



SS08@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 - 0.159
 EC - 0.442 mmhos/cm
 pH - 8.54

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 - 0.484
 EC - 0.391 mmhos/cm
 pH - 8.86

SS03@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 - 0.283
 EC - 0.590 mmhos/cm
 pH - 8.59

SS09@5'
 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

SS10@5'
 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

SS11@5'
 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

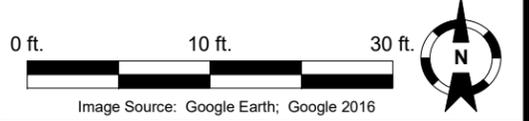
Legend

- Excavation Sample Location
- Excavation Sample Location (Not Submitted for Laboratory Analysis)
- Excavation Extent

Notes

- 1) Site Coordinates: 40.594636, -104.519092
 - 2) All locations are approximate unless otherwise noted
 - 3) **RED** value indicates concentration greater than COGCC table 910-1 soil standard (see table below).
- GPS – Global Positioning System
 mg/kg – Milligrams Per Kilogram
 mmhos/cm – Millimhos Per Centimeter

| 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 ⁵ |
| EC – Electrical Conductivity | <4mmhos/cm or 2x background |
| pH | 6-9 |



DATE: 07/27/2017
 DESIGNED BY: TL
 DRAWN BY: TL

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

Noble Energy, Inc. – DJ Basin
Shable USX AB 11-22, 06 Vault Removal – Location ID: 310767
 NENW, Section 11, Township 7 North, Range 64 West
 Weld County, Colorado

Excavation Soil Analytical
 Results Map
 (07/11/2018)

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 06, 2018

Brandon Bruns

Tasman Geosciences

6899 Pecos St, Unit C

Denver, CO 80221

RE: Noble - Shable USX AB 11-22, 06

Enclosed are the results of analyses for samples received by Summit Scientific on 07/11/18 18:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Paul Shrewsbury For Ben Shrewsbury

Laboratory Manager



Tasman Geosciences
6899 Pecos St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
08/06/18 16:16

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| SS02@3' | 1807130-02 | Soil | 07/11/18 13:40 | 07/11/18 18:30 |
| SS03@3' | 1807130-03 | Soil | 07/11/18 13:38 | 07/11/18 18:30 |
| SS08@3' | 1807130-08 | Soil | 07/11/18 13:49 | 07/11/18 18:30 |
| SS09@5' | 1807130-09 | Soil | 07/11/18 13:43 | 07/11/18 18:30 |
| SS10@5' | 1807130-10 | Soil | 07/11/18 13:47 | 07/11/18 18:30 |
| SS11@5' | 1807130-11 | Soil | 07/11/18 13:39 | 07/11/18 18:30 |

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

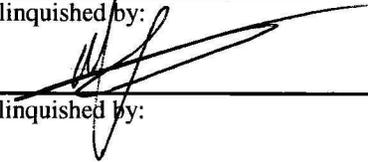
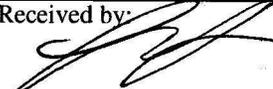
1807130.1

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

Page 1 of 2

Client: Noble/Tasman
Address: -
City/State/Zip: -
Phone: 970.210.6571 Fax: -
Sampler Name: T. Lichtenberg

Project Manager: Brandon Bruns, Invoice: Jacob Evans
E-Mail: Bbruns@tasman-geo.com
Project Name: SHABLE USX AB 11-22, 06
Project Number: -

| Sample Description | Date Sampled | Time Sampled | Number of Containers | Preservative | | | | Matrix | | | Analyze For: | | | | Special Instructions | |
|--|--------------|-------------------------|---|--------------|-------------------------|-----------------------------------|-----------------|-------------|---|-------------------------|-----------------|-----------|--------------|----------|----------------------|---|
| | | | | HCl | HNO ₃ | None | Other (Specify) | Groundwater | Soil | Air - Canister Serial # | Other (Specify) | 8260 BTEX | 8260B GBTEXN | 8015 DRO | | pH, EC, SAR |
| SS0103' | 7/11/18 | 1342 | 1 | | | X | | | X | | | | | | | PLEASE HOLD -SS0103' -SS0403' -SS0503' -SS0603' -SS0703' |
| SS0203' | | 1340 | | | | | | | | | | X | X | X | | |
| SS0303' | | 1338 | | | | | | | | | | X | X | X | | |
| SS0403' | | 1337 | | | | | | | | | | | | | | |
| SS0503' | | 1344 | | | | | | | | | | | | | | |
| SS0603' | | 1346 | | | | | | | | | | | | | | |
| SS0703' | | 1348 | | | | | | | | | | | | | | |
| SS0803' | | 1349 | | | | | | | | | | X | X | X | | |
| SS0905' | | 1343 | | | | | | | | | | X | X | | | |
| SS1005' | | 1347 | | | | | | | | | | X | X | | | |
| Relinquished by:  | | Date/Time: 7.11.18 1830 | Received by:  | | Date/Time: 7.11.18 1830 | Turn Around Time (Check) | | | Notes: | | | | | | | |
| Relinquished by: | | Date/Time: | Received by: | | Date/Time: | Same Day <input type="checkbox"/> | | | 72 Hours <input type="checkbox"/> | | | | | | | |
| Relinquished by: | | Date/Time: | Received in Lab by: | | Date/Time: | 24 Hours <input type="checkbox"/> | | | Standard <input checked="" type="checkbox"/> | | | | | | | |
| Relinquished by: | | Date/Time: | Received in Lab by: | | Date/Time: | 48 Hours <input type="checkbox"/> | | | Sample Integrity: | | | | | | | |
| | | | | | | Temperature Upon Receipt: 10.1 | | | Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | |

Sample Receipt Checklist

1807130

S2 Work Order: _____

Client: Noble/Tasman

Client Project ID: Shable USX AB 11-22, a6

Shipped Via: Pickup
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: _____

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

| | |
|-----------|-------------|
| Temp (°C) | <u>10.1</u> |
|-----------|-------------|

Thermometer ID: 61857155-K

| | Yes | No | N/A | Comments (if any) |
|--|-------------------------------------|--------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 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 ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If custody seals are present, are they intact ⁽¹⁾ ? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples with holding times due within 48 hours sample due within 48 hours present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 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 ⁽¹⁾ ? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Record the pH in Comments. | | | | |
| If dissolved metals are requested, were samples field filtered? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Additional Comments (if any): | | | | |

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

WD
Custodian Printed Name or Initials

[Signature]
Signature or Initials of Custodian

7.11.18 1830
Date/Time



Tasman Geosciences
6899 Pecos St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
08/06/18 16:16

SS02@3'
1807130-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/11/18 13:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | 1807118 | 07/12/18 | 07/12/18 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.010 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **07/11/18 13:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.0 % | | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 100 % | | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 96.5 % | | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/11/18 13:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | 1807117 | 07/12/18 | 07/14/18 | EPA 8015M | |

Date Sampled: **07/11/18 13:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | | 103 % | | 30-150 | | " | " | " | " | |

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

Date Sampled: **07/11/18 13:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 2020 | 11.4 | | mg/kg dry | 1 | 1807133 | 07/12/18 | 07/12/18 | EPA 6020B | |

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 St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Brun

Reported:
08/06/18 16:16

SS02@3'
1807130-02 (Soil)

Summit Scientific

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

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| Magnesium | 586 | 5.70 | mg/kg dry | 1 | 1807133 | 07/12/18 | 07/12/18 | EPA 6020B | |
| Sodium | 96.0 | 5.70 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **07/11/18 13:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.484 | 0.100 | units | 1 | 1807150 | 07/13/18 | 07/13/18 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/11/18 13:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|----------|----------|---------|----------|----------|-------------|-------|
| % Solids | 87.7 | | % | 1 | 1807120 | 07/12/18 | 07/12/18 | Calculation | |
| pH | 8.86 | | pH Units | " | 1807170 | 07/16/18 | 07/16/18 | EPA 9045D | |

Specific Conductance by EPA Method 120.1

Date Sampled: **07/11/18 13:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.391 | 0.0100 | mmhos/cm | 1 | 1807169 | 07/16/18 | 07/16/18 | EPA 120.1 | |

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 St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Brun

Reported:
08/06/18 16:16

SS03@3'
1807130-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/11/18 13:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | 1807118 | 07/12/18 | 07/12/18 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.010 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **07/11/18 13:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 98.5 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 98.6 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 96.3 % | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/11/18 13:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | 1807117 | 07/12/18 | 07/14/18 | EPA 8015M | |

Date Sampled: **07/11/18 13:38**

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

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

Date Sampled: **07/11/18 13:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 3640 | 11.8 | mg/kg dry | 1 | 1807133 | 07/12/18 | 07/12/18 | EPA 6020B | |
| Magnesium | 601 | 5.92 | " | " | " | " | " | " | |

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 St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
08/06/18 16:16

SS03@3'
1807130-03 (Soil)

Summit Scientific

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

| | | | | | | | | |
|---------------|-------------|------|-----------|---|---------|----------|----------|-----------|
| Sodium | 70.0 | 5.92 | mg/kg dry | 1 | 1807133 | 07/12/18 | 07/12/18 | EPA 6020B |
|---------------|-------------|------|-----------|---|---------|----------|----------|-----------|

Calculated Analysis

Date Sampled: **07/11/18 13:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.283 | 0.100 | units | 1 | 1807150 | 07/13/18 | 07/13/18 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/11/18 13:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------------|----------|----------|---------|----------|----------|-------------|-------|
| % Solids | 84.5 | | % | 1 | 1807120 | 07/12/18 | 07/12/18 | Calculation | |
| pH | 8.59 | | pH Units | " | 1807170 | 07/16/18 | 07/16/18 | EPA 9045D | |

Specific Conductance by EPA Method 120.1

Date Sampled: **07/11/18 13:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.590 | 0.0100 | mmhos/cm | 1 | 1807169 | 07/16/18 | 07/16/18 | EPA 120.1 | |

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 St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Brun

Reported:
08/06/18 16:16

SS08@3'
1807130-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/11/18 13:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | 1807118 | 07/12/18 | 07/12/18 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.010 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **07/11/18 13:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 98.1 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 101 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 96.8 % | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/11/18 13:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | 1807117 | 07/12/18 | 07/14/18 | EPA 8015M | |

Date Sampled: **07/11/18 13:49**

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

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

Date Sampled: **07/11/18 13:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 4990 | 11.7 | mg/kg dry | 1 | 1807133 | 07/12/18 | 07/12/18 | EPA 6020B | |
| Magnesium | 491 | 5.87 | " | " | " | " | " | " | |

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 St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
08/06/18 16:16

SS08@3'
1807130-08 (Soil)

Summit Scientific

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

| | | | | | | | | |
|---------------|-------------|------|-----------|---|---------|----------|----------|-----------|
| Sodium | 43.9 | 5.87 | mg/kg dry | 1 | 1807133 | 07/12/18 | 07/12/18 | EPA 6020B |
|---------------|-------------|------|-----------|---|---------|----------|----------|-----------|

Calculated Analysis

Date Sampled: **07/11/18 13:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.159 | 0.100 | units | 1 | 1807150 | 07/13/18 | 07/13/18 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/11/18 13:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------------|----------|----------|---------|----------|----------|-------------|-------|
| % Solids | 85.2 | | % | 1 | 1807120 | 07/12/18 | 07/12/18 | Calculation | |
| pH | 8.54 | | pH Units | " | 1807170 | 07/16/18 | 07/16/18 | EPA 9045D | |

Specific Conductance by EPA Method 120.1

Date Sampled: **07/11/18 13:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.442 | 0.0100 | mmhos/cm | 1 | 1807169 | 07/16/18 | 07/16/18 | EPA 120.1 | |

Summit Scientific

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Tasman Geosciences
6899 Pecos St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Brun

Reported:
08/06/18 16:16

SS09@5'
1807130-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/11/18 13:43**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | 1807118 | 07/12/18 | 07/12/18 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.010 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **07/11/18 13:43**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.4 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 100 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 97.0 % | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/11/18 13:43**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | 1807117 | 07/12/18 | 07/14/18 | EPA 8015M | |

Date Sampled: **07/11/18 13:43**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: o-Terphenyl | | 103 % | 30-150 | | " | " | " | " | |

Summit Scientific

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Tasman Geosciences
6899 Pecos St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Brun

Reported:
08/06/18 16:16

SS10@5'
1807130-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/11/18 13:47**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | 1807118 | 07/12/18 | 07/12/18 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.010 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **07/11/18 13:47**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.6 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 98.8 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 97.2 % | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/11/18 13:47**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | 1807117 | 07/12/18 | 07/14/18 | EPA 8015M | |

Date Sampled: **07/11/18 13:47**

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

Summit Scientific

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Tasman Geosciences
6899 Pecos St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Brun

Reported:
08/06/18 16:16

SS11@5'
1807130-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/11/18 13:39**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | 1807118 | 07/12/18 | 07/12/18 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.010 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **07/11/18 13:39**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 108 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 101 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 98.6 % | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/11/18 13:39**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | 1807117 | 07/12/18 | 07/14/18 | EPA 8015M | |

Date Sampled: **07/11/18 13:39**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | | 102 % | 30-150 | | " | " | " | " | |

Summit Scientific

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Tasman Geosciences
6899 Pecos St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
08/06/18 16:16

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 1807118 - EPA 5030 Soil MS

Blank (1807118-BLK1)

Prepared & Analyzed: 07/12/18

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | |
| Naphthalene | ND | 0.010 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 50 | " | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0370 | | " | 0.0396 | | 93.4 | 23-173 | | | |
| Surrogate: Toluene-d8 | 0.0398 | | " | 0.0400 | | 99.6 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0382 | | " | 0.0400 | | 95.6 | 21-167 | | | |

LCS (1807118-BS1)

Prepared & Analyzed: 07/12/18

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.0775 | 0.0020 | mg/kg | 0.100 | | 77.5 | 70-130 | | | |
| Toluene | 0.0819 | 0.0050 | " | 0.100 | | 81.9 | 70-130 | | | |
| Ethylbenzene | 0.0796 | 0.0050 | " | 0.100 | | 79.6 | 70-130 | | | |
| m,p-Xylene | 0.153 | 0.010 | " | 0.200 | | 76.5 | 70-130 | | | |
| o-Xylene | 0.0789 | 0.0050 | " | 0.100 | | 78.9 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0357 | | " | 0.0396 | | 90.2 | 23-173 | | | |
| Surrogate: Toluene-d8 | 0.0412 | | " | 0.0400 | | 103 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0384 | | " | 0.0400 | | 96.1 | 21-167 | | | |

Matrix Spike (1807118-MS1)

Source: 1807129-01

Prepared & Analyzed: 07/12/18

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.0978 | 0.0020 | mg/kg | 0.100 | ND | 97.8 | 70-130 | | | |
| Toluene | 0.0717 | 0.0050 | " | 0.100 | ND | 71.7 | 70-130 | | | |
| Ethylbenzene | 0.0715 | 0.0050 | " | 0.100 | ND | 71.5 | 70-130 | | | |
| m,p-Xylene | 0.196 | 0.010 | " | 0.200 | ND | 98.2 | 70-130 | | | |
| o-Xylene | 0.0711 | 0.0050 | " | 0.100 | ND | 71.1 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0370 | | " | 0.0396 | | 93.4 | 23-173 | | | |
| Surrogate: Toluene-d8 | 0.0410 | | " | 0.0400 | | 103 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0386 | | " | 0.0400 | | 96.4 | 21-167 | | | |

Summit Scientific

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Tasman Geosciences
6899 Pecos St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Brun

Reported:
08/06/18 16:16

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 1807118 - EPA 5030 Soil MS

| Matrix Spike Dup (1807118-MSD1) | Source: 1807129-01 | | | Prepared & Analyzed: 07/12/18 | | | | | | |
|--|---------------------------|--------|-------|--|----|------|--------|------|----|--|
| Benzene | 0.0759 | 0.0020 | mg/kg | 0.100 | ND | 75.9 | 70-130 | 25.2 | 30 | |
| Toluene | 0.0808 | 0.0050 | " | 0.100 | ND | 80.8 | 70-130 | 12.0 | 30 | |
| Ethylbenzene | 0.0779 | 0.0050 | " | 0.100 | ND | 77.9 | 70-130 | 8.60 | 30 | |
| m,p-Xylene | 0.151 | 0.010 | " | 0.200 | ND | 75.3 | 70-130 | 26.4 | 30 | |
| o-Xylene | 0.0780 | 0.0050 | " | 0.100 | ND | 78.0 | 70-130 | 9.30 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0366 | | " | 0.0396 | | 92.4 | 23-173 | | | |
| Surrogate: Toluene-d8 | 0.0409 | | " | 0.0400 | | 102 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0380 | | " | 0.0400 | | 95.1 | 21-167 | | | |

Summit Scientific

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Tasman Geosciences
6899 Pecos St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
08/06/18 16:16

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 1807117 - EPA 3550A

Blank (1807117-BLK1)

Prepared: 07/12/18 Analyzed: 07/13/18

C10-C28 (DRO) ND 50 mg/kg

LCS (1807117-BS1)

Prepared: 07/12/18 Analyzed: 07/13/18

C10-C28 (DRO) 471 50 mg/kg 500 94.1 70-130

Matrix Spike (1807117-MS1)

Source: 1807129-01

Prepared: 07/12/18 Analyzed: 07/13/18

C10-C28 (DRO) 487 50 mg/kg 500 27.8 91.8 70-130

Matrix Spike Dup (1807117-MSD1)

Source: 1807129-01

Prepared: 07/12/18 Analyzed: 07/13/18

C10-C28 (DRO) 471 50 mg/kg 500 27.8 88.6 70-130 3.30 20

Summit Scientific

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Tasman Geosciences
6899 Pecos St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Brun

Reported:
08/06/18 16:16

Soluble Nutrients by EPA 6020/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 | | |

Batch 1807133 - General Preparation

Blank (1807133-BLK1)

Prepared & Analyzed: 07/12/18

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

LCS (1807133-BS1)

Prepared & Analyzed: 07/12/18

| | | | | | | | | | |
|-----------|-----|------|-----------|-----|--|------|--------|--|--|
| Calcium | 486 | 10.0 | mg/kg wet | 500 | | 97.2 | 70-130 | | |
| Magnesium | 518 | 5.00 | " | 500 | | 104 | 70-130 | | |
| Sodium | 534 | 5.00 | " | 500 | | 107 | 70-130 | | |

Duplicate (1807133-DUP1)

Source: 1807094-01

Prepared & Analyzed: 07/12/18

| | | | | | | | | | |
|-----------|------|------|-----------|--|------|--|--|------|----|
| Calcium | 1720 | 12.6 | mg/kg dry | | 2010 | | | 15.6 | 20 |
| Magnesium | 730 | 6.30 | " | | 832 | | | 13.1 | 20 |
| Sodium | 789 | 6.30 | " | | 781 | | | 1.07 | 20 |

Matrix Spike (1807133-MS1)

Source: 1807094-01

Prepared & Analyzed: 07/12/18

| | | | | | | | | | |
|-----------|------|------|-----------|-----|------|------|--------|--|--|
| Calcium | 2460 | 12.6 | mg/kg dry | 630 | 2010 | 71.3 | 70-130 | | |
| Magnesium | 1400 | 6.30 | " | 630 | 832 | 89.4 | 70-130 | | |
| Sodium | 1500 | 6.30 | " | 630 | 781 | 114 | 70-130 | | |

Matrix Spike Dup (1807133-MSD1)

Source: 1807094-01

Prepared & Analyzed: 07/12/18

| | | | | | | | | | |
|-----------|------|------|-----------|-----|------|------|--------|------|----|
| Calcium | 2530 | 12.6 | mg/kg dry | 630 | 2010 | 82.6 | 70-130 | 2.84 | 25 |
| Magnesium | 1490 | 6.30 | " | 630 | 832 | 105 | 70-130 | 6.76 | 25 |
| Sodium | 1530 | 6.30 | " | 630 | 781 | 119 | 70-130 | 1.89 | 25 |

Summit Scientific

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Tasman Geosciences
6899 Pecos St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
08/06/18 16:16

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

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

Batch 1807120 - General Preparation

| | | | | | | | | | | |
|---------------------------------|------|---------------------------|---|--|-------------------------------|--|--|-------|----|--|
| Duplicate (1807120-DUP1) | | Source: 1807128-01 | | | Prepared & Analyzed: 07/12/18 | | | | | |
| % Solids | 95.7 | | % | | 95.9 | | | 0.236 | 20 | |

Batch 1807170 - General Preparation

| | | | | | | | | | | |
|---------------------------------|-----|-------------------------------|----------|------|-------------------------------|------|--------|----|--|--|
| LCS (1807170-BS1) | | Prepared & Analyzed: 07/16/18 | | | | | | | | |
| pH | 9.2 | | pH Units | 9.18 | | 99.7 | 95-105 | | | |
| Duplicate (1807170-DUP1) | | Source: 1807129-02 | | | Prepared & Analyzed: 07/16/18 | | | | | |
| pH | 8.3 | | pH Units | 8.4 | | | 0.960 | 20 | | |

Summit Scientific

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Tasman Geosciences
 6899 Pecos St, Unit C
 Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
 Project Manager: Brandon Brunns

Reported:
 08/06/18 16:16

Specific Conductance by EPA Method 120.1 - Quality Control
Summit Scientific

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

Batch 1807169 - General Preparation

LCS (1807169-BS1)

Prepared & Analyzed: 07/16/18

| | | | | | | |
|---------------------------|-------|--------|----------|-------|------|--------|
| Specific Conductance (EC) | 0.748 | 0.0100 | mmhos/cm | 0.750 | 99.7 | 90-110 |
|---------------------------|-------|--------|----------|-------|------|--------|

Duplicate (1807169-DUP1)

Source: 1807129-02

Prepared & Analyzed: 07/16/18

| | | | | | | |
|---------------------------|-------|--------|----------|-------|------|----|
| Specific Conductance (EC) | 0.896 | 0.0100 | mmhos/cm | 0.910 | 1.55 | 20 |
|---------------------------|-------|--------|----------|-------|------|----|

Summit Scientific

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Tasman Geosciences
6899 Pecos St, Unit C
Denver CO, 80221

Project: Noble - Shable USX AB 11-22, 06

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
08/06/18 16:16

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