



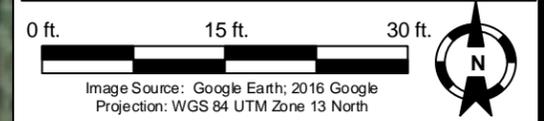
SS05@6'  
 B - <0.0020 mg/kg  
 T - <0.0050 mg/kg  
 E - <0.0050 mg/kg  
 X - <0.010 mg/kg  
 TPH - <50 mg/kg  
 N - <0.010 mg/kg

SS02@3'  
 B - <0.0020 mg/kg  
 T - <0.0050 mg/kg  
 E - <0.0050 mg/kg  
 X - <0.010 mg/kg  
 TPH - <50 mg/kg  
 N - <0.010 mg/kg  
 SAR - 0.212  
 EC - 0.423 mmhos/cm  
 pH - 8.96

- Legend**
- Excavation Sample Location
  - Excavation Sample Location (Not Submitted for Laboratory Analysis)
  - Excavation Extent (Collected via Trimble GPS)
  - mg/kg Milligrams Per Kilogram
  - mmhos/cm Millimhos Per Centimeter

- Notes**
- 1) All locations are approximate unless otherwise noted
  - 2) **RED** value indicates concentration greater than COGCC table 910-1 soil standard (see table below).
  - 3) GPS – Global Positioning System

Contaminant of Concern	COGCC Concentration Standard
B - Benzene	0.17 mg/kg
T - Toluene	85 mg/kg
E - Ethylbenzene	100 mg/kg
X - Total Xylenes	175 mg/kg
TPH- Total Petroleum Hydrocarbons	500 mg/kg
N - Naphthalene	23 mg/kg
SAR - Sodium Absorption Ratio	<12 <sup>5</sup>
EC - Electrical Conductivity	<4mmhos/cm or 2x background
pH	6-9



DATE: 09/05/2017  
 DESIGNED BY: DC  
 DRAWN BY: GB

**TASMAN GEOSCIENCES**  
 Tasman Geosciences, Inc.  
 6899 Pecos Street – Unit C  
 Denver, CO 80221

**Noble Energy**  
**Bauer 01-34 Vault Removal – Facility ID:244655**  
 NENW, Section 34, Township 6 North, Range 66 West  
 Weld County, Colorado

Excavation Soil Analytical  
 Results Map  
 (08/30/2017)

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 08, 2017

Brandon Bruns  
Tasman Geosciences  
6899 Pecos Street  
Denver, CO 80221  
RE: Noble - Bauer 01-34

Enclosed are the results of analyses for samples received by Summit Scientific on 08/31/17 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
Laboratory Manager



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Noble - Bauer 01-34

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
09/08/17 09:15

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS02@3'	1708287-01	Soil	08/30/17 13:02	08/31/17 10:00
SS05@6'	1708287-02	Soil	08/30/17 13:08	08/31/17 10:00

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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.*

# Summit Scientific

1708287

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

Page 1 of 1

Client: Noble/Tasman  
Address: -  
City/State/Zip: -  
Phone: 303-487-1228 Fax: -  
Sampler Name: GB

Project Manager: Brandon Bruns, Invoice: Jacob Evans  
E-Mail: Bbruns@tasman-geo.com  
Project Name: Bauer 01-34  
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)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR			
SS02 @ 3'	8/30/17	1302	1			X			X					X	X	X		
SS05 @ 6'	8/30/17	1308	1			X			X					X	X			
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/30/17 10:00</u>				Received by: <u>[Signature]</u> Date/Time: <u>8/30/17 10:00</u>				Turn Around Time (Check)				Notes:						
								Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>				Standard <input checked="" type="checkbox"/>						
								24 Hours <input type="checkbox"/>										
								48 Hours <input type="checkbox"/>										
Relinquished by: <u> </u> Date/Time: <u> </u>				Received in Lab by: <u> </u> Date/Time: <u> </u>				Sample Integrity: <u>3.1°C</u>										
								Temperature Upon Receipt: <u>3.1°C</u>										
								Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>										

1708287

Sample Receipt Checklist

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

Client: Noble/Tasman Client Project ID: Bauer 01-34

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

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

Cooler ID					
Temp (°C)	3.1				

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.	✓			
Were all samples received intact <sup>(1)</sup> ?	✓			
Was adequate sample volume provided <sup>(1)</sup> ?	✓			
If custody seals are present, are they intact <sup>(1)</sup> ?			✓	
Are short holding time analytes or samples with HTs due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	✓			
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 w/ date and time recorded <sup>(1)</sup> ?	✓			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>			✓	
Are samples preserved that require preservation <b>(excluding cooling)</b> <sup>(1)</sup> ?			✓	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			✓	
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?			✓	

Additional Comments (if any):

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

Nakita  
 Custodian Printed Name

[Signature]  
 Signature or Initials of Custodian

8/31/17 1040  
 Date/Time



Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Noble - Bauer 01-34

Project Number: [none]  
Project Manager: Brandon Bruns

Reported:  
09/08/17 09:15

**SS02@3'**  
**1708287-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/30/17 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1709008	09/01/17	09/02/17	8015M	

Date Sampled: **08/30/17 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		96.7 %	30-150		"	"	"	"	

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

Date Sampled: **08/30/17 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1709007	09/01/17	09/01/17	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/30/17 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	21-167		"	"	"	"	

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

Date Sampled: **08/30/17 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	<b>1360</b>	10.7	mg/kg dry	1	1709019	09/05/17	09/07/17	EPA 6020/Mod. USDA60 6(2, 3A)	

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Noble - Bauer 01-34

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
09/08/17 09:15

**SS02@3'**  
**1708287-01 (Soil)**

**Summit Scientific**

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Magnesium	240	5.34	mg/kg dry	1	1709019	09/05/17	09/07/17	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium	32.2	5.34	"	"	"	"	"	"
Sodium Adsorption Ratio	0.212		units	"	1709040	09/07/17	09/07/17	"

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

Date Sampled: **08/30/17 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.96	0.100	pH Units	1	1709038	09/06/17	09/06/17	EPA 9045	
Specific Conductance (EC)	0.423	0.0100	mmhos/cm	"	1709039	09/06/17	09/07/17	SM 2510B	
% Solids	93.7		%	"	1709018	09/05/17	09/06/17	% calculation	

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Noble - Bauer 01-34

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
09/08/17 09:15

**SS05@6'**  
**1708287-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/30/17 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1709008	09/01/17	09/02/17	8015M	

Date Sampled: **08/30/17 13:08**

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

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

Date Sampled: **08/30/17 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1709007	09/01/17	09/02/17	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/30/17 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Noble - Bauer 01-34

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
09/08/17 09:15

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

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

**Batch 1709008 - EPA 3550A**

**Blank (1709008-BLK1)**

Prepared & Analyzed: 09/01/17

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	13.2		"	12.5		106	30-150				

**LCS (1709008-BS1)**

Prepared: 09/01/17 Analyzed: 09/02/17

C10-C28 (DRO)	436	50	mg/kg	499		87.4	73-134				
<i>Surrogate: o-Terphenyl</i>	13.2		"	12.5		106	30-150				

**Matrix Spike (1709008-MS1)**

Source: 1708287-01

Prepared: 09/01/17 Analyzed: 09/02/17

C10-C28 (DRO)	437	50	mg/kg	499	15.2	84.6	50-148				
<i>Surrogate: o-Terphenyl</i>	13.2		"	12.5		105	30-150				

**Matrix Spike Dup (1709008-MSD1)**

Source: 1708287-01

Prepared: 09/01/17 Analyzed: 09/02/17

C10-C28 (DRO)	423	50	mg/kg	499	15.2	81.7	50-148	3.33	20		
<i>Surrogate: o-Terphenyl</i>	12.2		"	12.5		97.9	30-150				

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Noble - Bauer 01-34

Project Number: [none]  
Project Manager: Brandon Brunns

Reported:  
09/08/17 09:15

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

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

**Batch 1709007 - EPA 5030 Soil MS**

**Blank (1709007-BLK1)**

Prepared & Analyzed: 09/01/17

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	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0368</i>		<i>"</i>	<i>0.0400</i>		<i>92.0</i>		<i>21-167</i>		

**LCS (1709007-BS1)**

Prepared & Analyzed: 09/01/17

Naphthalene	ND	0.010	mg/kg					66-138		
Benzene	0.0824	0.0020	"	0.100		82.4		58-130		
Toluene	0.0976	0.0050	"	0.100		97.6		61-134		
Ethylbenzene	0.111	0.0050	"	0.0992		112		74-139		
m,p-Xylene	0.219	0.010	"	0.200		109		73-137		
o-Xylene	0.105	0.0050	"	0.0980		108		73-141		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.8</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>97.9</i>		<i>21-167</i>		

**Matrix Spike (1709007-MS1)**

Source: 1708276-01

Prepared & Analyzed: 09/01/17

Naphthalene	ND	0.010	mg/kg		ND			10-158		
Benzene	0.0819	0.0020	"	0.100	ND	81.9		30-131		
Toluene	0.0958	0.0050	"	0.100	ND	95.8		30-134		
Ethylbenzene	0.110	0.0050	"	0.0992	ND	111		22-153		
m,p-Xylene	0.218	0.010	"	0.200	ND	109		10-159		
o-Xylene	0.108	0.0050	"	0.0980	ND	110		31-151		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0421</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0384</i>		<i>"</i>	<i>0.0400</i>		<i>96.0</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.2</i>		<i>21-167</i>		

Summit Scientific

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Noble - Bauer 01-34

Project Number: [none]  
Project Manager: Brandon Brunns

**Reported:**  
09/08/17 09:15

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

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

**Batch 1709007 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1709007-MSD1)</b>	<b>Source: 1708276-01</b>			<b>Prepared &amp; Analyzed: 09/01/17</b>						
Naphthalene	ND	0.010	mg/kg	ND	ND	10-158			42	
Benzene	0.0814	0.0020	"	0.100	ND	81.4	30-131	0.624	34	
Toluene	0.0924	0.0050	"	0.100	ND	92.4	30-134	3.67	30	
Ethylbenzene	0.111	0.0050	"	0.0992	ND	112	22-153	0.788	24	
m,p-Xylene	0.212	0.010	"	0.200	ND	106	10-159	2.71	68	
o-Xylene	0.103	0.0050	"	0.0980	ND	105	31-151	4.35	38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</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>			

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Noble - Bauer 01-34

Project Number: [none]  
Project Manager: Brandon Bruns

Reported:  
09/08/17 09:15

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

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

**Batch 1709019 - General Preparation**

**Blank (1709019-BLK1)**

Prepared: 09/05/17 Analyzed: 09/06/17

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

**LCS (1709019-BS1)**

Prepared: 09/05/17 Analyzed: 09/06/17

Calcium	500	10.0	mg/kg wet	500	100	82.9-118			
Magnesium	526	5.00	"	500	105	77.1-123			
Sodium	491	5.00	"	500	98.3	71-129			

**Duplicate (1709019-DUP1)**

Source: 1708285-01

Prepared: 09/05/17 Analyzed: 09/07/17

Calcium	1180	12.5	mg/kg dry		1230			3.90	200
Magnesium	196	6.27	"		221			11.7	200
Sodium	832	6.27	"		827			0.664	200

**Matrix Spike (1709019-MS1)**

Source: 1708285-01

Prepared: 09/05/17 Analyzed: 09/07/17

Calcium	1750	12.5	mg/kg dry	627	1230	82.8	75-125		
Magnesium	841	6.27	"	627	221	98.9	75-125		
Sodium	1370	6.27	"	627	827	86.0	75-125		

**Matrix Spike Dup (1709019-MSD1)**

Source: 1708285-01

Prepared: 09/05/17 Analyzed: 09/07/17

Calcium	1740	12.5	mg/kg dry	627	1230	81.6	75-125	0.459	25
Magnesium	882	6.27	"	627	221	105	75-125	4.78	25
Sodium	1410	6.27	"	627	827	93.1	75-125	3.19	25

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Tasman Geosciences  
6899 Pecos Street  
Denver CO, 80221

Project: Noble - Bauer 01-34

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
09/08/17 09:15

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

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

**Batch 1709018 - General Preparation**

<b>Duplicate (1709018-DUP1)</b>	<b>Source: 1708285-01</b>			Prepared: 09/05/17 Analyzed: 09/06/17						
% Solids	77.9		%		79.7			2.28	20	

**Batch 1709038 - General Preparation**

<b>LCS (1709038-BS1)</b>				Prepared & Analyzed: 09/06/17						
pH	9.22	0.100	pH Units	9.16		101	95-105			
<b>Duplicate (1709038-DUP1)</b>	<b>Source: 1708281-01</b>			Prepared & Analyzed: 09/05/17						
pH	8.51	0.100	pH Units		8.49			0.235	20	

**Batch 1709039 - General Preparation**

<b>Blank (1709039-BLK1)</b>				Prepared: 09/06/17 Analyzed: 09/07/17						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
<b>LCS (1709039-BS1)</b>				Prepared: 09/06/17 Analyzed: 09/07/17						
Specific Conductance (EC)	0.750	0.0100	mmhos/cm	0.750		100	90-110			
<b>Duplicate (1709039-DUP1)</b>	<b>Source: 1708281-01</b>			Prepared: 09/06/17 Analyzed: 09/07/17						
Specific Conductance (EC)	0.297	0.0100	mmhos/cm		0.297			0.0505	20	

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  
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Project: Noble - Bauer 01-34

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
09/08/17 09:15

### 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