

TABLE 1
SOIL SAMPLE LOCATIONS
NOBLE ENERGY, INC. - GUTTERSEN D10-29

| Soil Sample ID | Date | PID (ppm) | Visual | Olfactory | Sample Type (Grab/Lab) | Latitude ¹ | Longitude | PDOP |
|----------------|----------|-----------|-------------|-----------|------------------------|-----------------------|--------------|------|
| FL01-B@2' | 11/09/22 | 0.6 | No Staining | No Odor | Lab | 40.24883307 | -104.5405490 | 0.9 |
| FL01-C@3' | 11/09/22 | 1.8 | No Staining | No Odor | Lab | 40.24760720 | -104.5413782 | 0.8 |

Notes:

PID = Photo-ionization detector

ppm = parts per million

PDOP = Position dilution of precision

HC = Hydrocarbon

1.) Latitude and longitude coordinates will be provided in decimal degrees with an accuracy and precision of 5 decimals of a degree using the North American Datum ("NAD") of 1983

TABLE 2
SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - GUTTERSEN D10-29

| Soil Sample ID | Date | ¹ Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | 1,2,4 - TMB (mg/kg) | 1,3,5 - TMB (mg/kg) | Naphthalene (mg/kg) | TPH-GRO (mg/kg) | TPH-DRO (mg/kg) | TPH-ORO (mg/kg) | Acenaphthene (mg/kg) | Anthracene (mg/kg) | Benz(a) (mg/kg) | Benzo(a) (mg/kg) | Benzo(b) (mg/kg) | Benzo(k) (mg/kg) | Chrysene (mg/kg) | A,H (mg/kg) | Fluoranthene (mg/kg) | Fluorene (mg/kg) | 1,2,3-CD (mg/kg) | Pyrene (mg/kg) | 1-M (mg/kg) | 2-M (mg/kg) |
|--|----------|------------------------------|-----------------|----------------------|-----------------------|---------------------|---------------------|---------------------|-----------------|-----------------|-----------------|----------------------|--------------------|-----------------|------------------|------------------|------------------|------------------|-------------|----------------------|------------------|------------------|----------------|-------------|-------------|
| Residential SSL ² | | 1.2 | 490 | 5.8 | 58 | 30 | 27 | 2 | 500 | | | 360 | 1,800 | 1.1 | 0.11 | 1.1 | 11 | 110 | 0.11 | 240 | 240 | 1.1 | 180 | 18 | 24 |
| Protection of Groundwater SSL ^{2,3} | | 0.0026 | 0.69 | 0.78 | 9.9 | 0.0081 | 0.0087 | 0.0038 | 500 | | | 0.55 | 6 | 0.011 | 0.24 | 0.3 | 2.9 | 9 | 0.096 | 8.9 | 0.54 | 0.98 | 1.3 | 0.006 | 0.019 |
| FL01-B@2' | 11/09/22 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.00201 | <0.200 | <25.0 | <100 | <0.00067 | <0.00067 | <0.00067 | <0.00067 | <0.00067 | <0.00067 | <0.00067 | <0.00067 | <0.00067 | <0.00067 | <0.00067 | <0.00067 | <0.00201 | <0.00201 |
| FL01-C@3' | 11/09/22 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.00872 | <0.200 | <25.0 | <100 | 0.0125 | 0.0194 | 0.0191 | 0.0164 | 0.0121 | 0.0105 | 0.0185 | 0.00252 | 0.0516 | 0.0177 | 0.00727 | 0.0425 | <0.00201 | 0.0034 |

| Soil Sample ID | Date | pH | SAR | EC (mmhos/cm) | Boron (mg/L) |
|------------------------------|----------|---------|-------|---------------|--------------|
| Residential SSL ² | | 6 - 8.3 | <6 | <4mmhos/cm | 2 |
| FL01-B@2' | 11/09/22 | 7.93 | 0.303 | 0.147 | <0.0997 |
| FL01-C@3' | 11/09/22 | 8.22 | 0.902 | 0.259 | <0.100 |

Notes:

- Compounds referenced from 2 CCR 404-1, Table 915-1, effective January 15, 2021.
- Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
- SSLs are applicable if a pathway for communication with groundwater is present.

Definitions:

COGCC = Colorado Oil and Gas Conservation Commission

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

< = Analytical result is less than the indicated laboratory reporting limit

Highlighted results are equal to or exceed the COGCC Table 915-1 standard

1,2,4 - TMB = 1,2,4 Trimethylbenzene

1,3,5 - TMB = 1,3,5 Trimethylbenzene

Benz(a) = Benzantracene

Benzo(b) = Benzofluoranthene

Benzo(k) = Benzofluoranthene

Benzo(a) = Benzopyrene

A,H = Dibenzoanthracene

1,2,3-CD = Indenopyrene

1-M = 1-methylnaphthalene

2-M = 2-methylnaphthalene

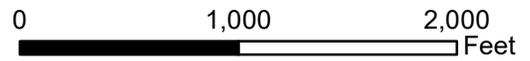
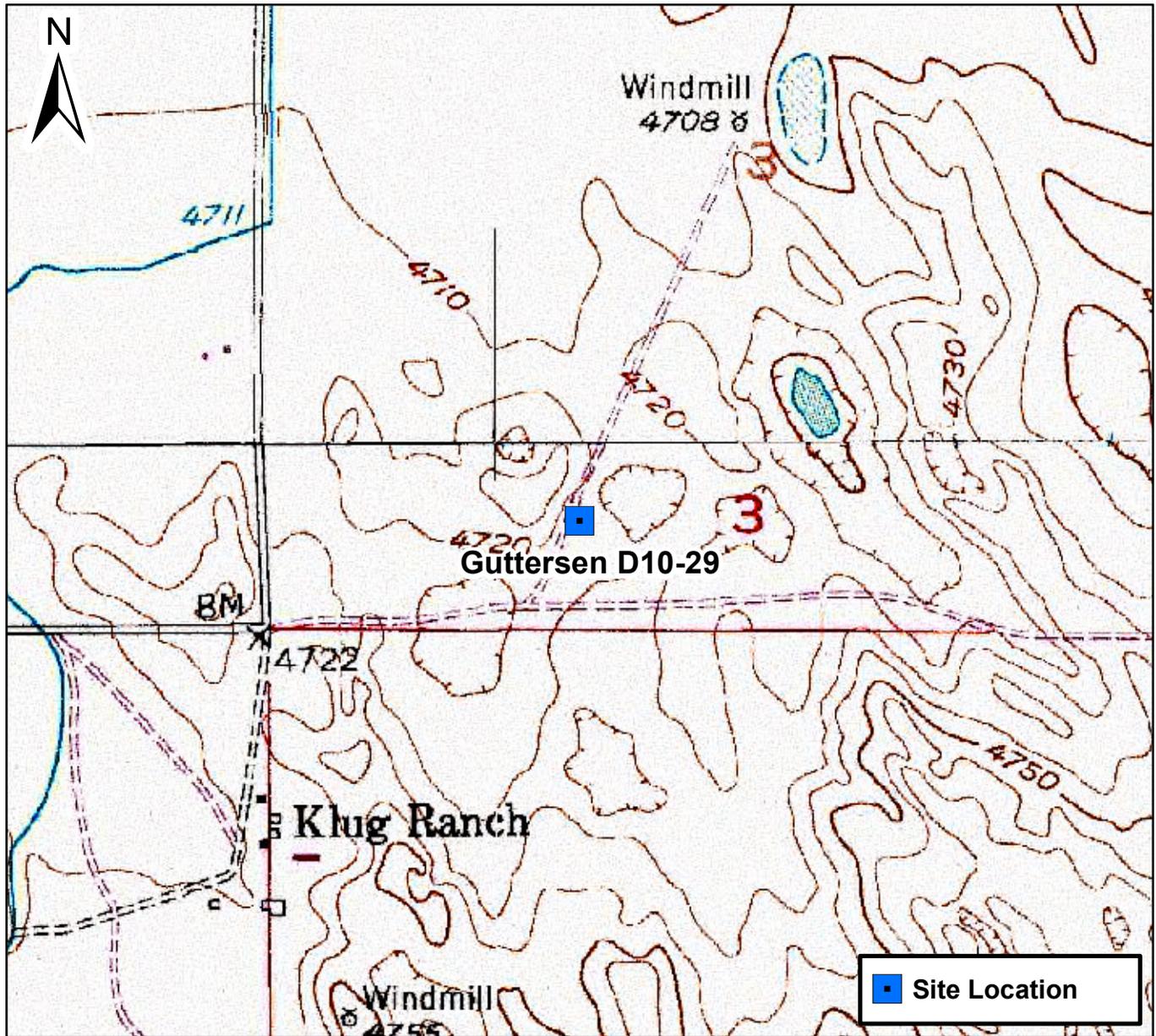


Figure 1

Site Location Map
 Güttersen D10-29
 SESW S3 T3N R64W
 Weld County, Colorado





FL01-B@2'
(11/09/2022)
PID = 0.6 ppm

FL01-C@3'
(11/09/2022)
PID = 1.8 ppm
Benzo(a)anthracene = 0.0191 mg/kg
Naphthalene = 0.00872 mg/kg

Legend

-  Soil Sample Location – Lab Analyzed (Collected via Trimble GPS)
-  Flowline Location

Notes

- 1) All locations are approximate unless otherwise noted.
- 2) Buried infrastructure has been spatially projected.
- 3) Analytical results below laboratory detection limits or within compliance of COGCC Table 915-1 not shown.
- 4) Concentration in exceedance of COGCC table 915-1 soil standards indicated in **RED**.

GPS – Global Positioning System
mg/kg – Milligrams per kilogram

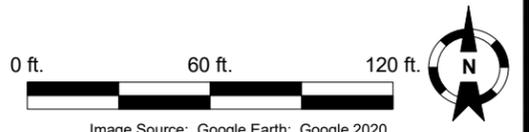


Image Source: Google Earth; Google 2020

| | |
|--------------|------------|
| DATE: | 11/18/2022 |
| DESIGNED BY: | JW |
| DRAWN BY: | cc |



TASMAN
GEOSCIENCES

Tasman Geosciences, Inc.
6855 W 119th Avenue
Broomfield, CO 80020

Noble Energy, Inc. – DJ Basin
Guttersen D10-29
SESW, Section 3, Township 3 North, Range 64 West
Weld County, Colorado

Flowline Soil
Analytical Results Map
(11/09/2022)

FIGURE
2

Photographic Log



| | | | | | | | |
|--------------------------------|----------------|----------------------------------|--|---|----------------|---------------------------------|--|
| Equipment ID: FL01-B@2' | | Equipment Type: Separator | | Equipment ID: FL01-C@3' | | Equipment Type: Flowline | |
| Material: Steel | Volume: | Contents: Oil/Gas/Water | | Material: Steel | Volume: | Contents: Oil/Gas/Water | |
| Notes/Conditions: | | | | Notes/Conditions: Abandonment occurs between FL01-C@3' and FL01-B@2' | | | |

November 18, 2022

Tasman Geosciences

Jake Whritenour

6855 West 119th Avenue

Broomfield CO 80020

Project Name - Noble - Guttersen D10-29

Project Number - [none]

Attached are your analytical results for Noble - Guttersen D10-29 received by Origins Laboratory, Inc. November 09, 2022. This project is associated with Origins project number Y211263-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jake Whritenour
Project Number: [none]
Project: Noble - Guttersen D10-29

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|------------------------|------------------|
| FL01-B@2' | Y211263-01 | Soil | November 9, 2022 12:20 | 11/09/2022 14:20 |
| FL01-C@3' | Y211263-02 | Soil | November 9, 2022 12:35 | 11/09/2022 14:20 |

Origins Laboratory, Inc.



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
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4211203

Client: Tasman

Client Project ID: Guttersen D10-29

Checklist Completed by: ISH/DE

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

Date/time completed: 11/9/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 13.9 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: T004

| Requirement Description | Yes | No | N/A | Comments (if any) |
|---|-----|----|-----|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ? | | X | | |
| Is there ice present (document if blue ice is used) | X | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | X | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | X | | |
| Were all samples received intact ⁽¹⁾ ? | X | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | X | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | | X | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | X | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | X | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | X | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | X | | | |
| For volatiles in water – is there headspace (> ¼ inch bubbles) present? If yes, contact client and note in narrative. | | | X | |
| Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH) | | | X | |
| Additional Comments (if any): | | | | |

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: JB (Project Manager)

Date/Time Reviewed: 11/09/12

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

FL01-B@2'

11/9/2022 12:20:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Y211263-01 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

| | | | | | | | | | |
|-------|----|--------|------|---|---------|-----|------------|------------|--|
| Boron | ND | 0.0997 | mg/L | 1 | B2K1012 | KAP | 11/10/2022 | 11/11/2022 | |
|-------|----|--------|------|---|---------|-----|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B2K1001 | ADM | 11/10/2022 | 11/17/2022 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | ADM | " | " | U |

Surrogate: *o*-Terphenyl 96.8 % 50-150 " " "

GBTEX+TMBs by 8260D

| | | | | | | | | | |
|-----------------------------|----|---------|-------|---|---------|-----|------------|------------|---|
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | 1 | B2K1043 | HKS | 11/10/2022 | 11/15/2022 | U |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | " | " | HKS | " | " | U |
| Benzene | ND | 0.00200 | " | " | " | HKS | " | " | U |
| Ethylbenzene | ND | 0.00200 | " | " | " | HKS | " | " | U |
| Toluene | ND | 0.00200 | " | " | " | HKS | " | " | U |
| Xylenes, total | ND | 0.00200 | " | " | " | HKS | " | " | U |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | " | " | HKS | " | " | U |

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "
 Surrogate: Toluene-d8 94.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

FL01-B@2'

11/9/2022 12:20:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Y211263-01 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|-------|-------|-------|----|--------|-----|------------|------------|
| Calcium | 0.777 | 0.499 | meq/L | 10 | [CALC] | KAP | 11/11/2022 | 11/15/2022 |
| Magnesium | ND | 0.823 | " | " | " | KAP | " | " |
| Sodium | ND | 0.435 | " | " | " | KAP | " | " |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|
| pH | 7.93 | | pH Units | 1 | B2K1112 | HJD | 11/11/2022 | 11/15/2022 |
|----|------|--|----------|---|---------|-----|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|-------|--|-----|---|---------|-----|------------|------------|
| SAR | 0.303 | | SAR | 1 | B2K1104 | KAP | 11/11/2022 | 11/15/2022 |
|-----|-------|--|-----|---|---------|-----|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|-----|------------|------------|
| Specific Conductance (EC) | 0.147 | 0.00500 | mmhos/cm | 1 | B2K1112 | HJD | 11/11/2022 | 11/15/2022 |
|---------------------------|-------|---------|----------|---|---------|-----|------------|------------|

Waypoint Analytical, LLC.

PAH by 8270D SIM

| | | | | | | | | |
|---------------------|----|---------|-------|---|---------|--|------------|------------|
| 1-Methylnaphthalene | ND | 0.00201 | mg/Kg | 1 | L648698 | | 11/14/2022 | 11/14/2022 |
| 2-Methylnaphthalene | ND | 0.00201 | " | " | " | | " | " |
| Acenaphthene | ND | 0.00067 | " | " | " | | " | " |
| Anthracene | ND | 0.00067 | " | " | " | | " | " |

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

FL01-B@2'

11/9/2022 12:20:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Y211263-01 (Soil)

Waypoint Analytical, LLC.

PAH by 8270D SIM

| | | | | | | | | | |
|------------------------|----|---------|-------|---|---------|--|------------|------------|--|
| Benzo(a)anthracene | ND | 0.00067 | mg/Kg | 1 | L648698 | | 11/14/2022 | 11/14/2022 | |
| Benzo(a)pyrene | ND | 0.00067 | " | " | " | | " | " | |
| Benzo(b)fluoranthene | ND | 0.00067 | " | " | " | | " | " | |
| Benzo(k)fluoranthene | ND | 0.00067 | " | " | " | | " | " | |
| Chrysene | ND | 0.00067 | " | " | " | | " | " | |
| Dibenz(a,h)anthracene | ND | 0.00067 | " | " | " | | " | " | |
| Fluoranthene | ND | 0.00067 | " | " | " | | " | " | |
| Fluorene | ND | 0.00067 | " | " | " | | " | " | |
| Indeno(1,2,3-cd)pyrene | ND | 0.00067 | " | " | " | | " | " | |
| Naphthalene | ND | 0.00201 | " | " | " | | " | " | |
| Pyrene | ND | 0.00067 | " | " | " | | " | " | |

| | | | | | | | | | |
|-----------------------------|--------|--------|--|--|---|--|---|---|--|
| Surrogate: 2-Fluorobiphenyl | 50.8 % | 33-115 | | | " | | " | " | |
| Surrogate: 4-Terphenyl-d14 | 54.7 % | 33-122 | | | " | | " | " | |
| Surrogate: Nitrobenzene-d5 | 40.2 % | 29-110 | | | " | | " | " | |

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

FL01-C@3'

11/9/2022 12:35:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Y211263-02 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

| | | | | | | | | | |
|-------|----|-------|------|---|---------|-----|------------|------------|--|
| Boron | ND | 0.100 | mg/L | 1 | B2K1012 | KAP | 11/10/2022 | 11/11/2022 | |
|-------|----|-------|------|---|---------|-----|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B2K1001 | ADM | 11/10/2022 | 11/17/2022 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | ADM | " | " | U |

Surrogate: *o*-Terphenyl 94.8 % 50-150 " " "

GBTEX+TMBs by 8260D

| | | | | | | | | | |
|-----------------------------|----|---------|-------|---|---------|-----|------------|------------|---|
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | 1 | B2K1043 | HKS | 11/10/2022 | 11/15/2022 | U |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | " | " | HKS | " | " | U |
| Benzene | ND | 0.00200 | " | " | " | HKS | " | " | U |
| Ethylbenzene | ND | 0.00200 | " | " | " | HKS | " | " | U |
| Toluene | ND | 0.00200 | " | " | " | HKS | " | " | U |
| Xylenes, total | ND | 0.00200 | " | " | " | HKS | " | " | U |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | " | " | HKS | " | " | U |

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "
 Surrogate: Toluene-d8 95.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

FL01-C@3'

11/9/2022 12:35:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Y211263-02 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|-------|-------|-------|----|--------|-----|------------|------------|
| Calcium | 1.13 | 0.499 | meq/L | 10 | [CALC] | KAP | 11/11/2022 | 11/15/2022 |
| Magnesium | ND | 0.823 | " | " | " | KAP | " | " |
| Sodium | 0.817 | 0.435 | " | " | " | KAP | " | " |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|
| pH | 8.22 | | pH Units | 1 | B2K1112 | HJD | 11/11/2022 | 11/15/2022 |
|----|------|--|----------|---|---------|-----|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|-------|--|-----|---|---------|-----|------------|------------|
| SAR | 0.902 | | SAR | 1 | B2K1104 | KAP | 11/11/2022 | 11/15/2022 |
|-----|-------|--|-----|---|---------|-----|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|-----|------------|------------|
| Specific Conductance (EC) | 0.259 | 0.00500 | mmhos/cm | 1 | B2K1112 | HJD | 11/11/2022 | 11/15/2022 |
|---------------------------|-------|---------|----------|---|---------|-----|------------|------------|

Waypoint Analytical, LLC.

PAH by 8270D SIM

| | | | | | | | | |
|---------------------|--------|---------|-------|---|---------|--|------------|------------|
| 1-Methylnaphthalene | ND | 0.00201 | mg/Kg | 1 | L648698 | | 11/14/2022 | 11/14/2022 |
| 2-Methylnaphthalene | 0.0034 | 0.00201 | " | " | " | | " | " |
| Acenaphthene | 0.0125 | 0.00067 | " | " | " | | " | " |
| Anthracene | 0.0194 | 0.00067 | " | " | " | | " | " |
| Benzo(a)anthracene | 0.0191 | 0.00067 | " | " | " | | " | " |

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

FL01-C@3'

11/9/2022 12:35:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Y211263-02 (Soil)

Waypoint Analytical, LLC.

PAH by 8270D SIM

| | | | | | | | | | |
|------------------------|---------|---------|-------|---|---------|--|------------|------------|--|
| Benzo(a)pyrene | 0.0164 | 0.00067 | mg/Kg | 1 | L648698 | | 11/14/2022 | 11/14/2022 | |
| Benzo(b)fluoranthene | 0.0121 | 0.00067 | " | " | " | | " | " | |
| Benzo(k)fluoranthene | 0.0105 | 0.00067 | " | " | " | | " | " | |
| Chrysene | 0.0185 | 0.00067 | " | " | " | | " | " | |
| Dibenz(a,h)anthracene | 0.00252 | 0.00067 | " | " | " | | " | " | |
| Fluoranthene | 0.0516 | 0.00067 | " | " | " | | " | " | |
| Fluorene | 0.0177 | 0.00067 | " | " | " | | " | " | |
| Indeno(1,2,3-cd)pyrene | 0.00727 | 0.00067 | " | " | " | | " | " | |
| Naphthalene | 0.00872 | 0.00201 | " | " | " | | " | " | |
| Pyrene | 0.0425 | 0.00067 | " | " | " | | " | " | |

| | | | | | | | | | |
|-----------------------------|--------|--------|--|--|---|--|---|---|--|
| Surrogate: 2-Fluorobiphenyl | 52.1 % | 33-115 | | | " | | " | " | |
| Surrogate: 4-Terphenyl-d14 | 63.3 % | 33-122 | | | " | | " | " | |
| Surrogate: Nitrobenzene-d5 | 44.5 % | 29-110 | | | " | | " | " | |

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B2K1001 - EPA 3580 | | | | | | | | | | |
| Blank (B2K1001-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 11/10/2022 Analyzed: 11/11/2022 | | | | | |
| Diesel (C10-C28) | ND | 25.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 23 | | " | 24.9 | | 91.4 | 50-150 | | | |

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

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

Batch B2K1001 - EPA 3580

LCS (B2K1001-BS1)

Prepared: 11/10/2022 Analyzed: 11/11/2022

| | | | | | | | | | | |
|-----------------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 983 | 50.0 | mg/kg | 1000 | | 98.3 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 914 | 200 | " | 1000 | | 91.4 | 70-130 | | | |
| Surrogate: o-Terphenyl | 46 | | " | 49.8 | | 92.4 | 50-150 | | | |

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

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

Batch B2K1001 - EPA 3580

| Matrix Spike (B2K1001-MS1) | Source: Y211255-01 | | | Prepared: 11/10/2022 Analyzed: 11/11/2022 | | | | | | |
|-----------------------------------|---------------------------|------|-------|---|----|------|--------|--|--|--|
| Diesel (C10-C28) | 995 | 50.0 | mg/kg | 1000 | ND | 99.5 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 900 | 200 | " | 1000 | ND | 90.0 | 70-130 | | | |
| Surrogate: o-Terphenyl | 50 | | " | 49.8 | | 101 | 50-150 | | | |

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Tasman Geosciences
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 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

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

Batch B2K1001 - EPA 3580

| Matrix Spike Dup (B2K1001-MSD1) | Source: Y211255-01 | | Prepared: 11/10/2022 Analyzed: 11/11/2022 | | | | | | | |
|--|---------------------------|------|--|------|----|------|--------|------|----|--|
| Diesel (C10-C28) | 796 | 50.0 | mg/kg | 1000 | ND | 79.6 | 70-130 | 22.2 | 35 | |
| Residual Range Organics (C28-C40) | 712 | 200 | " | 1000 | ND | 71.2 | 70-130 | 23.4 | 35 | |
| Surrogate: o-Terphenyl | 35 | | " | 49.8 | | 70.9 | 50-150 | | | |

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Tasman Geosciences
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 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

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

Batch B2K1043 - EPA 5030 (soil)

Blank (B2K1043-BLK1)

Prepared: 11/10/2022 Analyzed: 11/14/2022

| | | | | | | | | | | |
|----------------------------------|------|---------|-------|-------|------|--|--------|--|--|---|
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | | | | | | | U |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | | | | | | | U |
| Benzene | ND | 0.00200 | " | | | | | | | U |
| Ethylbenzene | ND | 0.00200 | " | | | | | | | U |
| Naphthalene | ND | 0.00380 | " | | | | | | | U |
| Toluene | ND | 0.00200 | " | | | | | | | U |
| Xylenes, total | ND | 0.00200 | " | | | | | | | U |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 0.15 | | " | 0.125 | 117 | | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | 96.5 | | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | 102 | | 70-130 | | | |

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

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

Batch B2K1043 - EPA 5030 (soil)

LCS (B2K1043-BS1)

Prepared: 11/10/2022 Analyzed: 11/14/2022

| | | | | | | | | | | |
|----------------------------------|--------|---------|-------|-------|--|------|--------|--|--|--|
| 1,2,4-Trimethylbenzene | 0.0946 | 0.00200 | mg/kg | 0.100 | | 94.6 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0962 | 0.00200 | " | 0.100 | | 96.2 | 70-130 | | | |
| Benzene | 0.106 | 0.00200 | " | 0.100 | | 106 | 70-130 | | | |
| Ethylbenzene | 0.0941 | 0.00200 | " | 0.100 | | 94.1 | 70-130 | | | |
| Naphthalene | 0.106 | 0.00380 | " | 0.100 | | 106 | 70-130 | | | |
| Toluene | 0.102 | 0.00200 | " | 0.100 | | 102 | 70-130 | | | |
| o-Xylene | 0.0969 | 0.00200 | " | 0.100 | | 96.9 | 70-130 | | | |
| m,p-Xylene | 0.185 | 0.00400 | " | 0.200 | | 92.4 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.14 | | " | 0.125 | | 112 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 98.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | | 105 | 70-130 | | | |

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

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

Batch B2K1043 - EPA 5030 (soil)

| Matrix Spike (B2K1043-MS1) | Source: Y211226-01 | | | Prepared: 11/10/2022 Analyzed: 11/14/2022 | | | | | | |
|----------------------------------|--------------------|---------|-------|---|----------|------|--------|--|--|-------|
| 1,2,4-Trimethylbenzene | 0.0656 | 0.00200 | mg/kg | 0.100 | 0.000680 | 64.9 | 70-130 | | | QM-07 |
| 1,3,5-Trimethylbenzene | 0.0641 | 0.00200 | " | 0.100 | ND | 64.1 | 70-130 | | | QM-07 |
| Benzene | 0.0875 | 0.00200 | " | 0.100 | ND | 87.5 | 70-130 | | | |
| Ethylbenzene | 0.0711 | 0.00200 | " | 0.100 | ND | 71.1 | 70-130 | | | |
| Naphthalene | 0.0669 | 0.00380 | " | 0.100 | 0.00168 | 65.2 | 70-130 | | | QM-07 |
| Toluene | 0.0795 | 0.00200 | " | 0.100 | 0.000800 | 78.7 | 70-130 | | | |
| o-Xylene | 0.0722 | 0.00200 | " | 0.100 | ND | 72.2 | 70-130 | | | |
| m,p-Xylene | 0.138 | 0.00400 | " | 0.200 | 0.00106 | 68.4 | 70-130 | | | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.15 | | " | 0.125 | | 118 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 94.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | | 106 | 70-130 | | | |

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

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

Batch B2K1043 - EPA 5030 (soil)

| Matrix Spike Dup (B2K1043-MSD1) | Source: Y211226-01 | | | Prepared: 11/10/2022 Analyzed: 11/14/2022 | | | | | | |
|----------------------------------|--------------------|---------|-------|---|----------|------|--------|------|----|--|
| 1,2,4-Trimethylbenzene | 0.0757 | 0.00200 | mg/kg | 0.100 | 0.000680 | 75.0 | 70-130 | 14.4 | 20 | |
| 1,3,5-Trimethylbenzene | 0.0757 | 0.00200 | " | 0.100 | ND | 75.7 | 70-130 | 16.5 | 20 | |
| Benzene | 0.101 | 0.00200 | " | 0.100 | ND | 101 | 70-130 | 14.2 | 20 | |
| Ethylbenzene | 0.0831 | 0.00200 | " | 0.100 | ND | 83.1 | 70-130 | 15.5 | 20 | |
| Naphthalene | 0.0780 | 0.00380 | " | 0.100 | 0.00168 | 76.4 | 70-130 | 15.4 | 20 | |
| Toluene | 0.0923 | 0.00200 | " | 0.100 | 0.000800 | 91.5 | 70-130 | 14.8 | 20 | |
| o-Xylene | 0.0857 | 0.00200 | " | 0.100 | ND | 85.7 | 70-130 | 17.1 | 20 | |
| m,p-Xylene | 0.163 | 0.00400 | " | 0.200 | 0.00106 | 80.9 | 70-130 | 16.6 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.15 | | " | 0.125 | | 119 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 96.6 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | | 104 | 70-130 | | | |

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Tasman Geosciences
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 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

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

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

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

Batch B2K1012 - DTPA Sorbitol Preparation

Blank (B2K1012-BLK1)

Prepared: 11/10/2022 Analyzed: 11/11/2022

Boron ND 0.100 mg/L

Duplicate (B2K1012-DUP1)

Source: Y211251-01

Prepared: 11/10/2022 Analyzed: 11/11/2022

Boron 1.46 0.100 mg/L 1.52 3.77 50

Batch B2K1104 - Saturated Paste Metals

Blank (B2K1104-BLK1)

Prepared: 11/11/2022 Analyzed: 11/15/2022

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B2K1104-DUP1)

Source: Y211251-02

Prepared: 11/11/2022 Analyzed: 11/15/2022

SAR 0.00 SAR 26.6 200 200

Calcium PPM 403 100 mg/L 410 1.60 50

Magnesium PPM 490 100 " 531 8.13 50

Sodium PPM 3250 100 " 3460 6.16 50

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

Saturated Paste - Quality Control
Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|---------------------------|----------|-------------|---|------|-------------|------|-----------|-------|
| Batch B2K1112 - Saturated Paste pH/EC | | | | | | | | | | |
| Blank (B2K1112-BLK1) | | | | | Prepared: 11/11/2022 Analyzed: 11/15/2022 | | | | | |
| Specific Conductance (EC) | ND | 0.00500 | mmhos/cm | | | | | | | |
| Duplicate (B2K1112-DUP1) | | Source: Y211251-02 | | | Prepared: 11/11/2022 Analyzed: 11/15/2022 | | | | | |
| pH | 8.10 | | pH Units | | 8.10 | | | 0.00 | 25 | |
| Specific Conductance (EC) | 15.5 | 0.00500 | mmhos/cm | | 15.6 | | | 1.06 | 25 | |

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

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

Batch L648698 - 3550B

| MSD (L 89597-MSD-L648698) | | Source: 89597 | | | Prepared: 11/14/2022 Analyzed: 11/14/2022 | | | | | |
|----------------------------------|--------|----------------------|-------|-------|---|------|--------|------|----|---|
| 2-Methylnaphthalene | 0.0898 | 0.00201 | mg/Kg | 0.165 | <0.00194 | 54.4 | 30-130 | 15.6 | 30 | |
| Fluorene | 0.0994 | 0.00067 | " | 0.165 | <0.000286 | 60.2 | 30-130 | 6.4 | 30 | |
| Pyrene | 0.0922 | 0.00067 | " | 0.165 | <0.000643 | 55.8 | 30-130 | 20.2 | 30 | |
| Indeno(1,2,3-cd)pyrene | 0.0903 | 0.00067 | " | 0.165 | <0.000627 | 54.7 | 30-130 | 24 | 30 | |
| Fluoranthene | 0.0986 | 0.00067 | " | 0.165 | <0.000394 | 59.7 | 30-130 | 18.7 | 30 | |
| Dibenz(a,h)anthracene | 0.0945 | 0.00067 | " | 0.165 | <0.000614 | 57.2 | 30-130 | 25.4 | 30 | |
| Chrysene | 0.0961 | 0.00067 | " | 0.165 | <0.000624 | 58.2 | 30-130 | 18.7 | 30 | |
| Naphthalene | 0.0818 | 0.00201 | " | 0.165 | <0.00145 | 49.5 | 30-130 | 18.9 | 30 | |
| 1-Methylnaphthalene | 0.0894 | 0.00201 | " | 0.165 | <0.00109 | 54.1 | 30-130 | 16.9 | 30 | |
| Benzo(k)fluoranthene | 0.0925 | 0.00067 | " | 0.165 | <0.000437 | 56 | 30-130 | 7.7 | 30 | |
| Acenaphthene | 0.0879 | 0.00067 | " | 0.165 | <0.000304 | 53.2 | 30-130 | 16.7 | 30 | |
| Anthracene | 0.0978 | 0.00067 | " | 0.165 | <0.000334 | 59.2 | 30-130 | 15.2 | 30 | |
| Benzo(a)anthracene | 0.0966 | 0.00067 | " | 0.165 | <0.000493 | 58.5 | 30-130 | 17.3 | 30 | |
| Benzo(a)pyrene | 0.115 | 0.00067 | " | 0.165 | <0.000468 | 69.6 | 30-130 | 17.4 | 30 | |
| Benzo(b)fluoranthene | 0.0833 | 0.00067 | " | 0.165 | <0.000585 | 50.4 | 30-130 | 31.1 | 30 | * |
| Surrogate: 2-Fluorobiphenyl | 50 | | " | 0.33 | 181 | 50 | 33-115 | | | |
| Surrogate: Nitrobenzene-d5 | 42.7 | | " | 0.33 | 142 | 42.7 | 29-110 | | | |
| Surrogate: 4-Terphenyl-d14 | 54.5 | | " | 0.33 | 205 | 54.5 | 33-122 | | | |

| MS (L 89597-MS-L648698) | | Source: 89597 | | | Prepared: 11/14/2022 Analyzed: 11/14/2022 | | | | | |
|--------------------------------|--------|----------------------|-------|-------|---|------|--------|--|--|--|
| Benzo(k)fluoranthene | 0.1 | 0.00067 | mg/Kg | 0.167 | <0.000437 | 59.8 | 30-130 | | | |
| Acenaphthene | 0.104 | 0.00067 | " | 0.167 | <0.000304 | 62.2 | 30-130 | | | |
| Naphthalene | 0.0989 | 0.00201 | " | 0.167 | <0.00145 | 59.2 | 30-130 | | | |
| Indeno(1,2,3-cd)pyrene | 0.115 | 0.00067 | " | 0.167 | <0.000627 | 68.8 | 30-130 | | | |
| Fluorene | 0.106 | 0.00067 | " | 0.167 | <0.000286 | 63.4 | 30-130 | | | |
| Fluoranthene | 0.119 | 0.00067 | " | 0.167 | <0.000394 | 71.2 | 30-130 | | | |
| Dibenz(a,h)anthracene | 0.122 | 0.00067 | " | 0.167 | <0.000614 | 73 | 30-130 | | | |

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

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

Batch L648698 - 3550B

| MS (L 89597-MS-L648698) | Source: 89597 | | | Prepared: 11/14/2022 Analyzed: 11/14/2022 | | | | | | |
|--------------------------------|----------------------|---------|-------|--|-----------|------|--------|--|--|--|
| Chrysene | 0.116 | 0.00067 | mg/Kg | 0.167 | <0.000624 | 69.4 | 30-130 | | | |
| 1-Methylnaphthalene | 0.106 | 0.00201 | " | 0.167 | <0.00109 | 63.4 | 30-130 | | | |
| Benzo(a)pyrene | 0.137 | 0.00067 | " | 0.167 | <0.000468 | 82 | 30-130 | | | |
| Anthracene | 0.114 | 0.00067 | " | 0.167 | <0.000334 | 68.2 | 30-130 | | | |
| Pyrene | 0.113 | 0.00067 | " | 0.167 | <0.000643 | 67.6 | 30-130 | | | |
| 2-Methylnaphthalene | 0.105 | 0.00201 | " | 0.167 | <0.00194 | 62.8 | 30-130 | | | |
| Benzo(b)fluoranthene | 0.114 | 0.00067 | " | 0.167 | <0.000585 | 68.2 | 30-130 | | | |
| Benzo(a)anthracene | 0.115 | 0.00067 | " | 0.167 | <0.000493 | 68.8 | 30-130 | | | |
| Surrogate: Nitrobenzene-d5 | 50.1 | | " | 0.333 | 142 | 50.1 | 29-110 | | | |
| Surrogate: 4-Terphenyl-d14 | 60.6 | | " | 0.333 | 205 | 60.6 | 33-122 | | | |
| Surrogate: 2-Fluorobiphenyl | 59.1 | | " | 0.333 | 181 | 59.1 | 33-115 | | | |

| LCS (LCS-L648698) | Prepared: 11/14/2022 Analyzed: 11/14/2022 | | | | | | | | | |
|--------------------------|--|---------|-------|-------|--|------|--------|--|--|--|
| Chrysene | 0.106 | 0.00067 | mg/Kg | 0.167 | | 63.4 | 30-130 | | | |
| Dibenz(a,h)anthracene | 0.119 | 0.00067 | " | 0.167 | | 71.2 | 30-130 | | | |
| Fluoranthene | 0.118 | 0.00067 | " | 0.167 | | 70.6 | 30-130 | | | |
| Fluorene | 0.107 | 0.00067 | " | 0.167 | | 64 | 30-130 | | | |
| Indeno(1,2,3-cd)pyrene | 0.116 | 0.00067 | " | 0.167 | | 69.4 | 30-130 | | | |
| Naphthalene | 0.0939 | 0.00201 | " | 0.167 | | 56.2 | 30-130 | | | |
| Benzo(k)fluoranthene | 0.111 | 0.00067 | " | 0.167 | | 66.4 | 30-130 | | | |
| Pyrene | 0.115 | 0.00067 | " | 0.167 | | 68.8 | 30-130 | | | |
| Benzo(a)pyrene | 0.123 | 0.00067 | " | 0.167 | | 73.6 | 30-130 | | | |
| Benzo(a)anthracene | 0.108 | 0.00067 | " | 0.167 | | 64.6 | 30-130 | | | |
| Anthracene | 0.11 | 0.00067 | " | 0.167 | | 65.8 | 30-130 | | | |
| Acenaphthene | 0.0971 | 0.00067 | " | 0.167 | | 58.1 | 30-130 | | | |
| 2-Methylnaphthalene | 0.0956 | 0.00201 | " | 0.167 | | 57.2 | 30-130 | | | |
| 1-Methylnaphthalene | 0.0956 | 0.00201 | " | 0.167 | | 57.2 | 30-130 | | | |

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Guttersen D10-29

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

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

Batch L648698 - 3550B

LCS (LCS-L648698)

Prepared: 11/14/2022 Analyzed: 11/14/2022

| | | | | | | | | | | |
|-----------------------------|-------|---------|-------|-------|------|--------|--|--|--|--|
| Benzo(b)fluoranthene | 0.107 | 0.00067 | mg/Kg | 0.167 | 64 | 30-130 | | | | |
| Surrogate: Nitrobenzene-d5 | 46.8 | | " | 0.333 | 46.8 | 29-110 | | | | |
| Surrogate: 4-Terphenyl-d14 | 67.2 | | " | 0.333 | 67.2 | 33-122 | | | | |
| Surrogate: 2-Fluorobiphenyl | 57.6 | | " | 0.333 | 57.6 | 33-115 | | | | |

LRB (LRB-L648698)

Prepared: 11/14/2022 Analyzed: 11/14/2022

| | | | | | | | | | | |
|-----------------------------|------|---------|-------|-------|------|--------|--|--|--|--|
| Chrysene | ND | 0.00067 | mg/Kg | | | - | | | | |
| Dibenz(a,h)anthracene | ND | 0.00067 | " | | | - | | | | |
| Fluoranthene | ND | 0.00067 | " | | | - | | | | |
| Fluorene | ND | 0.00067 | " | | | - | | | | |
| Benzo(k)fluoranthene | ND | 0.00067 | " | | | - | | | | |
| Naphthalene | ND | 0.00201 | " | | | - | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.00067 | " | | | - | | | | |
| Benzo(b)fluoranthene | ND | 0.00067 | " | | | - | | | | |
| Benzo(a)pyrene | ND | 0.00067 | " | | | - | | | | |
| Benzo(a)anthracene | ND | 0.00067 | " | | | - | | | | |
| Acenaphthene | ND | 0.00067 | " | | | - | | | | |
| 2-Methylnaphthalene | ND | 0.00201 | " | | | - | | | | |
| 1-Methylnaphthalene | ND | 0.00201 | " | | | - | | | | |
| Pyrene | ND | 0.00067 | " | | | - | | | | |
| Anthracene | ND | 0.00067 | " | | | - | | | | |
| Surrogate: Nitrobenzene-d5 | 51.6 | | " | 0.333 | 51.6 | 29-110 | | | | |
| Surrogate: 4-Terphenyl-d14 | 63.3 | | " | 0.333 | 63.3 | 33-122 | | | | |
| Surrogate: 2-Fluorobiphenyl | 58.5 | | " | 0.333 | 58.5 | 33-115 | | | | |

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jake Whritenour
Project Number: [none]
Project: Noble - Guttersen D10-29

Notes and Definitions

U Sample is Non-Detect.

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

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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