cm	1	1804014	04/02/18	04/03/18	EPA 120.1	

Summit Scientific

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Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**SS03@3'**  
**1803346-02 (Soil)**

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/18 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803322	03/28/18	04/01/18	8015M	

Date Sampled: **03/27/18 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		106 %	30-150		"	"	"	"	

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

Date Sampled: **03/27/18 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1803321	03/28/18	03/29/18	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/27/18 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.3 %	21-167		"	"	"	"	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/18 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.46</b>	0.100	pH Units	1	1804013	04/02/18	04/03/18	EPA 9045	

Summit Scientific

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Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**SS03@3'**  
**1803346-02 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA120.1**

Date Sampled: **03/27/18 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.707</b>	0.0100	mmhos/cm	1	1804014	04/02/18	04/03/18	EPA 120.1	

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**SS04@3'**  
**1803346-03 (Soil)**

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/18 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803322	03/28/18	04/01/18	8015M	

Date Sampled: **03/27/18 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

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

Date Sampled: **03/27/18 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1803321	03/28/18	03/29/18	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/27/18 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.3 %	21-167		"	"	"	"	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/18 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25	0.100	pH Units	1	1804013	04/02/18	04/03/18	EPA 9045	

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6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**SS04@3'**  
**1803346-03 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA120.1**

Date Sampled: **03/27/18 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.682</b>	0.0100	mmhos/cm	1	1804014	04/02/18	04/03/18	EPA 120.1	

Summit Scientific

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Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**SS05@3'**  
**1803346-04 (Soil)**

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/18 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803322	03/28/18	04/01/18	8015M	

Date Sampled: **03/27/18 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

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

Date Sampled: **03/27/18 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1803321	03/28/18	03/29/18	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/27/18 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.4 %	21-167		"	"	"	"	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/18 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.41</b>	0.100	pH Units	1	1804013	04/02/18	04/03/18	EPA 9045	

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6899 Pecos Street  
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Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**SS05@3'**  
**1803346-04 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA120.1**

Date Sampled: **03/27/18 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.694</b>	0.0100	mmhos/cm	1	1804014	04/02/18	04/03/18	EPA 120.1	

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Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**Bckg01@3'**  
**1803346-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/27/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99	0.100	pH Units	1	1804013	04/02/18	04/03/18	EPA 9045	

**Specific Conductance by EPA120.1**

Date Sampled: **03/27/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.156	0.0100	mmhos/cm	1	1804014	04/02/18	04/03/18	EPA 120.1	

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6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**Bckg02@3'**  
**1803346-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/27/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.32	0.100	pH Units	1	1804013	04/02/18	04/03/18	EPA 9045	

**Specific Conductance by EPA120.1**

Date Sampled: **03/27/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.192	0.0100	mmhos/cm	1	1804014	04/02/18	04/03/18	EPA 120.1	

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**Bckg03@3'**  
**1803346-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/27/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42	0.100	pH Units	1	1804013	04/02/18	04/03/18	EPA 9045	

**Specific Conductance by EPA120.1**

Date Sampled: **03/27/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.582	0.0100	mmhos/cm	1	1804014	04/02/18	04/03/18	EPA 120.1	

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6

Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 1803322 - EPA 3550A**

**Blank (1803322-BLK1)**

Prepared: 03/28/18 Analyzed: 04/01/18

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 13.4 " 12.5 108 30-150

**LCS (1803322-BS1)**

Prepared: 03/28/18 Analyzed: 04/01/18

C10-C28 (DRO) 470 50 mg/kg 499 94.2 73-134

Surrogate: o-Terphenyl 14.5 " 12.5 116 30-150

**Matrix Spike (1803322-MS1)**

**Source: 1803331-01**

Prepared: 03/28/18 Analyzed: 04/01/18

C10-C28 (DRO) 772 50 mg/kg 499 22.0 150 50-148 QM-07

Surrogate: o-Terphenyl 11.4 " 12.5 90.8 30-150

**Matrix Spike Dup (1803322-MSD1)**

**Source: 1803331-01**

Prepared: 03/28/18 Analyzed: 04/01/18

C10-C28 (DRO) 556 50 mg/kg 499 22.0 107 50-148 32.5 20 QM-07

Surrogate: o-Terphenyl 17.3 " 12.5 139 30-150

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

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

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

**Batch 1803321 - EPA 5030 Soil MS**

**Blank (1803321-BLK1)**

Prepared & Analyzed: 03/28/18

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>0.0339</i>		<i>"</i>	<i>0.0400</i>		<i>84.8</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0339</i>		<i>"</i>	<i>0.0400</i>		<i>84.7</i>	<i>21-167</i>			

**LCS (1803321-BS1)**

Prepared & Analyzed: 03/28/18

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0934	0.0020	"	0.100		93.4	58-130			
Toluene	0.0977	0.0050	"	0.100		97.7	61-134			
Ethylbenzene	0.107	0.0050	"	0.0992		108	74-139			
m,p-Xylene	0.209	0.010	"	0.200		105	73-137			
o-Xylene	0.104	0.0050	"	0.0980		106	73-141			
Xylenes (total)	0.313	0.010	"				0-200			
Gasoline Range Hydrocarbons	2.17	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0352</i>		<i>"</i>	<i>0.0400</i>		<i>88.0</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0332</i>		<i>"</i>	<i>0.0400</i>		<i>83.0</i>	<i>21-167</i>			

**Matrix Spike (1803321-MS1)**

Source: 1803331-01

Prepared & Analyzed: 03/28/18

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.0901	0.0020	"	0.100	ND	90.1	30-131			
Toluene	0.0928	0.0050	"	0.100	ND	92.8	30-134			
Ethylbenzene	0.0985	0.0050	"	0.0992	ND	99.3	22-153			
m,p-Xylene	0.190	0.010	"	0.200	ND	95.3	10-159			
o-Xylene	0.0965	0.0050	"	0.0980	ND	98.5	31-151			
Xylenes (total)	0.287	0.010	"		ND		30-160			
Gasoline Range Hydrocarbons	2.07	0.50	"		ND		30-160			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0358</i>		<i>"</i>	<i>0.0400</i>		<i>89.6</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0430</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0332</i>		<i>"</i>	<i>0.0400</i>		<i>83.0</i>	<i>21-167</i>			

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6  
Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**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 1803321 - EPA 5030 Soil MS**

Matrix Spike Dup (1803321-MSD1)		Source: 1803331-01			Prepared & Analyzed: 03/28/18					
Naphthalene	ND	0.010	mg/kg		ND		10-158		42	
Benzene	0.0814	0.0020	"	0.100	ND	81.4	30-131	10.1	34	
Toluene	0.0842	0.0050	"	0.100	ND	84.2	30-134	9.63	30	
Ethylbenzene	0.0918	0.0050	"	0.0992	ND	92.6	22-153	7.03	24	
m,p-Xylene	0.179	0.010	"	0.200	ND	89.5	10-159	6.26	68	
o-Xylene	0.0892	0.0050	"	0.0980	ND	91.0	31-151	7.85	38	
Xylenes (total)	0.268	0.010	"		ND		30-160	6.79	30	
Gasoline Range Hydrocarbons	1.91	0.50	"		ND		30-160	7.95	30	
Surrogate: 1,2-Dichloroethane-d4	0.0358		"	0.0400		89.5	23-173			
Surrogate: Toluene-d8	0.0425		"	0.0400		106	20-170			
Surrogate: 4-Bromofluorobenzene	0.0332		"	0.0400		83.0	21-167			

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6

Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**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 1804013 - General Preparation**

**LCS (1804013-BS1)**

Prepared: 04/02/18 Analyzed: 04/03/18

pH	9.14	0.100	pH Units	9.16	99.8	95-105
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**Duplicate (1804013-DUP1)**

**Source: 1803331-01**

Prepared: 04/02/18 Analyzed: 04/03/18

pH	7.75	0.100	pH Units	7.75	0.00	20
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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: Wyman 34-6

Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

**Specific Conductance by EPA120.1 - Quality Control**  
**Summit Scientific**

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

**Batch 1804014 - General Preparation**

**Blank (1804014-BLK1)**

Prepared: 04/02/18 Analyzed: 04/03/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (1804014-BS1)**

Prepared: 04/02/18 Analyzed: 04/03/18

Specific Conductance (EC) 0.750 0.0100 mmhos/cm 0.750 100 90-110

**Duplicate (1804014-DUP1)**

**Source: 1803331-01**

Prepared: 04/02/18 Analyzed: 04/03/18

Specific Conductance (EC) 16.5 0.0100 mmhos/cm 16.3 1.22 20

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Wyman 34-6

Project Number: [none]  
Project Manager: Christine Hamlin

**Reported:**  
04/03/18 13:25

### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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