

TABLE 1
FORMER HALL 42-33 WELLHEAD AND TANK BATTERY
SOIL ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS

| Sample ID | Date Sampled | Depth | 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 ⁽⁴⁾ (mg/kg) |
|---|--------------|-----------|-----------------|-----------------|----------------------|-----------------------|---------------------|---------------------|---------------------|----------------------------|
| Residential SSL ^(1,2) | | | 1.2 | 490 | 5.8 | 58 | 30 | 27 | 2 | 500 |
| Protection of Groundwater SSL ^(1,2,3) | | | 0.0026 | 0.69 | 0.78 | 9.9 | 0.0081 | 0.0087 | 0.0038 | 500 |
| PWV-01-B @ 2' | 3/28/2024 | 2 ft. bgs | <0.0020 | <0.00050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | 7.1 |
| WH01 @ 6' | 3/28/2024 | 6 ft. bgs | <0.0020 | <0.00050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | 0.78 |
| FL01-01 @ 6' | 3/28/2024 | 6 ft. bgs | <0.0020 | <0.00050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |

Notes:

1. Compounds referenced from the ECMC 2 CCR 404-1, Table 915-1, effective January 15, 2021.
2. Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
3. SSLs are applicable if a pathway for communication with groundwater is present.
4. Value calculated by adding TPH-GRO, TPH-DRO, and TPH-ORO concentrations.

ECMC = Colorado Energy & Carbon Management Commission

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

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

TMB = Trimethylbenzene

ft. = feet

bgs = Below ground surface

TABLE 2
FORMER HALL 42-33 WELLHEAD AND TANK BATTERY
GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS

| Sample ID | Date Sampled | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | Naphthalene (µg/L) | 1,2,4-TMB (µg/L) | 1,3,5-TMB (µg/L) | Depth to Water ⁽²⁾ (ft.) | Groundwater Elevation (ft. AMSL) |
|---|--------------|----------------|----------------|---------------------|----------------------|--------------------|------------------|------------------|-------------------------------------|----------------------------------|
| COGCC Table 915-1 Groundwater Standard (µg/L) ⁽¹⁾ | | 5 | 560 | 700 | 1,400 | 140 | 67 | 67 | - | - |
| GW01 | 3/28/2024 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 2 | NA |
| GW02 | 3/28/2024 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 6 | NA |
| GW03 | 3/28/2024 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 6 | NA |

Notes:

1. Groundwater standards referenced from ECMC 2 CCR 404-1, Table 915-1, January 15, 2021.

2. Depth to water measurements were measured from ground surface for excavation samples. Monitoring well measurements were collected from top of casing and adjusted using survey data to reflect depth of water from ground surface.

TMB = Trimethylbenzene

ECMC = Energy & Carbon Management Commission

µg/L = Micrograms per liter

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

ft. = Feet

AMSL = Above Mean Sea Level

NA = Not applicable

TABLE 3
FORMER HALL 42-33 WELLHEAD AND TANK BATTERY
FIELD DATA SUMMARY TABLE

| Sample ID | Date Sampled | Depth | GPS Data ⁽¹⁾ | | PDOP Value | VOC Concentration ⁽²⁾ (ppm) |
|--------------|--------------|-----------|-------------------------|-------------|------------|---|
| | | | Latitude | Longitude | | |
| PWV01-B @ 2' | 3/28/2024 | 2 ft. bgs | 40.533053 | -104.776211 | NC | 6.8 |
| GW01 | 3/28/2024 | 2 ft. bgs | 40.533053 | -104.776211 | NC | NA |
| WH01 @ 6' | 3/28/2024 | 6 ft. bgs | 40.533077 | -104.776590 | NC | 1.1 |
| GW02 | 3/28/2024 | 6 ft. bgs | 40.533077 | -104.776590 | NC | NA |
| FL01-01 @ 6' | 3/28/2024 | 6 ft. bgs | 40.533198 | -104.776458 | NC | 1.0 |
| GW03 | 3/28/2024 | 6 ft. bgs | 40.533198 | -104.776458 | NC | NA |

Notes:

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum 1983 (NAD83) UTM Zone 13 North.
 2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).
- ppm = Parts per million
ft. = Feet
ft. = Feet
bgs = Below ground surface
NC = Data not collected
NA = Not applicable

Attachment A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 08, 2024

Karen Olson

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: PDC - Hall 42-33

Work Order #2403459

Enclosed are the results of analyses for samples received by Summit Scientific on 03/28/24 17:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury

President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| PWV01-B@2' | 2403459-01 | Soil | 03/28/24 12:04 | 03/28/24 17:55 |
| WH01@6' | 2403459-04 | Soil | 03/28/24 12:23 | 03/28/24 17:55 |
| FL01-01@6' | 2403459-07 | Soil | 03/28/24 13:50 | 03/28/24 17:55 |

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

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID 2403459 Page 1 of 1

| | | | | | |
|---|--|--|--|--------------------------------------|--|
| Client: PDC / Tasman | | Send Data To: Project Manager: Karen Olson | | Send Invoice To: Company: PDC Energy | |
| Address: 6855 W 119th Ave | | E-Mail: karen.olson@chevron.com | | Project Name/Location: | |
| City/State/Zip: Broomfield / CO / 80020 | | Project Name: <u>Hall 42-33</u> | | AFE#: | |
| Phone: 303-487-1228 | | Project Number: | | PO/Billing Codes: | |
| Sampler Name: <u>Shannon Walrus</u> | | Contact: Karen Olson | | | |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | | Analysis Requested | | | | Special Instructions | | | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|---------------|-------------------|--------------|----------------------|------------|---------|---------|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | BTEXN - 8260B | 1,2,4 & 1,3,5-TMB | TDS, Cl, SO4 | | MCDAIS-CIS | PAH-CIS | SALECPH |
| 1 | PW01-BWZ | 3/28/24 | 1204 | 2 | | | X | | | X | | | | | X | X | X | X | |
| 2 | PW01-WW1 | | 1214 | 1 | | | | | | | | | | | | | | | |
| 3 | F/R01@4' | | 1219 | 1 | | | | | | | | | | | | | | | |
| 4 | WH01@6' | | 1223 | 1 | | | | | | | | | | | | | | | |
| 5 | SEP01-FI@4' | | 1344 | 1 | | | | | | | | | | | | | | | |
| 6 | WHS01-E@6' | | 1235 | 1 | | | | | | | | | | | | | | | |
| 7 | FLO1@6' | | 1350 | 1 | | | | | | | | | | | | | | | |
| 8 | SEP01-DL@4' | | 1427 | 1 | | | | | | | | | | | | | | | |
| 9 | BHG01@4' | | 1437 | 1 | | | | | | | | | | | | | | | |
| 10 | BHG01@6' | | 1439 | 1 | | | | | | | | | | | | | | | |
| 11 | BHG02@4' | | 1459 | 1 | | | | | | | | | | | | | | | |
| 12 | BHG02@6' | | 1504 | 1 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--|---------------------------------|------------------------------------|--------------------------------|-------------------|---|--------|
| Relinquished by: <u>Shannon Walrus</u> | Date/Time: <u>3/28/24 1730</u> | Received by: <u>Tasman Lockbox</u> | Date/Time: <u>3/28/24 1730</u> | TAT Business Days | Field DO | Notes: |
| | | | | Same Day | Field EC | |
| Relinquished by: <u>Tasman Lockbox</u> | Date/Time: <u>3/28/24 1730</u> | Received by: <u>RELL</u> | Date/Time: <u>3/28/24 1730</u> | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| | | | | Standard | <input checked="" type="checkbox"/> Field Turb. | |
| Temperature Upon Receipt: <u>8.56</u> | Corrected Temperature: <u>0</u> | IR gun #: | HNO3 lot #: | | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2403459

Client: Dr. Tasman Client Project ID: Plat 42-33

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #:

Matrix (Check all that apply) Air Soil Solid Water Other

Temp (°C) 8.8 Thermometer # 1

| | Yes | No | N/A | Comments (if any) |
|--|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------|
| If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If custody seals are present, are they intact? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>only one</u> |
| Are samples due within 48 hours present? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input 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"/> | |
| Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 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"/> | |
| 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 type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>names didn't match</u> |
| 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⁾ Note the type of preservative in the comments column - HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 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.

AS
Custodian Printed Name
3/28/24
Date/Time

14.5



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

PWV01-B@2'
2403459-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 12:04**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|------------|-------------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BHC1092 | 03/29/24 | 03/30/24 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | 7.1 | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **03/28/24 12:04**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0360 | 89.9 % | | 50-150 | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 0.0411 | 103 % | | 50-150 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0535 | 134 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 12:04**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BHC1094 | 03/29/24 | 03/30/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **03/28/24 12:04**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| <i>Surrogate: o-Terphenyl</i> | 8.05 | 64.4 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

PWV01-B@2'
2403459-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHC1100 | 03/31/24 | 04/02/24 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **03/28/24 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0161 | 48.4 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0157 | 47.2 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHD0132 | 04/04/24 | 04/06/24 | EPA 6020B | |

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/28/24 12:04**

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

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

PWV01-B@2'
2403459-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 21.4 | 0.0500 | mg/L dry | 1 | BHC1088 | 03/29/24 | 04/01/24 | EPA 6020B | |
| Magnesium | 9.47 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 9.01 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **03/28/24 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.408 | 0.00100 | units | 1 | BHD0083 | 04/03/24 | 04/03/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 84.9 | | % | 1 | BHD0051 | 04/02/24 | 04/03/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.299 | 0.0100 | mmhos/cm | 1 | BHC1089 | 03/29/24 | 04/01/24 | EPA 120.1 | |

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/28/24 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.80 | | pH Units | 1 | BHC1090 | 03/29/24 | 04/01/24 | EPA 9045D | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

WH01@6'
2403459-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 12:23**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|-------------|-------------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BHC1092 | 03/29/24 | 03/30/24 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | 0.78 | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **03/28/24 12:23**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0393 | 98.2 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0423 | 106 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0383 | 95.8 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 12:23**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BHC1094 | 03/29/24 | 03/30/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **03/28/24 12:23**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 6.92 | 55.4 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

WH01@6'
2403459-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 12:23**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------|----------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHC1100 | 03/31/24 | 04/02/24 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | 0.00662 | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | 0.0141 | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **03/28/24 12:23**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0148 | 44.4 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0166 | 49.8 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 12:23**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHD0132 | 04/04/24 | 04/06/24 | EPA 6020B | |

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/28/24 12:23**

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

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

WH01@6'
2403459-04 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 41.5 | 0.0500 | mg/L dry | 1 | BHC1088 | 03/29/24 | 04/01/24 | EPA 6020B | |
| Magnesium | 22.8 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 22.9 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **03/28/24 12:23**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.709 | 0.00100 | units | 1 | BHD0083 | 04/03/24 | 04/03/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 12:23**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 79.8 | | % | 1 | BHD0051 | 04/02/24 | 04/03/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 12:23**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.548 | 0.0100 | mmhos/cm | 1 | BHC1089 | 03/29/24 | 04/01/24 | EPA 120.1 | |

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/28/24 12:23**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.83 | | pH Units | 1 | BHC1090 | 03/29/24 | 04/01/24 | EPA 9045D | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

FL01-01@6'
2403459-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 13:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BHC1092 | 03/29/24 | 03/30/24 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **03/28/24 13:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0332 | 83.0 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0448 | 112 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0389 | 97.3 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 13:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BHC1094 | 03/29/24 | 03/30/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **03/28/24 13:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 7.85 | 62.8 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

FL01-01@6'
2403459-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHC1100 | 03/31/24 | 04/02/24 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **03/28/24 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0216 | 64.7 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0234 | 70.3 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHD0132 | 04/04/24 | 04/06/24 | EPA 6020B | |

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/28/24 13:50**

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

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

FL01-01@6'
2403459-07 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 42.7 | 0.0500 | mg/L dry | 1 | BHC1088 | 03/29/24 | 04/01/24 | EPA 6020B | |
| Magnesium | 20.9 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 22.7 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **03/28/24 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.712 | 0.00100 | units | 1 | BHD0083 | 04/03/24 | 04/03/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 79.8 | | % | 1 | BHD0051 | 04/02/24 | 04/03/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.628 | 0.0100 | mmhos/cm | 1 | BHC1089 | 03/29/24 | 04/01/24 | EPA 120.1 | |

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/28/24 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.10 | | pH Units | 1 | BHC1090 | 03/29/24 | 04/01/24 | EPA 9045D | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

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 BHC1092 - EPA 5030 Soil MS

Blank (BHC1092-BLK1)

Prepared: 03/29/24 Analyzed: 03/30/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0307 | | " | 0.0400 | | 76.6 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0442 | | " | 0.0400 | | 110 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0379 | | " | 0.0400 | | 94.8 | 50-150 | | | |

LCS (BHC1092-BS1)

Prepared: 03/29/24 Analyzed: 03/30/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.0918 | 0.0020 | mg/kg | 0.100 | | 91.8 | 70-130 | | | |
| Toluene | 0.0914 | 0.0050 | " | 0.100 | | 91.4 | 70-130 | | | |
| Ethylbenzene | 0.106 | 0.0050 | " | 0.100 | | 106 | 70-130 | | | |
| m,p-Xylene | 0.212 | 0.010 | " | 0.200 | | 106 | 70-130 | | | |
| o-Xylene | 0.100 | 0.0050 | " | 0.100 | | 100 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0994 | 0.0050 | " | 0.100 | | 99.4 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.101 | 0.0050 | " | 0.100 | | 101 | 70-130 | | | |
| Naphthalene | 0.0818 | 0.0038 | " | 0.100 | | 81.8 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0291 | | " | 0.0400 | | 72.8 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0408 | | " | 0.0400 | | 102 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0379 | | " | 0.0400 | | 94.7 | 50-150 | | | |

Matrix Spike (BHC1092-MS1)

Source: 2403459-01

Prepared: 03/29/24 Analyzed: 03/30/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|----|------|--------|--|--|-------|
| Benzene | 0.0872 | 0.0020 | mg/kg | 0.100 | ND | 87.2 | 70-130 | | | |
| Toluene | 0.0873 | 0.0050 | " | 0.100 | ND | 87.3 | 70-130 | | | |
| Ethylbenzene | 0.0985 | 0.0050 | " | 0.100 | ND | 98.5 | 70-130 | | | |
| m,p-Xylene | 0.195 | 0.010 | " | 0.200 | ND | 97.4 | 70-130 | | | |
| o-Xylene | 0.0947 | 0.0050 | " | 0.100 | ND | 94.7 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0865 | 0.0050 | " | 0.100 | ND | 86.5 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0926 | 0.0050 | " | 0.100 | ND | 92.6 | 70-130 | | | |
| Naphthalene | 0.0531 | 0.0038 | " | 0.100 | ND | 53.1 | 70-130 | | | QM-07 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0313 | | " | 0.0400 | | 78.2 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0406 | | " | 0.0400 | | 101 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0374 | | " | 0.0400 | | 93.4 | 50-150 | | | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

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 BHC1092 - EPA 5030 Soil MS

| Matrix Spike Dup (BHC1092-MSD1) | Source: 2403459-01 | | | Prepared: 03/29/24 Analyzed: 03/30/24 | | | | | | |
|---|---------------------------|--------|----------|--|----|-------------|---------------|-------|----|-------|
| Benzene | 0.0910 | 0.0020 | mg/kg | 0.100 | ND | 91.0 | 70-130 | 4.34 | 30 | |
| Toluene | 0.0888 | 0.0050 | " | 0.100 | ND | 88.8 | 70-130 | 1.67 | 30 | |
| Ethylbenzene | 0.0985 | 0.0050 | " | 0.100 | ND | 98.5 | 70-130 | 0.00 | 30 | |
| m,p-Xylene | 0.196 | 0.010 | " | 0.200 | ND | 98.2 | 70-130 | 0.874 | 30 | |
| o-Xylene | 0.0933 | 0.0050 | " | 0.100 | ND | 93.3 | 70-130 | 1.44 | 30 | |
| 1,2,4-Trimethylbenzene | 0.0875 | 0.0050 | " | 0.100 | ND | 87.5 | 70-130 | 1.24 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0944 | 0.0050 | " | 0.100 | ND | 94.4 | 70-130 | 1.89 | 30 | |
| Naphthalene | 0.0551 | 0.0038 | " | 0.100 | ND | 55.1 | 70-130 | 3.77 | 30 | QM-07 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0323</i> | | <i>"</i> | <i>0.0400</i> | | <i>80.8</i> | <i>50-150</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0401</i> | | <i>"</i> | <i>0.0400</i> | | <i>100</i> | <i>50-150</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0365</i> | | <i>"</i> | <i>0.0400</i> | | <i>91.2</i> | <i>50-150</i> | | | |

Batch BHD0014 - EPA 5030 Soil MS

| Blank (BHD0014-BLK1) | Prepared: 04/01/24 Analyzed: 04/03/24 | | | | | | | | | |
|---|--|--------|----------|---------------|--|-------------|---------------|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0394</i> | | <i>"</i> | <i>0.0400</i> | | <i>98.4</i> | <i>50-150</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0398</i> | | <i>"</i> | <i>0.0400</i> | | <i>99.4</i> | <i>50-150</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0399</i> | | <i>"</i> | <i>0.0400</i> | | <i>99.8</i> | <i>50-150</i> | | | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

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 BHD0014 - EPA 5030 Soil MS

LCS (BHD0014-BS1)

Prepared: 04/01/24 Analyzed: 04/03/24

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.108 | 0.0020 | mg/kg | 0.100 | | 108 | 70-130 | | | |
| Toluene | 0.102 | 0.0050 | " | 0.100 | | 102 | 70-130 | | | |
| Ethylbenzene | 0.109 | 0.0050 | " | 0.100 | | 109 | 70-130 | | | |
| m,p-Xylene | 0.216 | 0.010 | " | 0.200 | | 108 | 70-130 | | | |
| o-Xylene | 0.103 | 0.0050 | " | 0.100 | | 103 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0988 | 0.0050 | " | 0.100 | | 98.8 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.101 | 0.0050 | " | 0.100 | | 101 | 70-130 | | | |
| Naphthalene | 0.0854 | 0.0038 | " | 0.100 | | 85.4 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0406 | | " | 0.0400 | | 101 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0400 | | " | 0.0400 | | 100 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0380 | | " | 0.0400 | | 94.9 | 50-150 | | | |

Matrix Spike (BHD0014-MS1)

Source: 2403450-01

Prepared: 04/01/24 Analyzed: 04/03/24

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|-------|
| Benzene | 0.0985 | 0.0020 | mg/kg | 0.100 | ND | 98.5 | 70-130 | | | |
| Toluene | 0.0861 | 0.0050 | " | 0.100 | ND | 86.1 | 70-130 | | | |
| Ethylbenzene | 0.0931 | 0.0050 | " | 0.100 | ND | 93.1 | 70-130 | | | |
| m,p-Xylene | 0.176 | 0.010 | " | 0.200 | ND | 88.2 | 70-130 | | | |
| o-Xylene | 0.0922 | 0.0050 | " | 0.100 | ND | 92.2 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0788 | 0.0050 | " | 0.100 | ND | 78.8 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0819 | 0.0050 | " | 0.100 | ND | 81.9 | 70-130 | | | |
| Naphthalene | 0.0652 | 0.0038 | " | 0.100 | ND | 65.2 | 70-130 | | | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0402 | | " | 0.0400 | | 100 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0408 | | " | 0.0400 | | 102 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0400 | | " | 0.0400 | | 100 | 50-150 | | | |

Matrix Spike Dup (BHD0014-MSD1)

Source: 2403450-01

Prepared: 04/01/24 Analyzed: 04/03/24

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|------|----|-------|
| Benzene | 0.101 | 0.0020 | mg/kg | 0.100 | ND | 101 | 70-130 | 2.82 | 30 | |
| Toluene | 0.0883 | 0.0050 | " | 0.100 | ND | 88.3 | 70-130 | 2.58 | 30 | |
| Ethylbenzene | 0.0974 | 0.0050 | " | 0.100 | ND | 97.4 | 70-130 | 4.60 | 30 | |
| m,p-Xylene | 0.188 | 0.010 | " | 0.200 | ND | 93.8 | 70-130 | 6.11 | 30 | |
| o-Xylene | 0.0952 | 0.0050 | " | 0.100 | ND | 95.2 | 70-130 | 3.27 | 30 | |
| 1,2,4-Trimethylbenzene | 0.0867 | 0.0050 | " | 0.100 | ND | 86.7 | 70-130 | 9.54 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0892 | 0.0050 | " | 0.100 | ND | 89.2 | 70-130 | 8.52 | 30 | |
| Naphthalene | 0.0668 | 0.0038 | " | 0.100 | ND | 66.8 | 70-130 | 2.41 | 30 | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0399 | | " | 0.0400 | | 99.8 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0398 | | " | 0.0400 | | 99.4 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0407 | | " | 0.0400 | | 102 | 50-150 | | | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

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 BHC1094 - EPA 3550A

Blank (BHC1094-BLK1)

Prepared: 03/29/24 Analyzed: 03/30/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 11.8 | | " | 12.5 | | 94.1 | 30-150 | | | | |

LCS (BHC1094-BS1)

Prepared: 03/29/24 Analyzed: 03/30/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|--|
| C10-C28 (DRO) | 419 | 50 | mg/kg | 500 | | 83.7 | 70-130 | | | | |
| Surrogate: <i>o</i> -Terphenyl | 11.0 | | " | 12.5 | | 87.9 | 30-150 | | | | |

Matrix Spike (BHC1094-MS1)

Source: 2403459-01

Prepared: 03/29/24 Analyzed: 03/30/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--------|--|--|--|--|
| C10-C28 (DRO) | 481 | 50 | mg/kg | 500 | 13.9 | 93.4 | 70-130 | | | | |
| Surrogate: <i>o</i> -Terphenyl | 6.18 | | " | 12.5 | | 49.5 | 30-150 | | | | |

Matrix Spike Dup (BHC1094-MSD1)

Source: 2403459-01

Prepared: 03/29/24 Analyzed: 03/30/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--------|------|----|--|--|
| C10-C28 (DRO) | 418 | 50 | mg/kg | 500 | 13.9 | 80.8 | 70-130 | 14.0 | 20 | | |
| Surrogate: <i>o</i> -Terphenyl | 7.58 | | " | 12.5 | | 60.7 | 30-150 | | | | |

Batch BHD0012 - EPA 3550A

Blank (BHD0012-BLK1)

Prepared: 04/01/24 Analyzed: 04/02/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|-----|--------|--|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 14.9 | | " | 12.5 | | 120 | 30-150 | | | | |

LCS (BHD0012-BS1)

Prepared: 04/01/24 Analyzed: 04/02/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|-----|--------|--|--|--|--|
| C10-C28 (DRO) | 641 | 50 | mg/kg | 500 | | 128 | 70-130 | | | | |
| Surrogate: <i>o</i> -Terphenyl | 13.4 | | " | 12.5 | | 107 | 30-150 | | | | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHD0012 - EPA 3550A

Matrix Spike (BHD0012-MS1)

Source: 2403450-01

Prepared: 04/01/24 Analyzed: 04/02/24

| | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--------|--|--|--|
| C10-C28 (DRO) | 628 | 50 | mg/kg | 500 | 30.5 | 119 | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 8.60 | | " | 12.5 | | 68.8 | 30-150 | | | |

Matrix Spike Dup (BHD0012-MSD1)

Source: 2403450-01

Prepared: 04/01/24 Analyzed: 04/02/24

| | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--------|------|----|--|
| C10-C28 (DRO) | 569 | 50 | mg/kg | 500 | 30.5 | 108 | 70-130 | 9.74 | 20 | |
| Surrogate: <i>o</i> -Terphenyl | 9.18 | | " | 12.5 | | 73.4 | 30-150 | | | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC1100 - EPA 5030 Soil MS

Blank (BHC1100-BLK1)

Prepared: 03/31/24 Analyzed: 04/01/24

| | | | | | | | | | | |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0293 | | " | 0.0333 | | 88.0 | 40-150 | | | |
| <i>Surrogate: Fluoranthene-d10</i> | 0.0307 | | " | 0.0333 | | 92.2 | 40-150 | | | |

LCS (BHC1100-BS1)

Prepared: 03/31/24 Analyzed: 04/01/24

| | | | | | | | | | | |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | 0.0302 | 0.00500 | mg/kg | 0.0333 | | 90.5 | 31-137 | | | |
| Anthracene | 0.0312 | 0.00500 | " | 0.0333 | | 93.7 | 30-120 | | | |
| Benzo (a) anthracene | 0.0303 | 0.00500 | " | 0.0333 | | 90.8 | 30-120 | | | |
| Benzo (a) pyrene | 0.0259 | 0.00500 | " | 0.0333 | | 77.7 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0274 | 0.00500 | " | 0.0333 | | 82.3 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0284 | 0.00500 | " | 0.0333 | | 85.1 | 30-120 | | | |
| Chrysene | 0.0307 | 0.00500 | " | 0.0333 | | 92.1 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0270 | 0.00500 | " | 0.0333 | | 81.0 | 30-120 | | | |
| Fluoranthene | 0.0301 | 0.00500 | " | 0.0333 | | 90.3 | 30-120 | | | |
| Fluorene | 0.0231 | 0.00500 | " | 0.0333 | | 69.2 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0217 | 0.00500 | " | 0.0333 | | 65.2 | 30-120 | | | |
| Pyrene | 0.0327 | 0.00500 | " | 0.0333 | | 98.2 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0280 | 0.00500 | " | 0.0333 | | 83.9 | 35-142 | | | |
| 2-Methylnaphthalene | 0.0368 | 0.00500 | " | 0.0333 | | 110 | 35-142 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0325 | | " | 0.0333 | | 97.6 | 40-150 | | | |
| <i>Surrogate: Fluoranthene-d10</i> | 0.0300 | | " | 0.0333 | | 89.9 | 40-150 | | | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC1100 - EPA 5030 Soil MS

| Matrix Spike (BHC1100-MS1) | Source: 2403401-01 | | | Prepared: 03/31/24 Analyzed: 04/01/24 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|
| Acenaphthene | 0.0167 | 0.00500 | mg/kg | 0.0333 | ND | 50.1 | 31-137 | | | |
| Anthracene | 0.0180 | 0.00500 | " | 0.0333 | ND | 54.0 | 30-120 | | | |
| Benzo (a) anthracene | 0.0175 | 0.00500 | " | 0.0333 | ND | 52.6 | 30-120 | | | |
| Benzo (a) pyrene | 0.0139 | 0.00500 | " | 0.0333 | ND | 41.8 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0132 | 0.00500 | " | 0.0333 | ND | 39.5 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0136 | 0.00500 | " | 0.0333 | ND | 40.7 | 30-120 | | | |
| Chrysene | 0.0167 | 0.00500 | " | 0.0333 | ND | 50.0 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0213 | 0.00500 | " | 0.0333 | ND | 63.9 | 30-120 | | | |
| Fluoranthene | 0.0179 | 0.00500 | " | 0.0333 | ND | 53.6 | 30-120 | | | |
| Fluorene | 0.0174 | 0.00500 | " | 0.0333 | ND | 52.1 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0169 | 0.00500 | " | 0.0333 | ND | 50.7 | 30-120 | | | |
| Pyrene | 0.0180 | 0.00500 | " | 0.0333 | ND | 54.0 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0187 | 0.00500 | " | 0.0333 | ND | 56.1 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0212 | 0.00500 | " | 0.0333 | ND | 63.6 | 15-130 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0159</i> | | <i>"</i> | <i>0.0333</i> | | <i>47.7</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0191</i> | | <i>"</i> | <i>0.0333</i> | | <i>57.2</i> | <i>40-150</i> | | | |

| Matrix Spike Dup (BHC1100-MSD1) | Source: 2403401-01 | | | Prepared: 03/31/24 Analyzed: 04/01/24 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|------|----|--|
| Acenaphthene | 0.0174 | 0.00500 | mg/kg | 0.0333 | ND | 52.2 | 31-137 | 4.21 | 30 | |
| Anthracene | 0.0176 | 0.00500 | " | 0.0333 | ND | 52.7 | 30-120 | 2.48 | 30 | |
| Benzo (a) anthracene | 0.0153 | 0.00500 | " | 0.0333 | ND | 45.9 | 30-120 | 13.7 | 30 | |
| Benzo (a) pyrene | 0.0108 | 0.00500 | " | 0.0333 | ND | 32.5 | 30-120 | 24.9 | 30 | |
| Benzo (b) fluoranthene | 0.0104 | 0.00500 | " | 0.0333 | ND | 31.1 | 30-120 | 23.9 | 30 | |
| Benzo (k) fluoranthene | 0.0105 | 0.00500 | " | 0.0333 | ND | 31.4 | 30-120 | 25.9 | 30 | |
| Chrysene | 0.0150 | 0.00500 | " | 0.0333 | ND | 44.9 | 30-120 | 10.8 | 30 | |
| Dibenz (a,h) anthracene | 0.0194 | 0.00500 | " | 0.0333 | ND | 58.2 | 30-120 | 9.32 | 30 | |
| Fluoranthene | 0.0173 | 0.00500 | " | 0.0333 | ND | 51.8 | 30-120 | 3.43 | 30 | |
| Fluorene | 0.0153 | 0.00500 | " | 0.0333 | ND | 45.9 | 30-120 | 12.7 | 30 | |
| Indeno (1,2,3-cd) pyrene | 0.0153 | 0.00500 | " | 0.0333 | ND | 45.9 | 30-120 | 9.83 | 30 | |
| Pyrene | 0.0160 | 0.00500 | " | 0.0333 | ND | 47.9 | 35-142 | 12.1 | 30 | |
| 1-Methylnaphthalene | 0.0179 | 0.00500 | " | 0.0333 | ND | 53.8 | 15-130 | 4.02 | 50 | |
| 2-Methylnaphthalene | 0.0204 | 0.00500 | " | 0.0333 | ND | 61.1 | 15-130 | 3.96 | 50 | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0150</i> | | <i>"</i> | <i>0.0333</i> | | <i>44.9</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0182</i> | | <i>"</i> | <i>0.0333</i> | | <i>54.6</i> | <i>40-150</i> | | | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0053 - EPA 5030 Soil MS

Blank (BHD0053-BLK1)

Prepared: 04/02/24 Analyzed: 04/03/24

| | | | | | | | | | | |
|---|---------------|---------|-------|---------------|--|-------------|--|---------------|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0342</i> | | " | <i>0.0333</i> | | <i>103</i> | | <i>40-150</i> | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0228</i> | | " | <i>0.0333</i> | | <i>68.4</i> | | <i>40-150</i> | | |

LCS (BHD0053-BS1)

Prepared: 04/02/24 Analyzed: 04/03/24

| | | | | | | | | | | |
|---|---------------|---------|-------|---------------|--|-------------|--|---------------|--|--|
| Acenaphthene | 0.0275 | 0.00500 | mg/kg | 0.0333 | | 82.5 | | 31-137 | | |
| Anthracene | 0.0278 | 0.00500 | " | 0.0333 | | 83.4 | | 30-120 | | |
| Benzo (a) anthracene | 0.0202 | 0.00500 | " | 0.0333 | | 60.5 | | 30-120 | | |
| Benzo (a) pyrene | 0.0225 | 0.00500 | " | 0.0333 | | 67.5 | | 30-120 | | |
| Benzo (b) fluoranthene | 0.0191 | 0.00500 | " | 0.0333 | | 57.4 | | 30-120 | | |
| Benzo (k) fluoranthene | 0.0233 | 0.00500 | " | 0.0333 | | 70.0 | | 30-120 | | |
| Chrysene | 0.0272 | 0.00500 | " | 0.0333 | | 81.7 | | 30-120 | | |
| Dibenz (a,h) anthracene | 0.0278 | 0.00500 | " | 0.0333 | | 83.4 | | 30-120 | | |
| Fluoranthene | 0.0243 | 0.00500 | " | 0.0333 | | 73.0 | | 30-120 | | |
| Fluorene | 0.0267 | 0.00500 | " | 0.0333 | | 80.1 | | 30-120 | | |
| Indeno (1,2,3-cd) pyrene | 0.0271 | 0.00500 | " | 0.0333 | | 81.2 | | 30-120 | | |
| Pyrene | 0.0346 | 0.00500 | " | 0.0333 | | 104 | | 35-142 | | |
| 1-Methylnaphthalene | 0.0298 | 0.00500 | " | 0.0333 | | 89.3 | | 35-142 | | |
| 2-Methylnaphthalene | 0.0314 | 0.00500 | " | 0.0333 | | 94.1 | | 35-142 | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0365</i> | | " | <i>0.0333</i> | | <i>109</i> | | <i>40-150</i> | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0252</i> | | " | <i>0.0333</i> | | <i>75.7</i> | | <i>40-150</i> | | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0053 - EPA 5030 Soil MS

| Matrix Spike (BHD0053-MS1) | Source: 2403438-01 | | | Prepared: 04/02/24 Analyzed: 04/03/24 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|
| Acenaphthene | 0.0150 | 0.00500 | mg/kg | 0.0333 | ND | 45.1 | 31-137 | | | |
| Anthracene | 0.0149 | 0.00500 | " | 0.0333 | ND | 44.7 | 30-120 | | | |
| Benzo (a) anthracene | 0.0171 | 0.00500 | " | 0.0333 | ND | 51.3 | 30-120 | | | |
| Benzo (a) pyrene | 0.0181 | 0.00500 | " | 0.0333 | ND | 54.4 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0173 | 0.00500 | " | 0.0333 | ND | 51.9 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0181 | 0.00500 | " | 0.0333 | ND | 54.4 | 30-120 | | | |
| Chrysene | 0.0200 | 0.00500 | " | 0.0333 | ND | 60.1 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0171 | 0.00500 | " | 0.0333 | ND | 51.3 | 30-120 | | | |
| Fluoranthene | 0.0143 | 0.00500 | " | 0.0333 | ND | 42.9 | 30-120 | | | |
| Fluorene | 0.0152 | 0.00500 | " | 0.0333 | ND | 45.5 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0176 | 0.00500 | " | 0.0333 | ND | 52.8 | 30-120 | | | |
| Pyrene | 0.0240 | 0.00500 | " | 0.0333 | ND | 72.0 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0205 | 0.00500 | " | 0.0333 | ND | 61.5 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0208 | 0.00500 | " | 0.0333 | ND | 62.3 | 15-130 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0241</i> | | <i>"</i> | <i>0.0333</i> | | <i>72.3</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0147</i> | | <i>"</i> | <i>0.0333</i> | | <i>44.1</i> | <i>40-150</i> | | | |

| Matrix Spike Dup (BHD0053-MSD1) | Source: 2403438-01 | | | Prepared: 04/02/24 Analyzed: 04/03/24 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|------|----|--|
| Acenaphthene | 0.0168 | 0.00500 | mg/kg | 0.0333 | ND | 50.3 | 31-137 | 10.9 | 30 | |
| Anthracene | 0.0173 | 0.00500 | " | 0.0333 | ND | 51.9 | 30-120 | 14.7 | 30 | |
| Benzo (a) anthracene | 0.0152 | 0.00500 | " | 0.0333 | ND | 45.6 | 30-120 | 11.7 | 30 | |
| Benzo (a) pyrene | 0.0184 | 0.00500 | " | 0.0333 | ND | 55.2 | 30-120 | 1.57 | 30 | |
| Benzo (b) fluoranthene | 0.0139 | 0.00500 | " | 0.0333 | ND | 41.7 | 30-120 | 21.8 | 30 | |
| Benzo (k) fluoranthene | 0.0184 | 0.00500 | " | 0.0333 | ND | 55.2 | 30-120 | 1.54 | 30 | |
| Chrysene | 0.0168 | 0.00500 | " | 0.0333 | ND | 50.4 | 30-120 | 17.5 | 30 | |
| Dibenz (a,h) anthracene | 0.0143 | 0.00500 | " | 0.0333 | ND | 42.9 | 30-120 | 17.9 | 30 | |
| Fluoranthene | 0.0162 | 0.00500 | " | 0.0333 | ND | 48.5 | 30-120 | 12.2 | 30 | |
| Fluorene | 0.0169 | 0.00500 | " | 0.0333 | ND | 50.6 | 30-120 | 10.5 | 30 | |
| Indeno (1,2,3-cd) pyrene | 0.0169 | 0.00500 | " | 0.0333 | ND | 50.8 | 30-120 | 3.77 | 30 | |
| Pyrene | 0.0181 | 0.00500 | " | 0.0333 | ND | 54.4 | 35-142 | 27.8 | 30 | |
| 1-Methylnaphthalene | 0.0153 | 0.00500 | " | 0.0333 | ND | 45.9 | 15-130 | 29.0 | 50 | |
| 2-Methylnaphthalene | 0.0162 | 0.00500 | " | 0.0333 | ND | 48.5 | 15-130 | 25.0 | 50 | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0229</i> | | <i>"</i> | <i>0.0333</i> | | <i>68.7</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0170</i> | | <i>"</i> | <i>0.0333</i> | | <i>51.0</i> | <i>40-150</i> | | | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BHD0132 - EPA 3050B

Blank (BHD0132-BLK1)

Prepared: 04/04/24 Analyzed: 04/05/24

Boron ND 2.00 mg/L

LCS (BHD0132-BS1)

Prepared: 04/04/24 Analyzed: 04/05/24

Boron 4.41 2.00 mg/L 5.00 88.3 80-120

Duplicate (BHD0132-DUP1)

Source: 2403437-01

Prepared: 04/04/24 Analyzed: 04/05/24

Boron 0.104 2.00 mg/L 0.116 11.3 20

Matrix Spike (BHD0132-MS1)

Source: 2403437-01

Prepared: 04/04/24 Analyzed: 04/05/24

Boron 4.54 2.00 mg/L 5.00 0.116 88.5 75-125

Matrix Spike Dup (BHD0132-MSD1)

Source: 2403437-01

Prepared: 04/04/24 Analyzed: 04/05/24

Boron 4.69 2.00 mg/L 5.00 0.116 91.4 75-125 3.16 25

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BHC1088 - General Preparation

Blank (BHC1088-BLK1)

Prepared: 03/29/24 Analyzed: 04/01/24

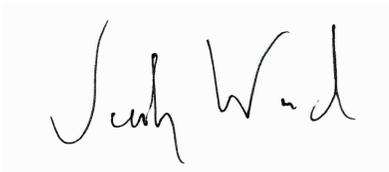
| | | | | | | | | | | |
|-----------|----|--------|----------|--|--|--|--|--|--|--|
| Calcium | ND | 0.0500 | mg/L wet | | | | | | | |
| Magnesium | ND | 0.0500 | " | | | | | | | |
| Sodium | ND | 0.0500 | " | | | | | | | |

LCS (BHC1088-BS1)

Prepared: 03/29/24 Analyzed: 04/01/24

| | | | | | | | | | | |
|-----------|------|--------|----------|------|--|------|--------|--|--|--|
| Calcium | 4.93 | 0.0500 | mg/L wet | 5.00 | | 98.6 | 70-130 | | | |
| Magnesium | 4.84 | 0.0500 | " | 5.00 | | 96.8 | 70-130 | | | |
| Sodium | 4.95 | 0.0500 | " | 5.00 | | 99.1 | 70-130 | | | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

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

Summit Scientific

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

Batch BHD0051 - General Preparation

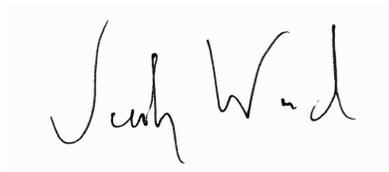
Duplicate (BHD0051-DUP1)

Source: 2403436-01

Prepared: 04/02/24 Analyzed: 04/03/24

| | | | | | |
|----------|------|---|------|-------|----|
| % Solids | 95.2 | % | 95.5 | 0.271 | 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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BHC1089 - General Preparation

Blank (BHC1089-BLK1)

Prepared: 03/29/24 Analyzed: 04/01/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHC1089-BS1)

Prepared: 03/29/24 Analyzed: 04/01/24

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 95-105

Duplicate (BHC1089-DUP1)

Source: 2403253-01

Prepared: 03/29/24 Analyzed: 04/01/24

Specific Conductance (EC) 0.104 0.0100 mmhos/cm 0.107 2.08 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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BHC1090 - General Preparation

LCS (BHC1090-BS1)

Prepared: 03/29/24 Analyzed: 04/01/24

| | | | | | |
|----|------|----------|------|------|--------|
| pH | 8.99 | pH Units | 9.18 | 97.9 | 95-105 |
|----|------|----------|------|------|--------|

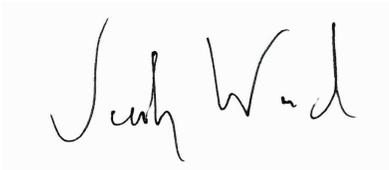
Duplicate (BHC1090-DUP1)

Source: 2403253-01

Prepared: 03/29/24 Analyzed: 04/01/24

| | | | | | |
|----|------|----------|------|------|----|
| pH | 8.65 | pH Units | 8.95 | 3.41 | 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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/08/24 14:55

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 01, 2024

Karen Olson
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: PDC - Hall 42-33
Work Order #2403460

Enclosed are the results of analyses for samples received by Summit Scientific on 03/28/24 17:55. 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', with a stylized, cursive script.

Paul Shrewsbury
President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

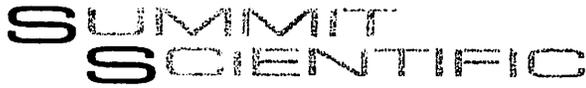
Reported:
04/01/24 06:42

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| GW01 | 2403460-01 | Water | 03/28/24 11:14 | 03/28/24 17:55 |
| GW02 | 2403460-02 | Water | 03/28/24 12:14 | 03/28/24 17:55 |
| GW03 | 2403460-03 | Water | 03/28/24 14:14 | 03/28/24 17:55 |

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.



4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

| | |
|---------|-------------|
| Lab ID | Page 1 of 1 |
| 2403460 | |

| | | | | | |
|---|--|---------------------------------|--|------------------------|--|
| Client: PDC / Tasman | | Project Manager: Karen Olson | | Send Invoice To: | |
| Address: 6855 W 119th Ave | | E-Mail: karen.olson@chevron.com | | Company: PDC Energy | |
| City/State/Zip: Broomfield / CO / 80020 | | Project Name: Mail 42-53 | | Project Name/Location: | |
| Phone: 303-487-1228 | | Project Number: | | AFE#: | |
| Sampler Name: Shannon Walus | | Project Number: | | PO/Billing Codes: | |
| | | | | Contact: Karen Olson | |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | | Analysis Requested | | | | | Special Instructions |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|---------------|-------------------|--------------|--|----------------------|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | BTEXN - 8260B | 1,2,4 & 1,3,5-TMB | TDS, Cl, SO4 | | |
| 1 | GW01 | 3/28/21 | 1114 | 4 | | | X | | X | | | | X | X | X | | |
| 2 | GW02 | - | 1214 | 1 | | | | | | | | | | | | | |
| 3 | GW03 | - | 1414 | 1 | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--|---------------------------------|------------------------------------|--------------------------------|-------------------|---|--------|
| Relinquished by: Shannon Walus | Date/Time: 3/28/21 1730 | Received by: Tasman Lochbox | Date/Time: 3/28/21 1730 | TAT Business Days | Field DO | Notes: |
| | | | | Same Day | Field EC | |
| Relinquished by: Tasman Lochbox | Date/Time: 3/28/21 1730 | Received by: [Signature] | Date/Time: 3/28/21 1730 | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| Temperature Upon Receipt: 8.8 | Corrected Temperature: 8 | IR gun #: | HNO3 lot #: | Standard | <input checked="" type="checkbox"/> Field Turb. | |

S₂

Sample Receipt Checklist

S2 Work Order# 2403460

Client: Bocterman

Client Project ID: Hall 42-33

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: _____

-

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

| | Yes | No | N/A | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If custody seals are present, are they intact? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ON ICE |
| Are samples due within 48 hours present? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input 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"/> | |
| Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 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"/> | |
| 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"/> | |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 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.

AB

Custodian Printed Name

3/28/24
Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/01/24 06:42

GW01
2403460-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 11:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 1.0 | | ug/l | 1 | BHC1085 | 03/29/24 | 03/30/24 | EPA 8260B | |
| Toluene | ND | 1.0 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **03/28/24 11:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 12.2 | 91.8 % | | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 14.2 | 107 % | | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 10.4 | 77.8 % | | 21-167 | | " | " | " | " | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/01/24 06:42

GW02
2403460-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 12:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 1.0 | | ug/l | 1 | BHC1085 | 03/29/24 | 03/30/24 | EPA 8260B | |
| Toluene | ND | 1.0 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **03/28/24 12:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 11.7 | 87.7 % | | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 14.1 | 106 % | | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 10.9 | 81.9 % | | 21-167 | | " | " | " | " | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/01/24 06:42

GW03
2403460-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 14:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 1.0 | | ug/l | 1 | BHC1085 | 03/29/24 | 03/30/24 | EPA 8260B | |
| Toluene | ND | 1.0 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **03/28/24 14:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 12.3 | 92.0 % | | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 14.4 | 108 % | | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 10.6 | 79.2 % | | 21-167 | | " | " | " | " | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/01/24 06:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC1085 - EPA 5030 Water MS

Blank (BHC1085-BLK1)

Prepared: 03/29/24 Analyzed: 03/30/24

| | | | | | | | | | | |
|---|------|-----|------|------|--|------|--------|--|--|--|
| Benzene | ND | 1.0 | ug/l | | | | | | | |
| Toluene | ND | 1.0 | " | | | | | | | |
| Ethylbenzene | ND | 1.0 | " | | | | | | | |
| Xylenes (total) | ND | 2.0 | " | | | | | | | |
| Naphthalene | ND | 1.0 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 11.9 | | " | 13.3 | | 89.6 | 23-173 | | | |
| <i>Surrogate: Toluene-d8</i> | 14.5 | | " | 13.3 | | 109 | 20-170 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 10.6 | | " | 13.3 | | 79.4 | 21-167 | | | |

LCS (BHC1085-BS1)

Prepared: 03/29/24 Analyzed: 03/30/24

| | | | | | | | | | | |
|---|------|-----|------|------|--|------|--------|--|--|--|
| Benzene | 31.9 | 1.0 | ug/l | 33.3 | | 95.7 | 51-132 | | | |
| Toluene | 29.2 | 1.0 | " | 33.3 | | 87.5 | 51-138 | | | |
| Ethylbenzene | 32.4 | 1.0 | " | 33.3 | | 97.2 | 58-146 | | | |
| m,p-Xylene | 65.8 | 2.0 | " | 66.7 | | 98.7 | 57-144 | | | |
| o-Xylene | 30.4 | 1.0 | " | 33.3 | | 91.2 | 53-146 | | | |
| Naphthalene | 29.4 | 1.0 | " | 33.3 | | 88.1 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 29.7 | 1.0 | " | 33.3 | | 89.1 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 23.7 | 1.0 | " | 33.3 | | 71.1 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 12.6 | | " | 13.3 | | 94.1 | 23-173 | | | |
| <i>Surrogate: Toluene-d8</i> | 14.2 | | " | 13.3 | | 107 | 20-170 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 11.1 | | " | 13.3 | | 83.0 | 21-167 | | | |

Matrix Spike (BHC1085-MS1)

Source: 2403385-01

Prepared: 03/29/24 Analyzed: 03/30/24

| | | | | | | | | | | |
|---|------|-----|------|------|----|------|--------|--|--|-------|
| Benzene | 28.9 | 1.0 | ug/l | 33.3 | ND | 86.6 | 34-141 | | | |
| Toluene | 26.2 | 1.0 | " | 33.3 | ND | 78.6 | 27-151 | | | |
| Ethylbenzene | 28.3 | 1.0 | " | 33.3 | ND | 84.9 | 29-160 | | | |
| m,p-Xylene | 56.8 | 2.0 | " | 66.7 | ND | 85.1 | 20-166 | | | |
| o-Xylene | 26.1 | 1.0 | " | 33.3 | ND | 78.2 | 33-159 | | | |
| Naphthalene | 16.7 | 1.0 | " | 33.3 | ND | 50.1 | 70-130 | | | QM-07 |
| 1,2,4-Trimethylbenzene | 18.2 | 1.0 | " | 33.3 | ND | 54.7 | 70-130 | | | QM-07 |
| 1,3,5-Trimethylbenzene | 20.2 | 1.0 | " | 33.3 | ND | 60.7 | 70-130 | | | QM-07 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 12.2 | | " | 13.3 | | 91.3 | 23-173 | | | |
| <i>Surrogate: Toluene-d8</i> | 14.2 | | " | 13.3 | | 107 | 20-170 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 10.9 | | " | 13.3 | | 81.5 | 21-167 | | | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/01/24 06:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC1085 - EPA 5030 Water MS

| Matrix Spike Dup (BHC1085-MSD1) | Source: 2403385-01 | | | Prepared: 03/29/24 Analyzed: 03/30/24 | | | | | | |
|----------------------------------|--------------------|-----|------|---------------------------------------|----|------|--------|------|----|-------|
| Benzene | 27.6 | 1.0 | ug/l | 33.3 | ND | 82.8 | 34-141 | 4.53 | 30 | |
| Toluene | 25.5 | 1.0 | " | 33.3 | ND | 76.6 | 27-151 | 2.51 | 30 | |
| Ethylbenzene | 27.6 | 1.0 | " | 33.3 | ND | 83.0 | 29-160 | 2.32 | 30 | |
| m,p-Xylene | 54.4 | 2.0 | " | 66.7 | ND | 81.6 | 20-166 | 4.21 | 30 | |
| o-Xylene | 25.5 | 1.0 | " | 33.3 | ND | 76.6 | 33-159 | 2.09 | 30 | |
| Naphthalene | 15.7 | 1.0 | " | 33.3 | ND | 47.0 | 70-130 | 6.30 | 30 | QM-07 |
| 1,2,4-Trimethylbenzene | 17.6 | 1.0 | " | 33.3 | ND | 52.7 | 70-130 | 3.75 | 30 | QM-07 |
| 1,3,5-Trimethylbenzene | 19.8 | 1.0 | " | 33.3 | ND | 59.4 | 70-130 | 2.25 | 30 | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 12.5 | | " | 13.3 | | 93.8 | 23-173 | | | |
| Surrogate: Toluene-d8 | 14.1 | | " | 13.3 | | 105 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 10.9 | | " | 13.3 | | 81.9 | 21-167 | | | |

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Hall 42-33

Project Number: [none]
Project Manager: Karen Olson

Reported:
04/01/24 06:42

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference