

May 29, 2024

Noble Energy Inc. – McDermed 2-1

Groundwater Monitoring Report

API # 05-123-12223

NWNE Sec 1, T4N, R64W

40.34695°, -104.49421°

Weld County, Colorado

Fremont Project No. C020-022

Facility # 322891, Remediation # 15399

Site Overview – Site History

Soil and groundwater impacts were identified at the former McDermed tank battery produced water vault (PWV) location during its abandonment. A site investigation was conducted on May 27, 2020 to delineate the magnitude and extent of impacts at the former PWV location. A total of eight soil borings were advanced utilizing a Geoprobe rig and one hand-augered boring was advanced within the bermed area. The eight borings were completed as flush-mounted, one-inch diameter monitoring wells. These monitoring wells were sampled quarterly until a no further action designation was granted for groundwater monitoring under Document Number (#403233128) on November 17, 2023.

Excavation to remove soil impacts left in place at the former PWV began following the removal of the above-ground storage tank adjacent to the former PWV. Excavation activities at the former PWV were completed on September 07, 2023. A total of approximately 1,960 tons (~ 1,400 cubic yards) of petroleum impacted soil and 730 bbls of groundwater were removed from the location via excavation and hydrovac by 4X Industrial, Inc. Impacted soil was disposed of at North Weld Landfill in Ault, Colorado as non-hazardous waste, and the excavation was backfilled using clean fill dirt. Impacted groundwater was observed in one sample collected from the excavation prompting additional delineation, monitoring well installation, and monitoring of dissolved phased groundwater impacts.

Conceptual Site Model*

*Data presented represents the most recent sampling event

- **Land Use** – Agricultural
- **Soil Type (USCS)** – SC
- **Potential Receptors within ¼ mile** – Occupied Building 250'
- **Inferred Groundwater Gradient (Ft/Ft) and Flow Direction** – 0.042 ft/ft southeast
- **Average Depth to Groundwater** – 5-7 ft
- **Impacted Media and Extent** – Groundwater, soil
- **LNAPL Present** – No
- **Points of Compliance** – Yes, in all cardinal and ordinal directions
- **Number of Consecutive ECMC Compliant Quarters** – two
- **Remediation Type** – MNA
- **Remediation System Activation Date** – NA

Contaminants of Concern (COC)

The laboratory data indicate that the dissolved phase organic and inorganic constituents were below their respective ECMC Table 915-1 standards in all five wells sampled during the April 2024 quarterly monitoring event. The groundwater analytical data are summarized in Tables 1 and 2 and illustrated on Figure 4. A copy of the laboratory's report, quality control data, and chain-of-custody documentation is attached.

Remedial Actions

Due to the absence of dissolved phase impacts at this site monitored natural attenuation of groundwater will continue quarterly until four consecutive ECMC Table 915-1 complaint quarters are achieved. The Q2 2024 sample event marks the second consecutive clean quarter of groundwater monitoring at the site.

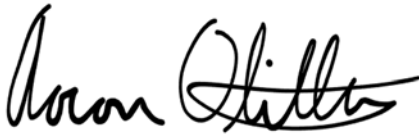
Remarks

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

Please contact me at (603) 477-6907 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



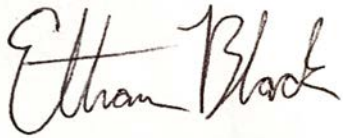
5/29/24

Date _____

Aaron Otillar

Consultant

Reviewed by:

A handwritten signature in black ink that reads "Ethan Black". The signature is written in a cursive, flowing style.

5/29/24

Date_____

Ethan D. Black, P.G.

Geologist

Attachments:

Tables

Figures

Laboratory Report

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
NOBLE 100322
MC DERMED 2-1, WELD COUNTY, COLORADO
REM # 15399

| Sample ID | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | Naphthalene (µg/L) | 1,2,4- Trimethyl- Benzene (µg/L) | 1,3,5- Trimethyl- Benzene (µg/L) | TOC Elevation (ft) | Depth to Groundwa ter Below TOC (ft) | Groundwa ter Elevation (ft) | LNAPL Thickness (ft) |
|-------------------------|-------------|-------------------|-------------------|-------------------------|-------------------|-----------------------|---|---|-----------------------|--|--------------------------------------|----------------------------|
| ECMC Table 915-1 Limits | | 5.0 | 560 | 700 | 1400 | 140 | 67 | 67 | | | | |
| MW-1 | 01/23/24 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 100.00 | 7.48 | 92.52 | NP |
| | 04/05/24 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | | 8.16 | 91.84 | NP |
| MW-2 | 01/23/24 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 100.51 | 7.68 | 92.83 | NP |
| | 04/05/24 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | | 8.39 | 92.12 | NP |
| MW-3 | 01/23/24 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 99.98 | 7.42 | 92.56 | NP |
| | 04/05/24 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | | 8.17 | 91.81 | NP |
| MW-4 | 01/23/24 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 100.08 | 7.47 | 92.61 | NP |
| | 04/05/24 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | | 8.18 | 91.90 | NP |
| MW-5 | 01/23/24 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 99.58 | 7.45 | 92.13 | NP |
| | 04/05/24 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | | 8.13 | 91.45 | NP |

MW-3 was used as the up/cross gradient background well.

2. Red highlighted groundwater analytical values indicate a regulatory exceedance

NP - No measurable LNAPL, NA - Not Analyzed, NL - No Limit, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed

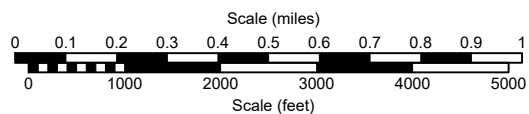
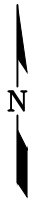
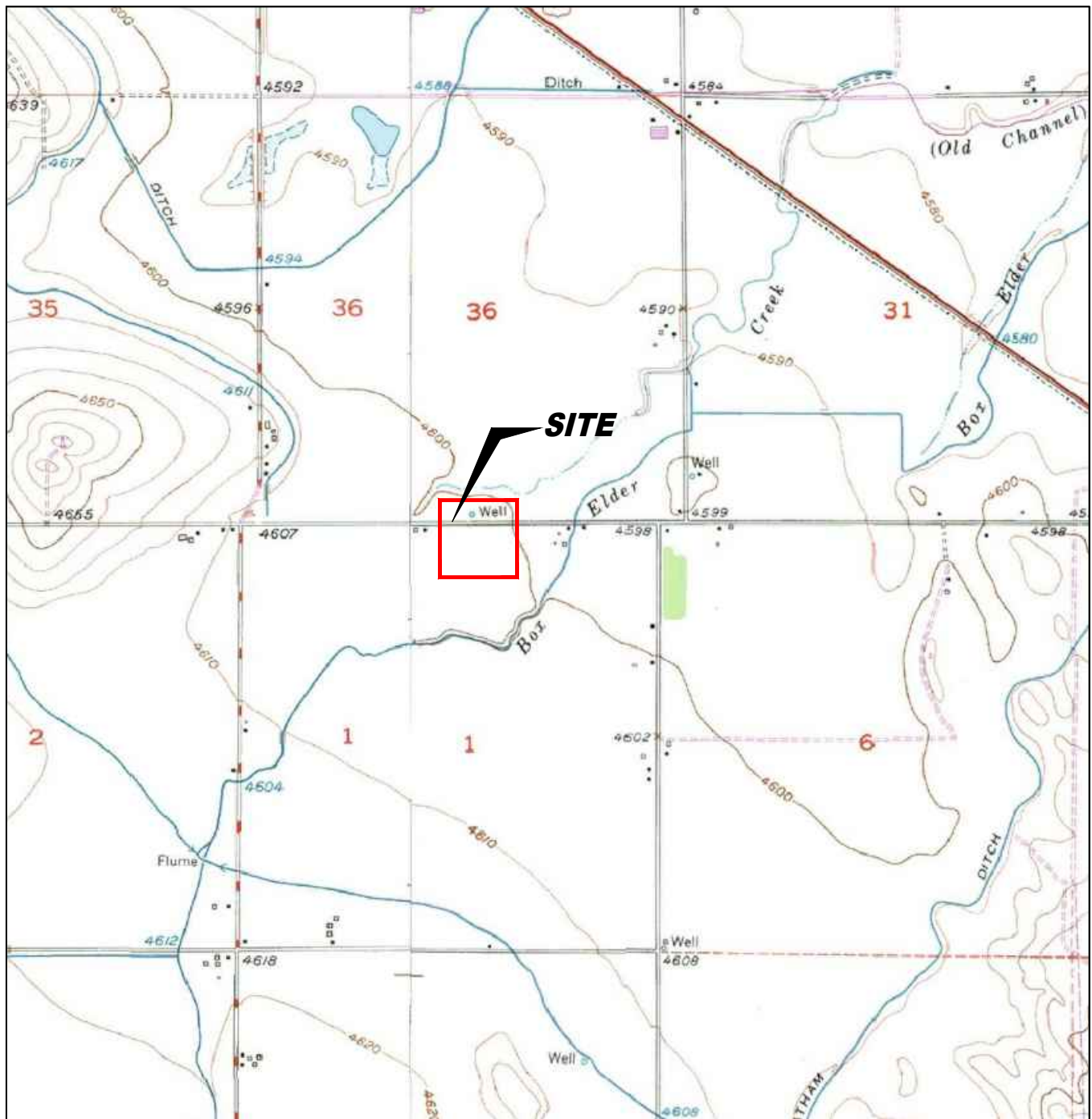
TABLE 2
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE 100322
MC DERMED 2-1, Weld COUNTY, COLORADO
REM # 15399

| Sample ID | Sample Date | Total Dissolved Solids (mg/L) | Chloride Ion (mg/L) | Sulfate Ion (mg/L) |
|------------------------------------|-------------|----------------------------------|---------------------------------|---------------------------------|
| ECMC Table 915-1 Limits | | <1.25 x local background | 250 or <1.25 x local background | 250 or <1.25 x local background |
| MW-1 | 1/23/24 | 1340 | 206 | 559 |
| | 04/05/2024 | 1370 | 154 | 428 |
| MW-2 | 1/23/24 | 1510 | 250 | 571 |
| | 04/05/2024 | 1540 | 204 | 450 |
| MW-3 | 1/23/24 | 2070 | 349 | 892 |
| | 04/05/2024 | 1750 | 241 | 566 |
| MW-4 | 1/23/24 | 1880 | 360 | 695 |
| | 04/05/2024 | 1470 | 205 | 417 |
| MW-5 | 1/23/24 | 1580 | 259 | 525 |
| | 04/05/2024 | 1440 | 198 | 400 |
| Background Concentration (Current) | | 1925 | 241 | 563 |

1. Bold values exceed the ECMC limit(s)

NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed

MW-3 was used as the up/cross gradient background well.



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY, INC. ~ McDERMED 2-1
NWNE Sec. 1, T4N, R64W, 6th PM
Weld County, Colorado
40.34695°, -104.49421°

Project No.
CO20-022

Prepared by

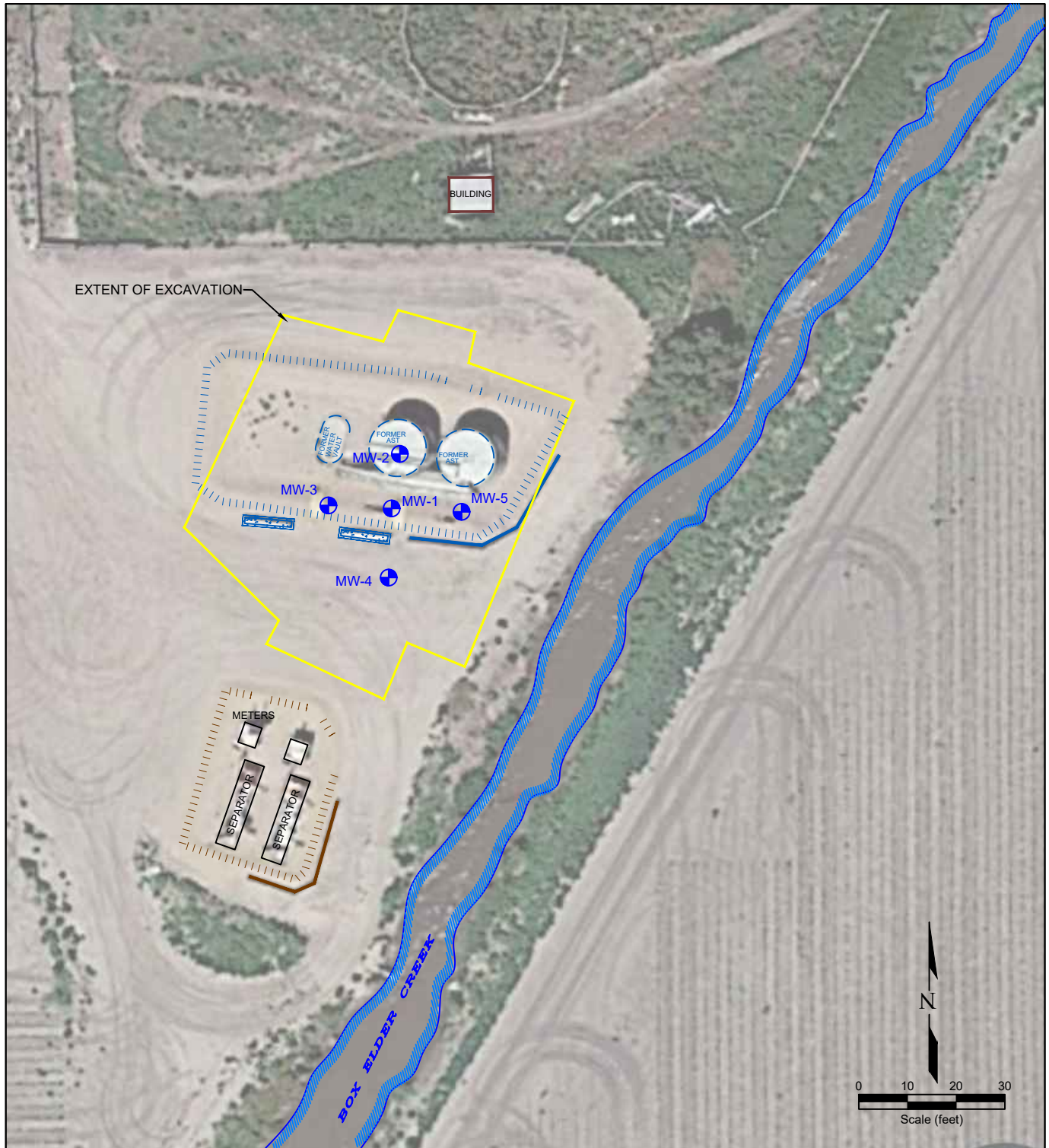
Drawn by
TA

Date
4/25/24

Reviewed by
AO

Filename
20022T





LEGEND

| | | | |
|--------------------------|---------------------------|----------------------|------------------|
| MONITORING WELL LOCATION | ABOVE GROUND STORAGE TANK | FORMER FACILITY | CONTAINMENT BERM |
| CONCRETE BARRICADES | BUILDING | EXTENT OF EXCAVATION | CONTAINMENT WALL |
| | | FENCE LINE | |

Figure 2
SITE MAP

NOBLE ENERGY, INC. ~ McDERMED 2-1
NWNE Sec. 1, T4N, R64W, 6th PM
Weld County, Colorado
40.34695°, -104.49421°

Project No.
CO20-022

Prepared by

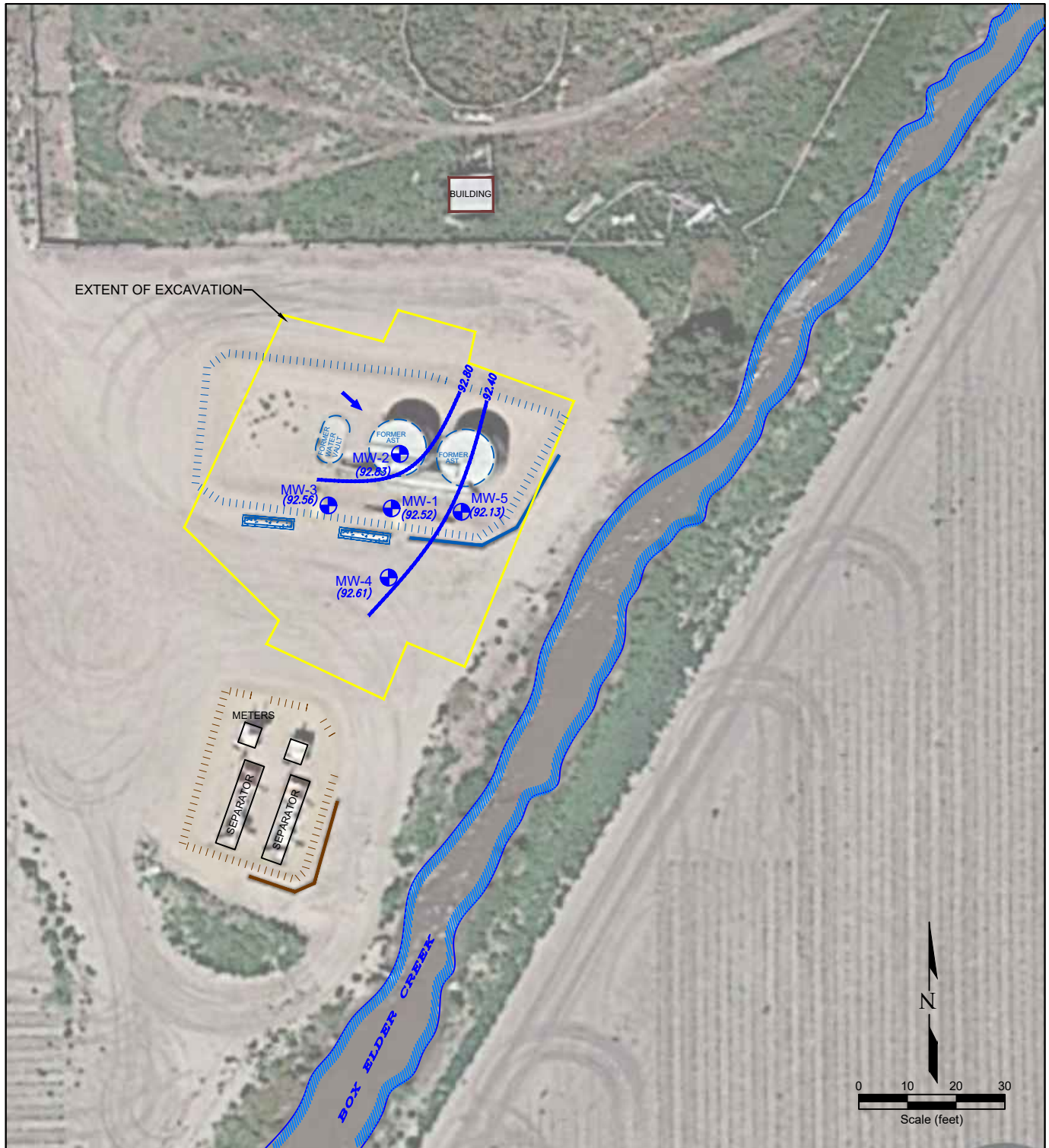
Drawn by
TA

Date
4/25/24

Reviewed by
AO

Filename
20022Q2





LEGEND

- MONITORING WELL LOCATION
- ABOVE GROUND STORAGE TANK
- SEPARATOR CONCRETE BARRICADES
- FORMER FACILITY FORMER FACILITY
- BUILDING BUILDING
- CONTAINMENT BERM
- EXTENT OF EXCAVATION
- CONTAINMENT WALL
- FENCE LINE

- (92.56) GROUND WATER ELEVATION (feet above mean sea level)
- ~ 92.40 ~ WATER TABLE CONTOUR (feet above mean sea level)
- INFERRED GROUND WATER

Figure 3
INFERRED GROUNDWATER CONTOUR MAP

NOBLE ENERGY, INC. ~ McDERMED 2-1.
NWNE Sec. 1, T4N, R64W, 6th PM
Weld County, Colorado
40.34695°, -104.49421°

Project No.
CO20-022

Prepared by

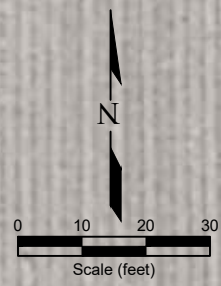
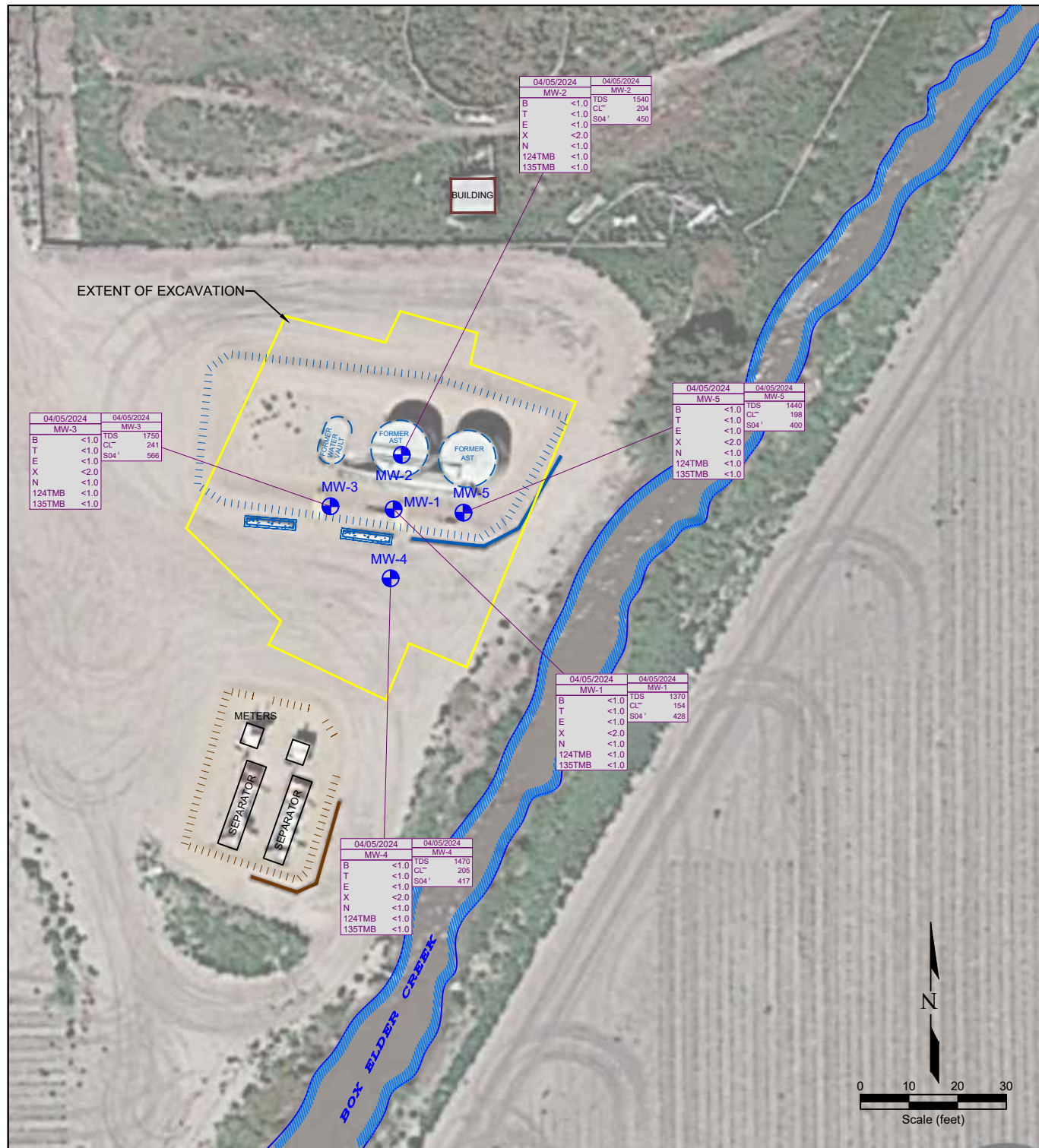
Drawn by
TA

Date
5/25/24

Reviewed by
AO

Filename
20022Q2





LEGEND

- MONITORING WELL LOCATION
- ABOVE GROUND STORAGE TANK
- CONCRETE BARRICADES
- FORMER FACILITY
- BUILDING
- BUILDING
- CONTAINMENT BERM
- EXTENT OF EXCAVATION
- CONTAINMENT WALL
- FENCE LINE

| 01/23/2024 | DATE SAMPLED |
|------------|--------------|
| MW-1 | SAMPLE ID |
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <2.0 |
| N | <1.0 |
| 124TMB | <1.0 |
| 135TMB | <1.0 |

| 01/23/2024 | DATE SAMPLED |
|------------------------------|--------------|
| MW-1 | SAMPLE ID |
| TDS | 1340 |
| CL ⁻ | 206 |
| SO ₄ ⁻ | 559 |

| 01/23/2024 | DATE SAMPLED |
|-------------------------------|--------------|
| MW-1 | SAMPLE ID |
| TOTAL DISSOLVED SOLIDS (mg/L) | |
| CHLORIDE ION (mg/L) | |
| SULFATE ION (mg/L) | |

Figure 4
GROUNDWATER CHEMISTRY MAP

NOBLE ENERGY, INC. ~ McDERMED 2-1
 NWNE Sec. 1, T4N, R64W, 6th PM
 Weld County, Colorado
 40.34695°, -104.49421°

Project No.
CO20-022

Prepared by

Drawn by

TA

Date
5/25/24

Reviewed by
AO

Filename
20022Q2



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

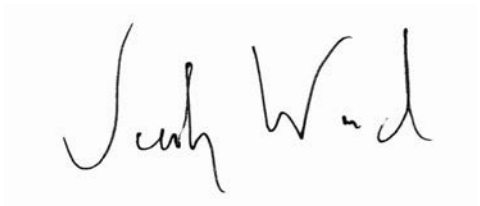
303.277.9310

May 14, 2024

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - McDermid 2-1
Work Order #2404120

Enclosed are the results of analyses for samples received by Summit Scientific on 04/08/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1
Project Number: UWRWE-A1241-ABN
Project Manager: Paul Henchan

Reported:
05/14/24 17:09

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| MW-1 | 2404120-01 | Water | 04/05/24 00:00 | 04/08/24 16:30 |
| MW-2 | 2404120-02 | Water | 04/05/24 00:00 | 04/08/24 16:30 |
| MW-3 | 2404120-03 | Water | 04/05/24 00:00 | 04/08/24 16:30 |
| MW-4 | 2404120-04 | Water | 04/05/24 00:00 | 04/08/24 16:30 |
| MW-5 | 2404120-05 | Water | 04/05/24 00:00 | 04/08/24 16:30 |

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SUMMIT SCIENTIFIC

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

| | |
|---------|-------------|
| Lab ID | Page 1 of 1 |
| 2404120 | |

| | | | |
|---------------------------------------|-----------------------------------|------------------------|--|
| Send Data To: | | Send Invoice To: | |
| Client: Fremont Environmental | Project Manager: Paul Henehan | Company: Noble | |
| Address: 8305 6th Street | E-Mail: Fremont Distribution List | Project Name/Location: | |
| City/State/Zip: Wellington, CO, 80549 | | AFE#: | |
| Phone: 603-477-6907 | Project Name: McDermid 2-1 | PO/Billing Codes: | |
| Sampler Name: Aaron Otilar | Project Number: C020-022 | Contact: Dan Peterson | |

| | | | | Preservative | | | | Matrix | | | | Analysis Requested | | | | | | | | Special Instructions | |
|----|--------------------|--------------|--------------|-----------------|-----|------|------|--------|-------|------|----------------|--------------------|-------------|--------------|-----|-------------|----------------|--------------------|--------------|----------------------|--|
| ID | Sample Description | Date Sampled | Time Sampled | # of containers | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | BTEXN - 915 | TPH (C6-C36) | PAH | TMB's - 915 | Metals (915-1) | SAR, EC, pH, Boron | TDS, Cl, SO4 | | |
| 1 | MW - 1 | 4/5/24 | | 5 | 3 | | 1 | | X | | | | 7 | | | X | | | X | | |
| 2 | MW - 2 | 1 | | 1 | 1 | | 1 | | 1 | | | | 1 | | | 1 | | | 1 | | |
| 3 | MW - 3 | 1 | | 1 | 1 | | 1 | | 1 | | | | 1 | | | 1 | | | 1 | | |
| 4 | MW - 4 | 1 | | 1 | 1 | | 1 | | 1 | | | | 1 | | | 1 | | | 1 | | |
| 5 | MW - 5 | 1 | | 1 | 1 | | 1 | | 1 | | | | 1 | | | 1 | | | 1 | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--------------------------------------|--------------------------|---|------------------------|-------------------|---------------|--------|
| Relinquished by: <i>Aaron Otilar</i> | Date/Time: 4/5/24 1652 | Received by: <i>Summit North Office</i> | Date/Time: 4/5/24 1652 | TAT Business Days | Field DO | Notes: |
| Relinquished by: 52 | Date/Time: 4/8/24 1030 | Received by: <i>[Signature]</i> | Date/Time: 4/8/24 1030 | Same Day | Field EC | |
| | | | | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| | | | | 3 Days | Field Temp. | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Standard | X Field Turb. | |
| Temperature Upon Receipt: 6.6 | Corrected Temperature: 6 | IR gun #: 1 | HNO3 lot #: | | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2404120Client: VermontClient Project ID: McDermid 2-1Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☒

Other

☐

Temp (°C)

6.6

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"/> | |
| 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 checked="" 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HCl |
| 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

4/8/24
Date/Time

Eco



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1
Project Number: UWRWE-A1241-ABN
Project Manager: Paul Henchan

Reported:
05/14/24 17:09

MW-1
2404120-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Benzene | ND | 1.0 | ug/l | 1 | BHD0318 | 04/10/24 | 04/12/24 | 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: **04/05/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 13.4 | 101 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 13.5 | 101 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 13.0 | 97.1 % | 21-167 | | " | " | " | " | |

Anions by EPA Method 300.0

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chloride | 154 | 12.0 | mg/L | 200 | BHD0648 | 04/18/24 | 04/18/24 | EPA 300.0 | |
| Sulfate | 428 | 60.0 | " | " | " | " | " | " | |

Total Dissolved Solids by SM2540C

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-------|----------|---------|----------|----------|---------|-------|
| | | Limit | Units | | | | | | |
| Total Dissolved Solids | 1370 | 10.0 | mg/L | 1 | BHD0274 | 04/09/24 | 04/09/24 | SM2540C | |

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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1
Project Number: UWRWE-A1241-ABN
Project Manager: Paul Henchan

Reported:
05/14/24 17:09

MW-2
2404120-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 1.0 | ug/l | 1 | BHD0318 | 04/10/24 | 04/12/24 | 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: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 13.7 | 103 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 13.1 | 98.4 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 13.1 | 98.0 % | 21-167 | | " | " | " | " | |

Anions by EPA Method 300.0

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|------------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chloride | 204 | 12.0 | mg/L | 200 | BHD0648 | 04/18/24 | 04/18/24 | EPA 300.0 | |
| Sulfate | 450 | 60.0 | " | " | " | " | " | " | |

Total Dissolved Solids by SM2540C

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|-------------|-----------|-------|----------|---------|----------|----------|---------|-------|
| | | Limit | | | | | | | |
| Total Dissolved Solids | 1540 | 10.0 | mg/L | 1 | BHD0274 | 04/09/24 | 04/09/24 | SM2540C | |

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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1
Project Number: UWRWE-A1241-ABN
Project Manager: Paul Henchan

Reported:
05/14/24 17:09

MW-3
2404120-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 1.0 | ug/l | 1 | BHD0318 | 04/10/24 | 04/12/24 | 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: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 14.0 | 105 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 13.4 | 100 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 13.3 | 99.9 % | 21-167 | | " | " | " | " | |

Anions by EPA Method 300.0

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|------------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chloride | 241 | 12.0 | mg/L | 200 | BHD0648 | 04/18/24 | 04/18/24 | EPA 300.0 | |
| Sulfate | 566 | 60.0 | " | " | " | " | " | " | |

Total Dissolved Solids by SM2540C

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|-------------|-----------|-------|----------|---------|----------|----------|---------|-------|
| | | Limit | | | | | | | |
| Total Dissolved Solids | 1750 | 10.0 | mg/L | 1 | BHD0274 | 04/09/24 | 04/09/24 | SM2540C | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1
Project Number: UWRWE-A1241-ABN
Project Manager: Paul Henchan

Reported:
05/14/24 17:09

MW-4
2404120-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 1.0 | ug/l | 1 | BHD0318 | 04/10/24 | 04/12/24 | 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: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 13.9 | 104 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 13.3 | 99.9 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 13.0 | 97.4 % | 21-167 | | " | " | " | " | |

Anions by EPA Method 300.0

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chloride | 205 | 12.0 | mg/L | 200 | BHD0648 | 04/18/24 | 04/18/24 | EPA 300.0 | |
| Sulfate | 417 | 60.0 | " | " | " | " | " | " | |

Total Dissolved Solids by SM2540C

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-------|----------|---------|----------|----------|---------|-------|
| | | Limit | | | | | | | |
| Total Dissolved Solids | 1470 | 10.0 | mg/L | 1 | BHD0274 | 04/09/24 | 04/09/24 | SM2540C | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1
Project Number: UWRWE-A1241-ABN
Project Manager: Paul Henchan

Reported:
05/14/24 17:09

MW-5
2404120-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 1.0 | ug/l | 1 | BHD0318 | 04/10/24 | 04/12/24 | 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: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 14.5 | 109 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 13.5 | 101 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 13.1 | 98.1 % | 21-167 | | " | " | " | " | |

Anions by EPA Method 300.0

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|------------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chloride | 198 | 12.0 | mg/L | 200 | BHD0648 | 04/18/24 | 04/18/24 | EPA 300.0 | |
| Sulfate | 400 | 60.0 | " | " | " | " | " | " | |

Total Dissolved Solids by SM2540C

Date Sampled: **04/05/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|-------------|-----------|-------|----------|---------|----------|----------|---------|-------|
| | | Limit | | | | | | | |
| Total Dissolved Solids | 1440 | 10.0 | mg/L | 1 | BHD0274 | 04/09/24 | 04/09/24 | SM2540C | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1
Project Number: UWRWE-A1241-ABN
Project Manager: Paul Henchan

Reported:
05/14/24 17:09

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHD0318 - EPA 5030 Water MS

Blank (BHD0318-BLK1)

Prepared: 04/10/24 Analyzed: 04/11/24

| | | | | | | | | | | |
|----------------------------------|------|-----|------|------|--|------|--------|--|--|--|
| 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 | " | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 11.5 | | " | 13.3 | | 86.0 | 23-173 | | | |
| Surrogate: Toluene-d8 | 13.5 | | " | 13.3 | | 101 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 12.4 | | " | 13.3 | | 92.9 | 21-167 | | | |

LCS (BHD0318-BS1)

Prepared: 04/10/24 Analyzed: 04/11/24

| | | | | | | | | | | |
|----------------------------------|------|-----|------|------|--|------|--------|--|--|--|
| Benzene | 36.9 | 1.0 | ug/l | 33.3 | | 111 | 51-132 | | | |
| Toluene | 36.5 | 1.0 | " | 33.3 | | 110 | 51-138 | | | |
| Ethylbenzene | 39.2 | 1.0 | " | 33.3 | | 118 | 58-146 | | | |
| m,p-Xylene | 77.2 | 2.0 | " | 66.7 | | 116 | 57-144 | | | |
| o-Xylene | 35.6 | 1.0 | " | 33.3 | | 107 | 53-146 | | | |
| Naphthalene | 33.0 | 1.0 | " | 33.3 | | 99.1 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 31.7 | 1.0 | " | 33.3 | | 95.0 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 33.3 | 1.0 | " | 33.3 | | 100 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 12.3 | | " | 13.3 | | 92.3 | 23-173 | | | |
| Surrogate: Toluene-d8 | 13.2 | | " | 13.3 | | 99.2 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 12.0 | | " | 13.3 | | 90.2 | 21-167 | | | |

Matrix Spike (BHD0318-MS1)

Source: 2404120-01

Prepared: 04/10/24 Analyzed: 04/11/24

| | | | | | | | | | | |
|----------------------------------|------|-----|------|------|----|------|--------|--|--|--|
| Benzene | 36.7 | 1.0 | ug/l | 33.3 | ND | 110 | 34-141 | | | |
| Toluene | 35.3 | 1.0 | " | 33.3 | ND | 106 | 27-151 | | | |
| Ethylbenzene | 37.6 | 1.0 | " | 33.3 | ND | 113 | 29-160 | | | |
| m,p-Xylene | 74.2 | 2.0 | " | 66.7 | ND | 111 | 20-166 | | | |
| o-Xylene | 34.6 | 1.0 | " | 33.3 | ND | 104 | 33-159 | | | |
| Naphthalene | 36.1 | 1.0 | " | 33.3 | ND | 108 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 29.6 | 1.0 | " | 33.3 | ND | 88.9 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 31.6 | 1.0 | " | 33.3 | ND | 94.7 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 12.5 | | " | 13.3 | | 94.0 | 23-173 | | | |
| Surrogate: Toluene-d8 | 13.3 | | " | 13.3 | | 99.9 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 12.2 | | " | 13.3 | | 91.6 | 21-167 | | | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1
Project Number: UWRWE-A1241-ABN
Project Manager: Paul Henchan

Reported:
05/14/24 17:09

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

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

Batch BHD0318 - EPA 5030 Water MS

| Matrix Spike Dup (BHD0318-MSD1) | Source: 2404120-01 | | | Prepared: 04/10/24 Analyzed: 04/11/24 | | | | | | |
|----------------------------------|--------------------|-----|------|---------------------------------------|----|------|--------|--------|----|--|
| Benzene | 36.7 | 1.0 | ug/l | 33.3 | ND | 110 | 34-141 | 0.0545 | 30 | |
| Toluene | 35.8 | 1.0 | " | 33.3 | ND | 107 | 27-151 | 1.29 | 30 | |
| Ethylbenzene | 38.5 | 1.0 | " | 33.3 | ND | 115 | 29-160 | 2.13 | 30 | |
| m,p-Xylene | 74.6 | 2.0 | " | 66.7 | ND | 112 | 20-166 | 0.524 | 30 | |
| o-Xylene | 34.9 | 1.0 | " | 33.3 | ND | 105 | 33-159 | 0.777 | 30 | |
| Naphthalene | 28.9 | 1.0 | " | 33.3 | ND | 86.8 | 70-130 | 21.9 | 30 | |
| 1,2,4-Trimethylbenzene | 29.6 | 1.0 | " | 33.3 | ND | 88.9 | 70-130 | 0.0675 | 30 | |
| 1,3,5-Trimethylbenzene | 32.0 | 1.0 | " | 33.3 | ND | 95.9 | 70-130 | 1.32 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 12.8 | | " | 13.3 | | 96.0 | 23-173 | | | |
| Surrogate: Toluene-d8 | 13.2 | | " | 13.3 | | 98.6 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 12.2 | | " | 13.3 | | 91.8 | 21-167 | | | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermed 2-1
Project Number: UWRWE-A1241-ABN
Project Manager: Paul Henchan

Reported:
05/14/24 17:09

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BHD0648 - General Preparation

Blank (BHD0648-BLK1)

Prepared & Analyzed: 04/18/24

| | | | |
|----------|----|--------|------|
| Chloride | ND | 0.0600 | mg/L |
| Sulfate | ND | 0.300 | " |

LCS (BHD0648-BS1)

Prepared & Analyzed: 04/18/24

| | | | | | | |
|----------|------|--------|------|------|------|--------|
| Chloride | 2.95 | 0.0600 | mg/L | 3.00 | 98.2 | 90-110 |
| Sulfate | 15.2 | 0.300 | " | 15.0 | 101 | 90-110 |

Duplicate (BHD0648-DUP1)

Source: 2404120-01

Prepared & Analyzed: 04/18/24

| | | | | | | |
|----------|-----|------|------|-----|------|----|
| Chloride | 150 | 12.0 | mg/L | 154 | 2.37 | 20 |
| Sulfate | 413 | 60.0 | " | 428 | 3.47 | 20 |

Matrix Spike (BHD0648-MS1)

Source: 2404120-01

Prepared & Analyzed: 04/18/24

| | | | | | | | |
|----------|------|------|------|------|-----|------|--------|
| Chloride | 744 | 12.0 | mg/L | 600 | 154 | 98.3 | 80-120 |
| Sulfate | 3440 | 60.0 | " | 3000 | 428 | 100 | 80-120 |

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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1
Project Number: UWRWE-A1241-ABN
Project Manager: Paul Henchan

Reported:
05/14/24 17:09

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BHD0274 - General Preparation

Blank (BHD0274-BLK1)

Prepared & Analyzed: 04/09/24

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BHD0274-DUP1)

Source: 2404120-01

Prepared & Analyzed: 04/09/24

Total Dissolved Solids 1380 10.0 mg/L 1370 0.145 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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: UWRWE-A1241-ABN
Project Manager: Paul Henchan

Reported:
05/14/24 17:09

Notes and Definitions

| | |
|-----|--|
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |