

Form C-141

State of New Mexico  
Oil Conservation Division

Page 3

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2213946329 |
| District RP    | 1RP - 1090     |
| Facility ID    |                |
| Application ID |                |

**Site Assessment/Characterization***This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|                                                                                                                                                                                                 |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release?                                                                                                           | >51 (ft bgs)                                                        |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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State of New Mexico  
Oil Conservation Division

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|                |                 |
|----------------|-----------------|
| Incident ID    | nAPP 2213946329 |
| District RP    | 1RP - 1090      |
| Facility ID    |                 |
| Application ID |                 |

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Grant HuckabayTitle: HSE CoordinatorSignature: Date: 5/19/2022email: granth@forl.comTelephone: (432) 288-5529**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Form C-141

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State of New Mexico  
Oil Conservation Division

|                |                             |
|----------------|-----------------------------|
| Incident ID    | nAPP2213446329              |
| District RP    | 1RP - (1090/1825/1825/4298) |
| Facility ID    |                             |
| Application ID |                             |

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

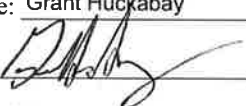
**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Grant Huckabay

Title: HSE Coordinator

Signature: 

Date: 05/19/2022

email: granth@forl.com

Telephone: (432) 288-5529

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: 

Date: 08/22/2022



## SITE INFORMATION

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**Work Plan  
Cabot Q SWD  
Lea County, New Mexico  
Unit L Sec 7 T15S R35E  
33.029926°, -103.453886 °**

**1RP-1090  
Produced Water Release  
Point of Release: Tank Overflow  
Release Date: 10/16/2006  
Volume Released: 70 barrels of Produced Water  
Volume Recovered: 20 barrels of Produced Water**

**1RP-1825  
Produced Water Release  
Point of Release: Loose Connection on the Injection Line  
Release Date: 03/19/2008  
Volume Released: 130 barrels of Produced Water  
Volume Recovered: 120 barrels of Produced Water**

**CARMONA RESOURCES**

**1RP-1825  
Produced Water Release  
Point of Release: Lighting Strike  
Release Date: 06/07/2008  
Volume Released: 300 barrels of Produced Water  
Volume Recovered: 280 barrels of Produced Water**



**1RP-4298  
Produced Water Release  
Point of Release: Injection Line Failed  
Release Date: 05/28/2016  
Volume Released: 110 barrels of Produced Water  
Volume Recovered: 100 barrels of Produced Water**

**Prepared for:  
Fasken Oil and Ranch, Ltd  
6101 Holiday Hill Road  
Midland, TX 79707**

**Prepared by:  
Carmona Resources, LLC  
310 West Wall Street  
Suite 415  
Midland, Texas 79701**

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APPENDIX D      LABORATORY REPORTS



May 18, 2022

New Mexico Oil Conservation Division  
1220 South St, Francis Drive  
Santa Fe, New Mexico 87505

**Re: Work Plan  
Cabot Q SWD  
Fasken Oil and Ranch, Ltd  
Site Location: Unit L, S07, T15S, R35E  
(Lat 33.029926, Long -103.453886°)  
Lea County, New Mexico**

To whom it may concern:

On behalf of Fasken Oil and Ranch, Ltd. (Fasken), Carmona Resource, LLC has prepared this document for activities at the Cabot Q SWD. The site is located at 33.029926°, -103.453886° within Unit L S07, T15S, R35E in Lea County, New Mexico (Figures 1 and 2).

## **1.0 Site information and Background**

### **1RP-1090**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on March 19, 2006, caused by a plugged check valve causing the tank overflow. It resulted in the release of approximately seventy (70) barrels of produced water, and twenty (20) were recovered. The impacted area is shown, on Figure 3. The initial C-141 form is attached in Appendix B.

### **1RP-1825**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on March 19, 2008, caused by pump vibration causing the injection line to come loose. It resulted in the release of approximately one hundred and thirty (130) barrels of produced water, and one hundred and twenty (120) were recovered. The impacted area is shown on Figure 3. The initial C-141 form is attached in Appendix B.

### **1RP-1825**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on June 7, 2008, caused by a lightning strike. It resulted in the release of approximately three hundred (300) barrels of produced water, and two hundred and eighty (280) were recovered. The impacted area is shown on Figure 3. The initial C-141 form is attached in Appendix B.

### **1RP-4298**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on May 28, 2016, caused by a failed injection line. It resulted in the release of approximately one hundred and ten (110) barrels of produced water, and one hundred (100) were recovered. The impacted area is shown on Figure 3. The initial C-141 form is attached in Appendix B.

310 West Wall Street, Suite 415  
Midland, Texas 79701  
432.813.1992



## **2.0 Site Characterization and Groundwater**

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, five known water source is within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.27 miles East of the site in S07, T15S, R35E and was drilled in 1983. The well has a reported depth to groundwater of 75' below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D.

On April 20, 2022, Scarborough Drilling, Inc was onsite to drill a groundwater determination bore to 51 ft below ground surface and within a 0.50-mile radius of the location. The bore was left open for 72 hours and tagged with a water level meter. No water was detected at 51' below the surface. The coordinates for the groundwater determination bore are 33.029823°, -103.453124. See Appendix D for the driller's log.

## **3.0 NMAC Regulatory Criteria**

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO)
- Chloride: 10,000 mg/kg

## **4.0 Site Assessment Activities**

### **Initial Assessment**

On March 3, 2022, Fasken performed site assessment activities to evaluate soil impacts stemming from the multiple releases. A total of seven (7) points were advanced to depths ranging from surface – 4.5' bgs inside the release area to evaluate the vertical extent. See Table 1 for the analytical results. Due to the dense formation, Fasken could not vertically delineate via a backhoe. On March 18, 2022, Fasken performed site assessment activities to evaluate soil impacts stemming from the multiple releases. A total of fourteen (14) sample points were advanced to depths ranging from surface – 1.0' bgs outside the release area to evaluate the horizontal extent. See Figure 3 for the soil sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

See Table 1 for the analytical results.

## **5.0 Proposed Work Plan**

Based on the analytical data and the detected TPH and Chloride concentrations, Fasken proposes to remediate the areas in Figure 4. The maximum depth captured during site activities was around 2' in the majority of the areas and could not break through the dense rock formation via backhoe or track hoe.

- The areas of S-1 and S-2 will be attempted to be excavated to a depth of 1.5' below the surface; if



not achievable, will dig to the max depth and backfilled with clean material to grade.

- The areas of BH-1, BH-2, BH-3, and BH-6 will be attempted to be excavated to a depth of 2.5' below the surface; if not achievable will dig to the max depth and backfilled with clean material to grade
- The areas of BH-4 and BH-5 will be attempted to be excavated to a depth of 3.0' below the surface; if not achievable, will dig to the max depth and backfilled with clean material to grade.
- The area of T-1 will be attempted to be excavated to a depth of 4.0' below the surface; if not achievable, will dig to the max depth and be backfilled with clean material to grade.
- Fasken requests a variance per 19.15.29.14.A NMAC collecting composite sidewall and floor samples every 400 square feet.
- An estimated 8,440 cubic yards to be removed and hauled to the nearest disposal.

Once the site activities and excavation are complete, the areas will be backfilled with clean material to surface grade. The remediation will be implemented 90 days after the work plan is approved.

## **6.0 Conclusions**

Upon completion, a final closure report describing the remediation activities will be presented to the New Mexico Oil Conservation Division (NMOCD). If you have any questions regarding this report or need additional information, don't hesitate to contact us at 432-813-1992.

Sincerely,

**Carmona Resources, LLC**

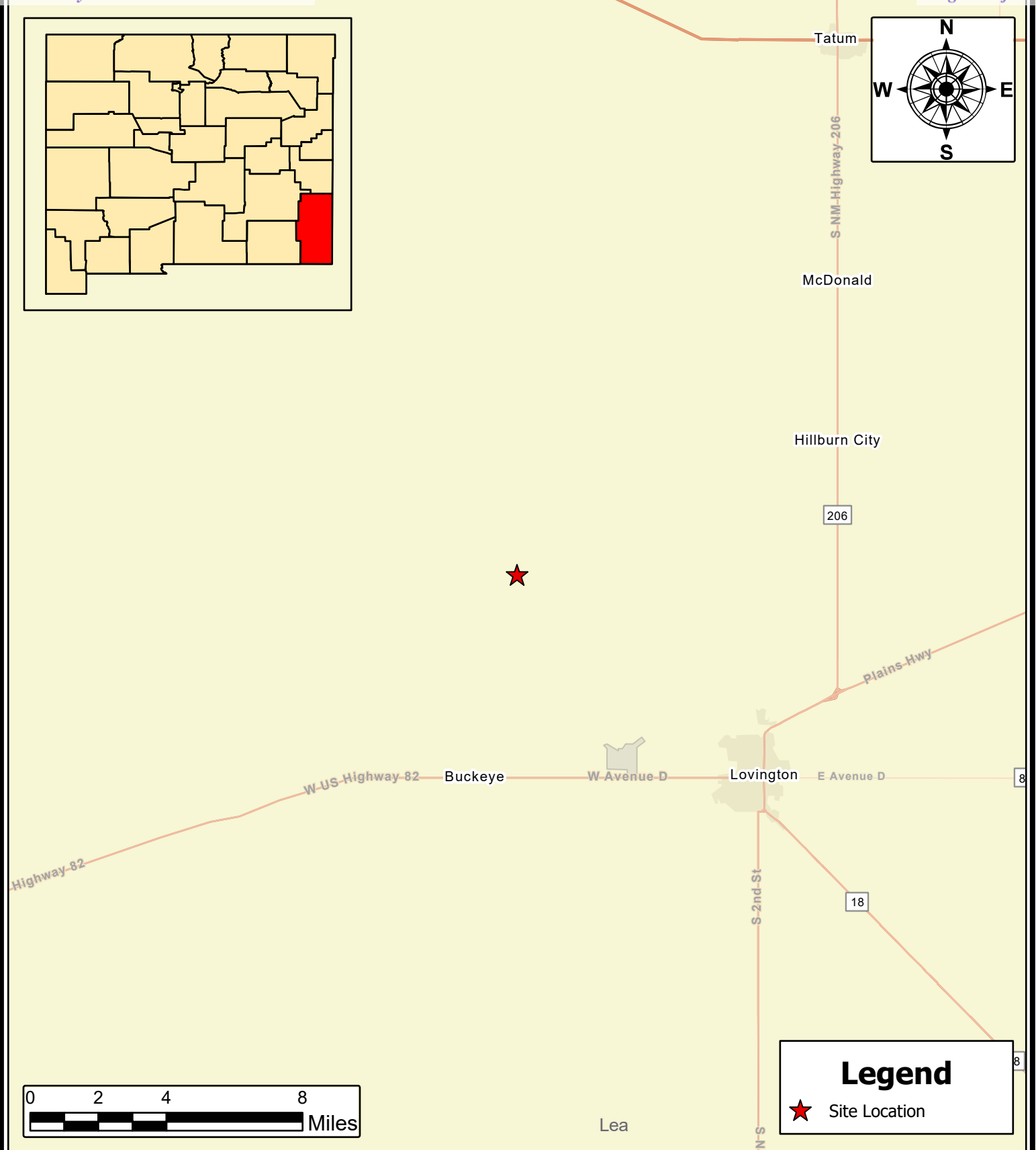
Mike Carmona  
Environmental Manager

Conner Moehring  
Sr. Project Manager

## FIGURES

CARMONA RESOURCES



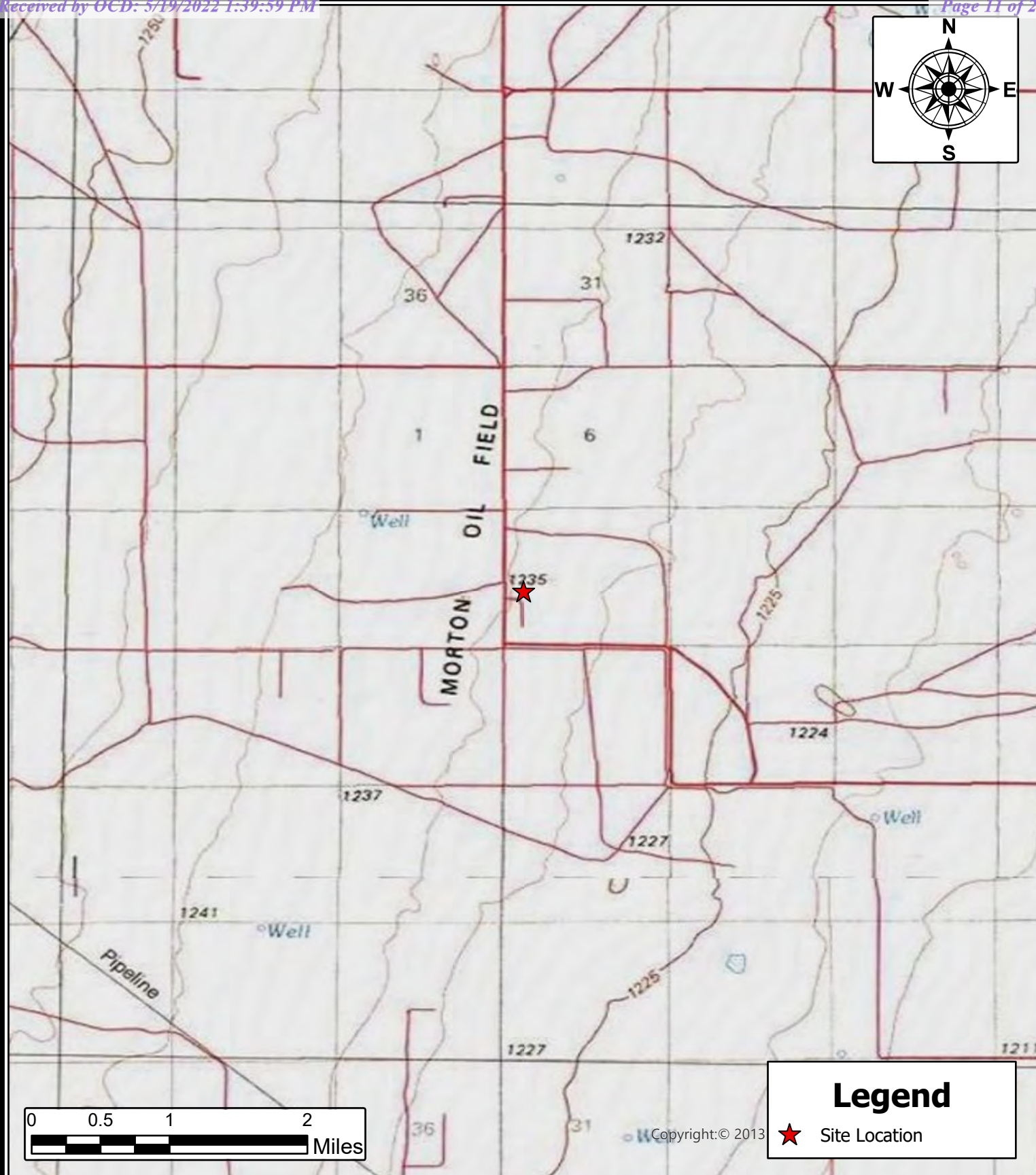


|                                                                                                                       |                |
|-----------------------------------------------------------------------------------------------------------------------|----------------|
| <b>OVERVIEW MAP</b><br><b>FASKEN OIL AND RANCH</b><br>CABOT Q SWD<br>LEA COUNTY, NEW MEXICO<br>33.029926, -103.453886 |                |
| SCALE: As Shown                                                                                                       | Date: 5/5/2022 |

|                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Carmona Resources</b><br>310 West Wall Street, Suite 415<br>Midland, Texas 79701 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                   |
|---------------------------------------------------------------------------------------------------|
| <b>NOTES:</b><br>1. Base Image: ESRI Maps & Data 2013<br>2. Map Projection: NAD 1983 UTM Zone 13N |
|---------------------------------------------------------------------------------------------------|

|                 |
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| DRAWING NUMBER: |
| <b>FIGURE 1</b> |
| SHEET NUMBER:   |
| <b>1 of 1</b>   |

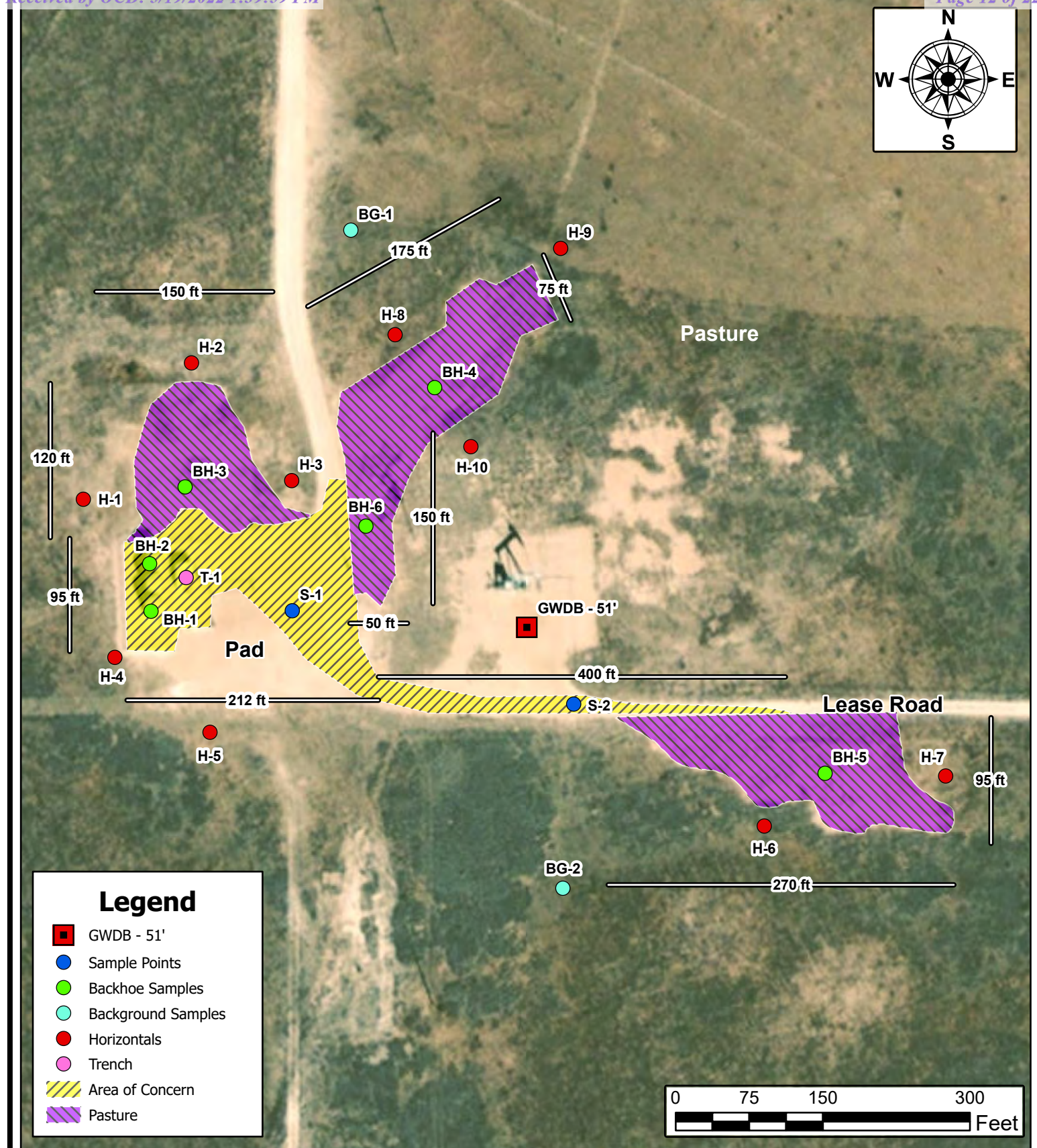


|                                                                                                                          |                |
|--------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>TOPOGRAPHIC MAP</b><br><b>FASKEN OIL AND RANCH</b><br>CABOT Q SWD<br>LEA COUNTY, NEW MEXICO<br>33.029926, -103.453886 |                |
| SCALE: As Shown                                                                                                          | Date: 5/5/2022 |

|                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Carmona Resources</b><br>310 West Wall Street, Suite 415<br>Midland, Texas 79701 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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| <b>NOTES:</b><br>1. Base Image: ESRI Maps & Data 2013<br>2. Map Projection: NAD 1983 UTM Zone 13N |
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|                 |
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| DRAWING NUMBER: |
| <b>FIGURE 2</b> |
| SHEET NUMBER:   |
| <b>1 of 1</b>   |



**SAMPLE LOCATION MAP**  
**FASKEN OIL AND RANCH**  
 CABOT Q SWD  
 LEA COUNTY, NEW MEXICO  
 33.029926, -103.453886

SCALE: As Shown

Date: 5/5/2022



**Carmona Resources**  
 310 West Wall Street, Suite 415  
 Midland, Texas 79701

**NOTES:**

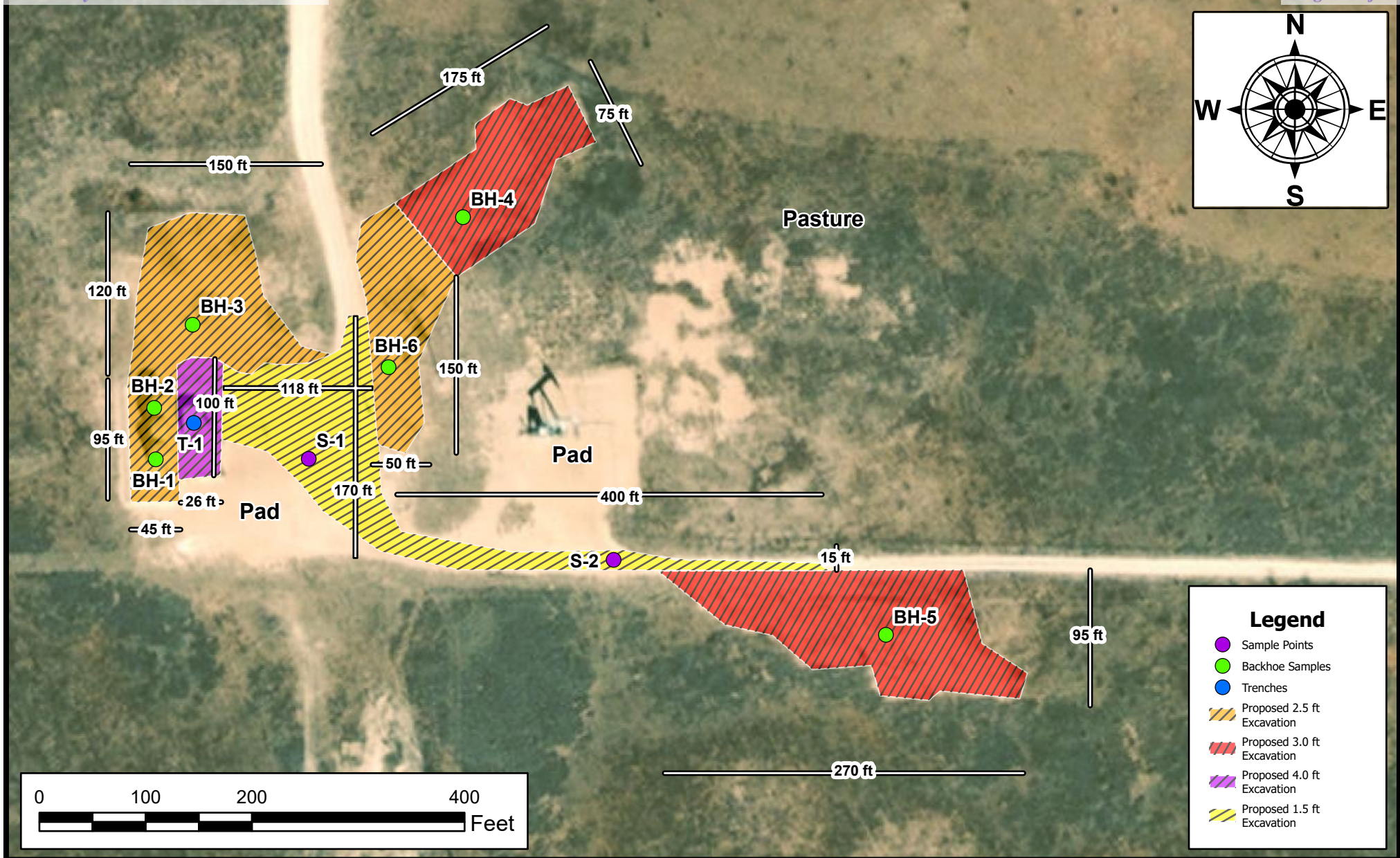
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

**FIGURE 3**

SHEET NUMBER:

**1 of 1**



**EXCAVATION DEPTH MAP**  
**FASKEN OIL AND RANCH**  
 CABOT Q SWD  
 LEA COUNTY, NEW MEXICO  
 33.029926, -103.453886



**Carmona Resources**  
 310 West Wall Street, Suite 415  
 Midland, Texas 79701

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

**FIGURE 4**

SHEET NUMBER:

**1 of 1**

SCALE: As Shown

Date: 5/16/2022

## APPENDIX A

CARMONA RESOURCES



| Sample Results  |              |             |             |         |                   |  |  |  | Sample Results  |              |             |             |      |                   |
|-----------------|--------------|-------------|-------------|---------|-------------------|--|--|--|-----------------|--------------|-------------|-------------|------|-------------------|
| Sample I.D      | Date Sampled | Depth (ft.) | TPH (mg/kg) | BTEX    | Chlorides (mg/kg) |  |  |  | Sample I.D      | Date Sampled | Depth (ft.) | TPH (mg/kg) | BTEX | Chlorides (mg/kg) |
| BG1             | 3/18/2022    | 0-6"        | ND          | ND      | 25.4              |  |  |  | H1              | 3/18/2022    | 0-6"        | ND          | ND   | ND                |
| BG2             | 3/18/2022    | 0-6"        | 51.1        | ND      | 8.28              |  |  |  | H1              | 3/18/2022    | 1'          | ND          | ND   | 13.8              |
| BH1             | 3/3/2022     | 0-6"        | 486         | ND      | 8930              |  |  |  | H2              | 3/18/2022    | 0-6"        | ND          | ND   | 109               |
| BH1             | 3/3/2022     | 1'          | 241         | ND      | 9830              |  |  |  | H2              | 3/18/2022    | 1'          | ND          | ND   | 572               |
| BH1             | 3/3/2022     | 2'          | 402         | 0.00855 | 4670              |  |  |  | H3              | 3/18/2022    | 0-6"        | ND          | ND   | 60.3              |
| BH1             | 3/3/2022     | 2.25'       | 383         | ND      | 9350              |  |  |  | H3              | 3/18/2022    | 1'          | 84.7        | ND   | 49.9              |
| BH2             | 3/3/2022     | 0-6"        | 1110        | ND      | 2910              |  |  |  | H4              | 3/18/2022    | 0-6"        | ND          | ND   | 9.03              |
| BH2             | 3/3/2022     | 1'          | 1220        | ND      | 12400             |  |  |  | H4              | 3/18/2022    | 1'          | ND          | ND   | 671               |
| BH2             | 3/3/2022     | 2'          | 308         | ND      | 82.9              |  |  |  | H5              | 3/18/2022    | 0-6"        | ND          | ND   | 24.8              |
| BH3             | 3/3/2022     | 0-6"        | 89.1        | ND      | 31.6              |  |  |  | H5              | 3/18/2022    | 1'          | ND          | ND   | 153               |
| BH3             | 3/3/2022     | 1'          | 214         | ND      | 1390              |  |  |  | H6              | 3/18/2022    | 0-6"        | ND          | ND   | 31.4              |
| BH3             | 3/3/2022     | 2'          | 114         | ND      | 834               |  |  |  | H6              | 3/18/2022    | 1'          | ND          | ND   | 48.7              |
| BH4             | 3/3/2022     | 0-6"        | ND          | ND      | 2270              |  |  |  | H7              | 3/18/2022    | 0-6"        | ND          | ND   | 26.2              |
| BH4             | 3/3/2022     | 1'          | ND          | ND      | 1110              |  |  |  | H7              | 3/18/2022    | 1'          | ND          | ND   | ND                |
| BH4             | 3/3/2022     | 2'          | ND          | ND      | 2310              |  |  |  | H8              | 3/18/2022    | 0-6"        | ND          | ND   | ND                |
| BH4             | 3/3/2022     | 2.5'        | ND          | ND      | 936               |  |  |  | H8              | 3/18/2022    | 1'          | ND          | ND   | 29.1              |
| BH5             | 3/3/2022     | 0-6"        | ND          | ND      | 117               |  |  |  | H9              | 3/18/2022    | 0-6"        | ND          | ND   | ND                |
| BH5             | 3/3/2022     | 1'          | ND          | ND      | 1780              |  |  |  | H9              | 3/18/2022    | 1'          | ND          | ND   | 19.5              |
| BH5             | 3/3/2022     | 2'          | ND          | ND      | 1120              |  |  |  | H10             | 3/18/2022    | 0-6"        | ND          | ND   | 19.9              |
| BH5             | 3/3/2022     | 2.5'        | ND          | ND      | 969               |  |  |  | H10             | 3/18/2022    | 1'          | ND          | ND   | 16.9              |
| BH6             | 3/3/2022     | 0-6"        | ND          | ND      | 232               |  |  |  | * ND Non Detect |              |             |             |      |                   |
| BH6             | 3/3/2022     | 1'          | ND          | ND      | 1070              |  |  |  |                 |              |             |             |      |                   |
| BH6             | 3/3/2022     | 1.75'       | ND          | ND      | 921               |  |  |  |                 |              |             |             |      |                   |
| T1              | 3/3/2022     | 0-6"        | 1180        | ND      | 344               |  |  |  |                 |              |             |             |      |                   |
| T1              | 3/3/2022     | 2'          | 312         | ND      | 1280              |  |  |  |                 |              |             |             |      |                   |
| T1              | 3/3/2022     | 3'          | 965         | ND      | 738               |  |  |  |                 |              |             |             |      |                   |
| T1              | 3/3/2022     | 4'          | 371         | ND      | 631               |  |  |  |                 |              |             |             |      |                   |
| T1              | 3/3/2022     | 4.5'        | 378         | ND      | 572               |  |  |  |                 |              |             |             |      |                   |
| S1              | 3/18/2022    | 0-6"        | 73.9        | ND      | 57600             |  |  |  |                 |              |             |             |      |                   |
| S1              | 3/18/2022    | 1'          | ND          | ND      | 2560              |  |  |  |                 |              |             |             |      |                   |
| S2              | 3/18/2022    | 0-6"        | ND          | ND      | 7100              |  |  |  |                 |              |             |             |      |                   |
| S2              | 3/18/2022    | 1'          | ND          | ND      | 1100              |  |  |  |                 |              |             |             |      |                   |
| * ND Non Detect |              |             |             |         |                   |  |  |  |                 |              |             |             |      |                   |

## APPENDIX B

CARMONA RESOURCES



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

|                                                   |                                            |
|---------------------------------------------------|--------------------------------------------|
| Name of Company <u>Fasken Oil and Ranch, Ltd.</u> | Contact <u>Jimmy D. Carlile</u>            |
| Address <u>303 W. Wall, Ste 1800 Midland, TX</u>  | Telephone No. <u>432 687-1777</u>          |
| Facility Name <u>Cabot Q SWD</u>                  | Facility Type <u>Battery</u>               |
| Surface Owner <u>State</u>                        | Mineral Owner <u>State</u> Lease No. _____ |

#### LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| L           | 7       | 15S      | 35E   | 1980          | South            | 560           | West           | Lea    |

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

#### NATURE OF RELEASE

|                                                                                                                                          |                                                       |                            |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------|
| Type of Release <u>produced water</u>                                                                                                    | Volume of Release <u>70</u>                           | Volume Recovered <u>20</u> |
| Source of Release <u>battery - tank overflow</u>                                                                                         | Date and Hour of Occurrence                           | Date and Hour of Discovery |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br><u>Larry Johnson's voice mail</u> | <u>4 pm 10/16/06</u>       |
| By Whom? <u>Jimmy D. Carlile</u>                                                                                                         | Date and Hour <u>10/17/06 9 am</u>                    |                            |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                        | If YES, Volume Impacting the Watercourse.             |                            |

If a Watercourse was Impacted, Describe Fully.\*

NA

Describe Cause of Problem and Remedial Action Taken.\*

Check valve on pump plugged causing system to back up and tank to overflow. Check valve was cleaned out and put back in service. Plans are to re-plumb piping to solve this problem from occurring again.

Describe Area Affected and Cleanup Action Taken.\*

Firewall area 75' x 25' area filled and overflowed. Approximately 10 bbls ran on caliche 10' x 100' on pad site. Plans are to mix in 2 loads of chat into the pad to dilute any residual chlorides.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC D rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC D marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC D acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

|                                                  |                                                                  |                                |
|--------------------------------------------------|------------------------------------------------------------------|--------------------------------|
| Signature: <u>Jimmy D. Carlile</u>               | OIL CONSERVATION DIVISION                                        |                                |
| Printed Name: <u>Jimmy D. Carlile</u>            | Approved by District Supervisor: <u>[Signature]</u>              |                                |
| Title: <u>Regulatory Affairs Coord.</u>          | Approval Date: <u>6.5.07</u>                                     | Expiration Date: <u>8.5.07</u> |
| E-mail Address: <u>jimmyc@for1.com</u>           | Conditions of Approval: <u>Attached</u> <input type="checkbox"/> |                                |
| Date: <u>10/17/06</u> Phone: <u>432 687-1777</u> | <u>SUBMIT FINAL REPORT BY</u>                                    |                                |

\* Attach Additional Sheets If Necessary

RPH  
1090

District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

|                 |                                   |               |               |
|-----------------|-----------------------------------|---------------|---------------|
| Name of Company | Fasken Oil and Ranch, Ltd.        | Contact       | Jimmy Carlile |
| Address         | 303 W. Wall, Ste 1800 Midland, TX | Telephone No. | 432 687-1777  |
| Facility Name   | Cabot Q SWD                       | Facility Type | Battery       |
| Surface Owner   | State                             | Mineral Owner | State         |
|                 |                                   | Lease No.     | 30-025-28826  |

#### LOCATION OF RELEASE

|             |         |          |       |               |                  |               |                |        |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| L           | 7       | 15S      | 35E   | 1980          | S                | 560           | W              | Lea    |

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

#### NATURE OF RELEASE

|                             |                                                                                                           |                                          |                 |                            |     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------|----------------------------|-----|
| Type of Release             | produced water                                                                                            | Volume of Release                        | 130             | Volume Recovered           | 120 |
| Source of Release           | injection line                                                                                            | Date and Hour of Occurrence              |                 | Date and Hour of Discovery |     |
| Was Immediate Notice Given? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?                         | 3 pm 3/19/08    | 5 pm 3/19/08               |     |
| By Whom?                    | Jimmy Carlile                                                                                             | Date and Hour                            | 8:15 am 3/20/08 |                            |     |
| Was a Watercourse Reached?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                       | If YES, Volume Impacting the Watercourse |                 |                            |     |

If a Watercourse was Impacted, Describe Fully.\*

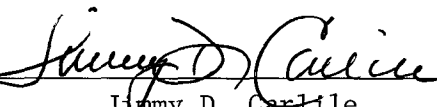
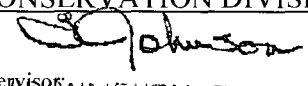
Describe Cause of Problem and Remedial Action Taken.\*

Pump vibration caused the injection line to come loose. Line re-applied and tightened.

Describe Area Affected and Cleanup Action Taken.\*

Firewall inside tank battery area. No fluid escaped the firewall.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

|                                                                                                |                                                                                                                        |                          |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Signature:  | OIL CONSERVATION DIVISION                                                                                              |                          |
| Printed Name: Jimmy D. Carlile                                                                 | Approved by District Supervisor:  |                          |
| Title: Regulatory Affairs                                                                      | ENVIRONMENTAL ENGINEER                                                                                                 |                          |
| E-mail Address: jimmyc@for1.com                                                                | Approval Date: 3-26-08                                                                                                 | Expiration Date: 5-26-08 |
| Date: 3/20/08 Phone: 432687-1777                                                               | Conditions of Approval:<br>VERTICAL DELINEATION IS<br>REQUIRED DUE TO WATER DEPTH                                      |                          |
|                                                                                                | Attached <input type="checkbox"/> 1 RP# 1825                                                                           |                          |

\* Attach Additional Sheets If Necessary

fcohd 808 731166

District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
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1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

OPERATOR ☒ Initial Report ☐ Final Report

|                 |                                    |               |                  |
|-----------------|------------------------------------|---------------|------------------|
| Name of Company | Fasken Oil and Ranch, Ltd.         | Contact       | Jimmy D. Carlile |
| Address         | 303 W. Wall, Ste 1800, Midland, TX | Telephone No. | 432 687-1777     |
| Facility Name   | Cabot Q SWD                        | Facility Type | SWD              |

|               |       |               |       |           |
|---------------|-------|---------------|-------|-----------|
| Surface Owner | State | Mineral Owner | State | Lease No. |
|---------------|-------|---------------|-------|-----------|

### LOCATION OF RELEASE

|             |         |          |       |               |                  |               |                |        |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| L           | 7       | 15S      | 35E   | 1980          | South            | 560           | West           | Lea    |

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

### NATURE OF RELEASE

|                             |                                                                                                           |                              |                |                            |     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------|----------------|----------------------------|-----|
| Type of Release             | produced water                                                                                            | Volume of Release            | 300            | Volume Recovered           | 280 |
| Source of Release           | tank                                                                                                      | Date and Hour of Occurrence  |                | Date and Hour of Discovery |     |
| Was Immediate Notice Given? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?             | 9 pm 6/7/08    | 9 pm 6/7/08                |     |
| By Whom?                    | Jimmy D. Carlile                                                                                          | Date and Hour                | 1:30 pm 6/8/08 |                            |     |
| Was a Watercourse Reached?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                       | If YES, Volume Impacting the | Watercourse    |                            |     |

If a Watercourse was Impacted, Describe Fully.\*

JUN 11 2008  
HOBBS OCD

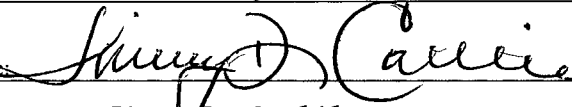
Describe Cause of Problem and Remedial Action Taken.\*

Lightning struck the fiberglass tank and caused the produced water spill. Most of the water was contained inside the bermed area. An area 20' by 70' on the north end of the battery was also affected.

Describe Area Affected and Cleanup Action Taken.\*

20' by 70' on the north end of the battery in the pasture. Produced water that was still standing was vacuumed up.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

|                                                                                                |                                                                                                                        |                                        |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Signature:  | OIL CONSERVATION DIVISION                                                                                              |                                        |
| Printed Name: Jimmy D. Carlile                                                                 | Approved by District Supervisor:  |                                        |
| Title: Regulatory Affairs Coord.                                                               | Approval Date: 6.12.08                                                                                                 | Expiration Date: 8.12.08               |
| E-mail Address: jimmyc@for1.com                                                                | Conditions of Approval:                                                                                                | Attached <input type="checkbox"/> 1825 |
| Date: 6/8/08 Phone: 432 687-1777                                                               | SUBMIT FINAL C-141 BY 1 RP # 1825                                                                                      |                                        |

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

**RECEIVED**

By JKeyes at 2:49 pm, Jun 01, 2016

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action****OPERATOR**☒ Initial Report ☐ Final Report

|                                           |                            |
|-------------------------------------------|----------------------------|
| Name of Company Fasken Oil and Ranch, Ltd | Contact Aaron Pachlhofer   |
| Address 6101 Holiday Hill Road            | Telephone No. 432-687-1777 |
| Facility Name Cabot "Q" SWD No. 1         | Facility Type SWD          |
| Surface Owner Barbie Beer                 | Mineral Owner State        |
| API No. 30-025-022690                     |                            |

**LOCATION OF RELEASE**

|                  |              |                 |              |                       |                           |                      |                        |               |
|------------------|--------------|-----------------|--------------|-----------------------|---------------------------|----------------------|------------------------|---------------|
| Unit Letter<br>L | Section<br>7 | Township<br>15S | Range<br>35E | Feet from the<br>1980 | North/South Line<br>South | Feet from the<br>560 | East/West Line<br>West | County<br>Lea |
|------------------|--------------|-----------------|--------------|-----------------------|---------------------------|----------------------|------------------------|---------------|

Latitude 33.029897° Longitude -103.454002°

**NATURE OF RELEASE**

|                                                                                                                                          |                                                               |                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------|
| Type of Release Produced Water                                                                                                           | Volume of Release 110 BBLs                                    | Volume Recovered 100 BBLs                        |
| Source of Release Injection Line                                                                                                         | Date and Hour of Occurrence<br>5/28/16 8:00 a.m.              | Date and Hour of Discovery<br>5/28/16 10:00 a.m. |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br>Called to NMOCD Emergency line phone line |                                                  |
| By Whom? Aaron Pachlhofer                                                                                                                | Date and Hour 5/28/16 7:00 p.m.                               |                                                  |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                        | If YES, Volume Impacting the Watercourse.                     |                                                  |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Injection line failed near wellhead. Check valve to well head failed and allowed water to flow to surface. All wells shut in. Line repaired on 5/31/16 and service returned..

Describe Area Affected and Cleanup Action Taken.\*

The well pad, interior of the firewall, leases road, and a about 5,000 square feet of pasture were affected by the release. All fluids were removed. Further cleanup is pending scheduling.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

**OIL CONSERVATION DIVISION**

Signature:

Printed Name: Aaron Pachlhofer

Approved by Environmental Specialist: *Jane Keyes*

Title: Environmental Coordinator

Approval Date: 06/01/2016

Expiration Date: 08/01/2016

E-mail Address: aaronj@forl.com

Conditions of Approval:

Discrete samples only. Delineate and remediate per NMOCD guidelines.

Attached ☐  
IRP 4298

Date: 6/1/16 Phone: 432-687-1777

\* Attach Additional Sheets If Necessary

nJXK1615353185  
pJXK1615353302

## APPENDIX C

CARMONA RESOURCES

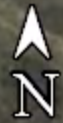
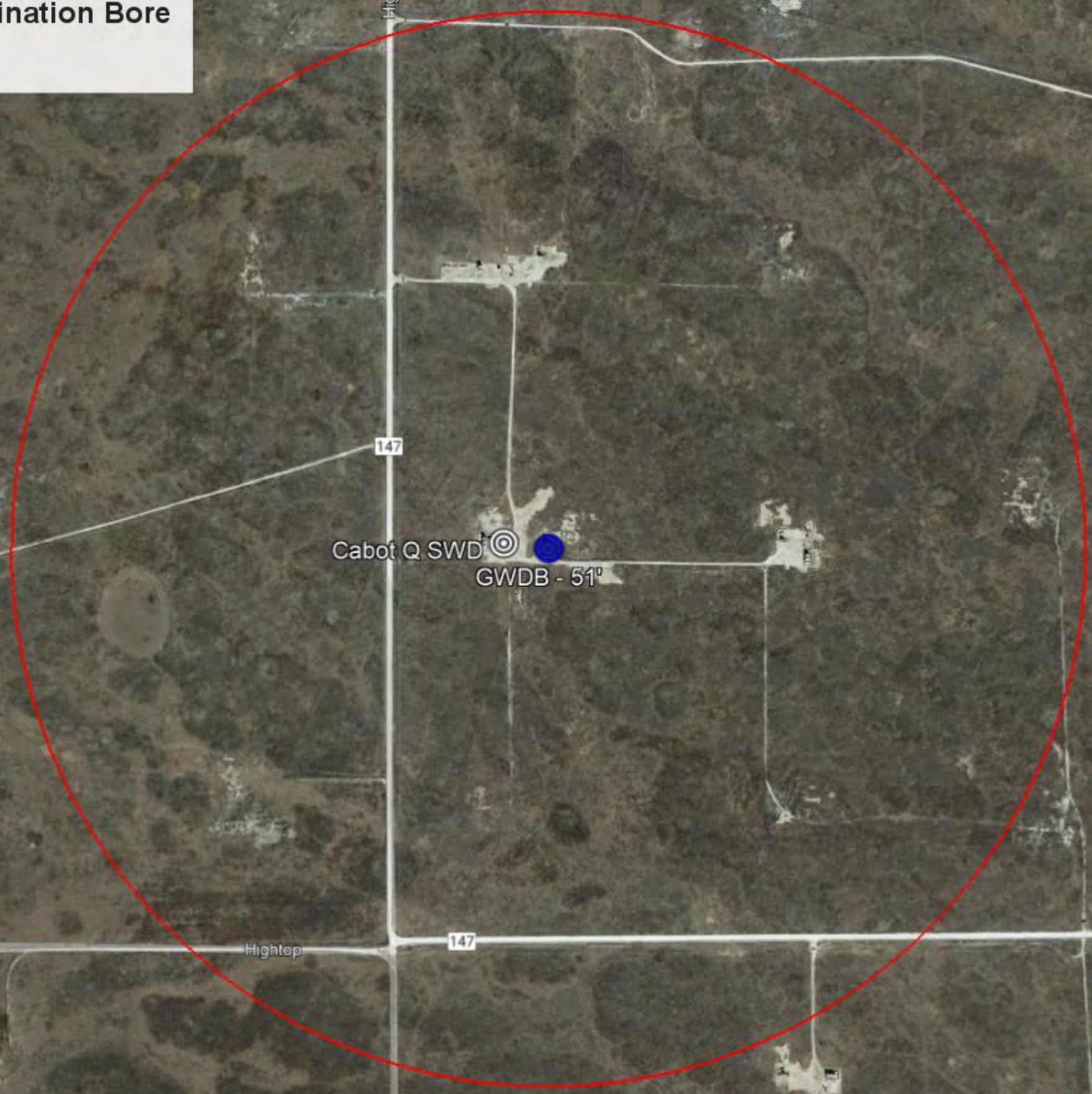


# Groundwater Determination Bore

Faskin Oil and Ranch  
Cabot Q SWD

## Legend

- 0.50 Mile Radius
- Cabot Q SWD
- GWDB - 51'



2000 ft



## Project Name :

Fasken Oil and Ranch Superior State #2

Date : Wednesday, April 20, 2022

Project No. :

1044

Sampler : Lane Scarborough

Location :

Lea County, New Mexico

Coordinates :

33.029823, -103.453124

Driller : Scarborough Drilling

Elevation :

4,047

Method : Air Rotary

| Depth (ft.) | WL | Soil Description                                                                                       | Lithology                                                                           | Depth (ft.) | WL | Soil Description                                                                                           | Lithology                                                                           |
|-------------|----|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|----|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 0           |    | (0'-1') - White well graded gravel, w/ <50% loose, coarse sand and caliche, no organics, dry (GW).     |    | 50          |    | (50'-51') - Light brown well graded gravel, w/ <50% loose, coarse sand and caliche, no organics, dry (GM). |  |
| 5           |    | (5') - Light brown well graded gravel, w/ <50% loose, coarse sand and caliche, no organics, dry (GM).  |    | 55          |    |                                                                                                            |                                                                                     |
| 10          |    | (10') - Light brown well graded gravel, w/ <50% loose, coarse sand and caliche, no organics, dry (GM). |    | 60          |    |                                                                                                            |                                                                                     |
| 15          |    | (15') - Light brown well graded gravel, w/ <50% loose, coarse sand and caliche, no organics, dry (GM). |    | 65          |    |                                                                                                            |                                                                                     |
| 20          |    | (20') - Light brown well graded gravel, w/ <50% loose, coarse sand and caliche, no organics, dry (GM). |    | 70          |    |                                                                                                            |                                                                                     |
| 25          |    | (25') - Light brown well graded gravel, w/ <50% loose, coarse sand and caliche, no organics, dry (GM). |    | 75          |    |                                                                                                            |                                                                                     |
| 30          |    | (30') - Light brown well graded gravel, w/ <50% loose, coarse sand and caliche, no organics, dry (GM). |   | 80          |    |                                                                                                            |                                                                                     |
| 35          |    | (35') - Light brown well graded gravel, w/ <50% loose, coarse sand and caliche, no organics, dry (GM). |  | 85          |    |                                                                                                            |                                                                                     |
| 40          |    | (40') - Light brown well graded gravel, w/ <50% loose, coarse sand and caliche, no organics, dry (GM). |  | 90          |    |                                                                                                            |                                                                                     |
| 45          |    | (45') - Light brown well graded gravel, w/ <50% loose, coarse sand and caliche, no organics, dry (GM). |  | 95          |    |                                                                                                            |                                                                                     |
| 50          |    |                                                                                                        |                                                                                     | 105         |    |                                                                                                            |                                                                                     |

Comments : Boring terminated at 51' with no presence of groundwater or moisture.

72 hours later no presence of groundwater was detected

2001 South Hwy. 87

WELL LOG Cabot Q SWD

GIBBS PRINTING CO.-LAMESA, TX

Nearest water well

Faskin Oil and Ranch  
Cabot Q SWD

**Legend**

- 0.27 Miles
- 0.32 Miles
- 0.37 Miles
- 0.42 Miles
- 0.47 Miles
- 0.50 Mile Radius
- Cabot Q SWD
- NMSEO Water Well

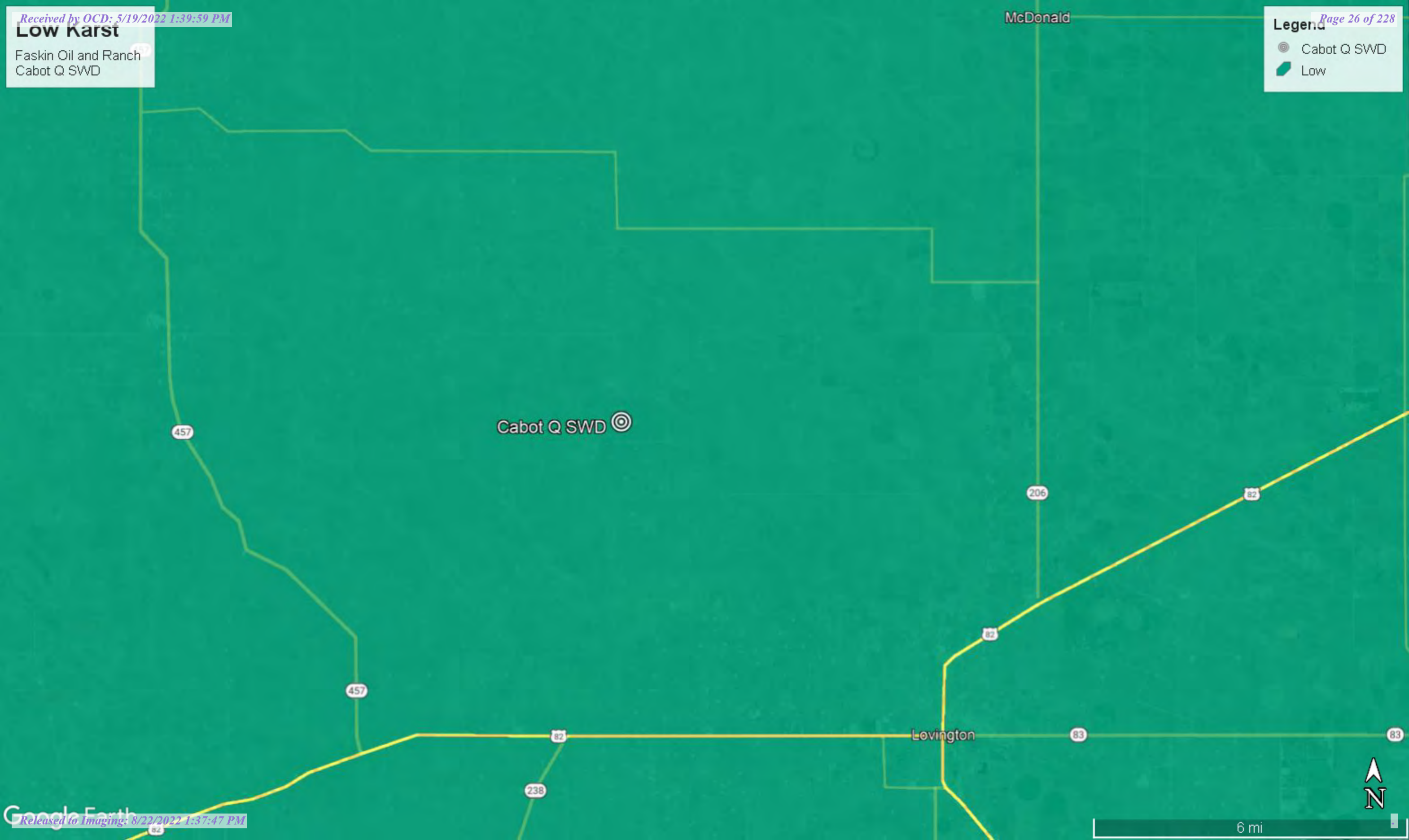


Low Karst

Faskin Oil and Ranch  
Cabot Q SWD

**Legend**

-  Cabot Q SWD
-  Low





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

| POD Number                   | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y        | Depth Well | Depth Water | Water Column |
|------------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|------------|-------------|--------------|
| <a href="#">L 00110</a>      | R            | L     | LE     | 4    | 3    | 35  | 15S | 35E |     | 651384 | 3648949* | 82         | 70          | 12           |
| <a href="#">L 00110 POD3</a> |              | L     | LE     | 3    | 4    | 1   | 35  | 15S | 35E | 651270 | 3649653* | 95         | 45          | 50           |
| <a href="#">L 00110 POD4</a> | R            | L     | LE     | 1    | 1    | 3   | 35  | 15S | 35E | 650874 | 3649443* | 110        | 55          | 55           |
| <a href="#">L 00110 POD5</a> |              | L     | LE     | 2    | 4    | 1   | 35  | 15S | 35E | 651470 | 3649853* | 110        | 55          | 55           |
| <a href="#">L 00110 POD6</a> |              | L     | LE     | 4    | 3    | 35  | 15S | 35E |     | 651384 | 3648949* | 132        | 70          | 62           |
| <a href="#">L 00110 S</a>    |              | L     | LE     | 3    | 3    | 1   | 35  | 15S | 35E | 650867 | 3649646* | 100        |             |              |
| <a href="#">L 00110 S</a>    | R            | L     | LE     | 3    | 3    | 1   | 35  | 15S | 35E | 650867 | 3649646* | 100        |             |              |
| <a href="#">L 00439</a>      |              | L     | LE     | 1    | 1    | 1   | 35  | 15S | 35E | 650861 | 3650249* | 100        |             |              |
| <a href="#">L 00439 POD2</a> |              | L     | LE     | 1    | 1    | 35  | 15S | 35E |     | 650962 | 3650150* | 120        | 40          | 80           |
| <a href="#">L 00534</a>      |              | L     | LE     | 1    | 1    | 2   | 36  | 15S | 35E | 653278 | 3650292* | 105        |             |              |
| <a href="#">L 00534</a>      | R            | L     | LE     | 1    | 1    | 2   | 36  | 15S | 35E | 653278 | 3650292* | 105        |             |              |
| <a href="#">L 00534 POD2</a> | R            | L     | LE     |      | 1    | 36  | 15S | 35E |     | 652781 | 3649976* | 110        | 50          | 60           |
| <a href="#">L 00534 POD3</a> |              | L     | LE     |      | 1    | 36  | 15S | 35E |     | 652781 | 3649976* | 130        | 55          | 75           |
| <a href="#">L 00534 POD3</a> | R            | L     | LE     |      | 1    | 36  | 15S | 35E |     | 652781 | 3649976* | 130        | 55          | 75           |
| <a href="#">L 00534 POD4</a> |              | L     | LE     | 1    | 1    | 1   | 36  | 15S | 35E | 652472 | 3650277* | 187        | 55          | 132          |
| <a href="#">L 00534 POD4</a> | R            | L     | LE     | 1    | 1    | 1   | 36  | 15S | 35E | 652472 | 3650277* | 187        | 55          | 132          |
| <a href="#">L 00534 POD5</a> |              | L     | LE     | 3    | 2    | 36  | 15S | 35E |     | 653386 | 3649790* | 130        | 68          | 62           |
| <a href="#">L 00534 POD5</a> | R            | L     | LE     | 3    | 2    | 36  | 15S | 35E |     | 653386 | 3649790* | 130        | 68          | 62           |
| <a href="#">L 00534 POD6</a> |              | L     | LE     | 3    | 1    | 36  | 15S | 35E |     | 652580 | 3649775* | 153        | 62          | 91           |
| <a href="#">L 00534 POD6</a> | R            | L     | LE     | 3    | 1    | 36  | 15S | 35E |     | 652580 | 3649775* | 153        | 62          | 91           |
| <a href="#">L 00535</a>      |              | L     | LE     | 1    | 1    | 1   | 36  | 15S | 35E | 652472 | 3650277* | 105        | 56          | 49           |
| <a href="#">L 00535</a>      | R            | L     | LE     | 1    | 1    | 1   | 36  | 15S | 35E | 652472 | 3650277* | 105        | 56          | 49           |
| <a href="#">L 00627</a>      |              | L     | LE     | 4    | 2    | 4   | 31  | 15S | 35E | 645838 | 3649144* | 70         | 55          | 15           |
| <a href="#">L 00627 POD3</a> |              | L     | LE     | 1    | 1    | 3   | 32  | 15S | 35E | 646041 | 3649352* | 90         | 60          | 30           |
| <a href="#">L 00627 S</a>    |              | L     | LE     | 2    | 1    | 4   | 31  | 15S | 35E | 645435 | 3649337* |            |             |              |
| <a href="#">L 00674</a>      |              | L     | LE     | 1    | 3    | 3   | 35  | 15S | 35E | 650880 | 3649041* | 69         | 65          | 4            |

\*UTM location was derived from PLSS - see Help

(A CLW##### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

(R=POD has  
been replaced,  
O=orphaned,  
C=the file is  
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

| POD Number                   | POD          |       | Q Q Q  |    |    |    |     |     |        | X        | Y                                                                                   | Depth<br>Well                                                                         | Depth<br>Water                                                                        | Water<br>Column |     |    |
|------------------------------|--------------|-------|--------|----|----|----|-----|-----|--------|----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------|-----|----|
|                              | Sub-<br>Code | basin | County | 64 | 16 | 4  | Sec | Tws | Rng    |          |                                                                                     |                                                                                       |                                                                                       |                 |     |    |
| <a href="#">L 00797 POD2</a> |              | L     | LE     | 1  | 1  | 03 | 15S | 35E | 649227 | 3658168* |  | 126                                                                                   | 40                                                                                    | 86              |     |    |
| <a href="#">L 00797 POD3</a> |              | R     | L      | LE | 3  | 1  | 3   | 02  | 15S    | 35E      | 650746                                                                              | 3657295*                                                                              |    | 135             | 70  | 65 |
| <a href="#">L 00797 POD4</a> |              |       | L      | LE | 2  | 4  | 4   | 03  | 15S    | 35E      | 650549                                                                              | 3657084*                                                                              |    | 138             | 40  | 98 |
| <a href="#">L 00797 POD5</a> |              |       | L      | LE | 1  | 3  | 02  | 15S | 35E    | 650847   | 3657396*                                                                            |    | 136                                                                                   | 75              | 61  |    |
| <a href="#">L 00797 S</a>    |              |       | L      | LE |    | 1  | 03  | 15S | 35E    | 649433   | 3657967*                                                                            |    | 130                                                                                   | 49              | 81  |    |
| <a href="#">L 01074</a>      |              |       | L      | LE | 1  | 3  | 3   | 35  | 15S    | 35E      | 650880                                                                              | 3649041*                                                                              |    | 79              | 45  | 34 |
| <a href="#">L 01165 POD1</a> |              |       | L      | LE | 3  | 4  | 3   | 02  | 15S    | 35E      | 651154                                                                              | 3656900*                                                                              |    | 90              | 70  | 20 |
| <a href="#">L 01167 POD1</a> |              |       | L      | LE | 3  | 4  | 3   | 02  | 15S    | 35E      | 651154                                                                              | 3656900*                                                                              |    | 105             | 90  | 15 |
| <a href="#">L 01168 POD1</a> |              |       | L      | LE | 1  | 1  | 2   | 03  | 15S    | 35E      | 649930                                                                              | 3658283*                                                                              |    | 90              | 70  | 20 |
| <a href="#">L 01169 POD1</a> |              |       | L      | LE | 3  | 1  | 3   | 04  | 15S    | 35E      | 647526                                                                              | 3657232*                                                                              |    | 90              | 70  | 20 |
| <a href="#">L 01170 POD1</a> |              |       | L      | LE | 1  | 1  | 4   | 08  | 15S    | 35E      | 646746                                                                              | 3655806*                                                                              |    | 90              | 70  | 20 |
| <a href="#">L 01699 POD2</a> |              |       | L      | LE | 2  | 3  | 4   | 36  | 15S    | 35E      | 653499                                                                              | 3649084*                                                                              |    | 100             | 53  | 47 |
| <a href="#">L 01700 POD1</a> |              |       | L      | LE | 2  | 3  | 4   | 36  | 15S    | 35E      | 653499                                                                              | 3649084*                                                                              |  | 90              | 60  | 30 |
| <a href="#">L 01726</a>      |              |       | L      | LE | 2  | 2  | 33  | 15S | 35E    | 648946   | 3650110*                                                                            |  | 125                                                                                   | 60              | 65  |    |
| <a href="#">L 01727</a>      |              |       | L      | LE | 1  | 1  | 33  | 15S | 35E    | 647739   | 3650088*                                                                            |  | 130                                                                                   | 60              | 70  |    |
| <a href="#">L 01727</a>      |              | R     | L      | LE | 1  | 1  | 33  | 15S | 35E    | 647739   | 3650088*                                                                            |  | 130                                                                                   | 60              | 70  |    |
| <a href="#">L 01728</a>      |              |       | L      | LE | 1  | 1  | 28  | 15S | 35E    | 647714   | 3651699*                                                                            |  | 100                                                                                   | 45              | 55  |    |
| <a href="#">L 01728</a>      |              | R     | L      | LE | 1  | 1  | 28  | 15S | 35E    | 647714   | 3651699*                                                                            |  | 100                                                                                   | 45              | 55  |    |
| <a href="#">L 01729</a>      |              |       | L      | LE | 1  | 4  | 35  | 15S | 35E    | 651781   | 3649359*                                                                            |  | 210                                                                                   | 58              | 152 |    |
| <a href="#">L 01729</a>      |              | R     | L      | LE | 1  | 4  | 35  | 15S | 35E    | 651781   | 3649359*                                                                            |  | 210                                                                                   | 58              | 152 |    |
| <a href="#">L 01730</a>      |              |       | L      | LE |    | 4  | 36  | 15S | 35E    | 653601   | 3649186*                                                                            |  | 210                                                                                   | 60              | 150 |    |
| <a href="#">L 01730</a>      |              | R     | L      | LE |    | 4  | 36  | 15S | 35E    | 653601   | 3649186*                                                                            |  | 210                                                                                   | 60              | 150 |    |
| <a href="#">L 01731</a>      |              |       | L      | LE | 3  | 1  | 21  | 15S | 35E    | 647695   | 3652906*                                                                            |  | 100                                                                                   | 42              | 58  |    |
| <a href="#">L 01731</a>      |              | R     | L      | LE | 3  | 1  | 21  | 15S | 35E    | 647695   | 3652906*                                                                            |  | 100                                                                                   | 42              | 58  |    |
| <a href="#">L 01795</a>      |              |       | L      | LE | 4  | 2  | 1   | 03  | 15S    | 35E      | 649728                                                                              | 3658075*                                                                              |  | 127             | 62  | 65 |
| <a href="#">L 02957</a>      |              |       | L      | LE | 3  | 1  | 33  | 15S | 35E    | 647745   | 3649686*                                                                            |  | 120                                                                                   | 65              | 55  |    |
| <a href="#">L 03018</a>      |              |       | L      | LE | 1  | 3  | 33  | 15S | 35E    | 647752   | 3649283*                                                                            |  | 116                                                                                   | 50              | 66  |    |
| <a href="#">L 03058</a>      |              |       | L      | LE | 3  | 3  | 31  | 15S | 35E    | 644525   | 3648820*                                                                            |  | 85                                                                                    | 71              | 14  |    |
| <a href="#">L 03083</a>      |              |       | L      | LE | 3  | 3  | 31  | 15S | 35E    | 644525   | 3648820*                                                                            |  | 85                                                                                    | 73              | 12  |    |

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|----------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|------------|-------------|--------------|
| <a href="#">L 03122</a>    | L            | LE    |        | 4    | 2    | 3   | 32  | 15S | 35E | 646643 | 3649159* | 138        | 70          | 68           |
| <a href="#">L 03129</a>    | L            | LE    |        |      |      |     | 07  | 15S | 35E | 645037 | 3655857* | 120        | 60          | 60           |
| <a href="#">L 03141</a>    | L            | LE    |        | 2    | 3    | 3   | 31  | 15S | 35E | 644624 | 3648919* | 130        | 65          | 65           |
| <a href="#">L 03220</a>    | L            | LE    |        |      | 3    | 3   | 12  | 15S | 35E | 652489 | 3655412* | 110        | 50          | 60           |
| <a href="#">L 04427</a>    | L            | LE    |        |      | 4    | 2   | 22  | 15S | 35E | 650513 | 3652960* | 125        | 55          | 70           |
| <a href="#">L 04614</a>    | L            | LE    |        | 4    | 2    | 2   | 25  | 15S | 35E | 653854 | 3651710* | 95         | 63          | 32           |
| <a href="#">L 04784</a>    | L            | LE    |        | 2    | 4    | 4   | 25  | 15S | 35E | 653875 | 3650702* | 90         | 58          | 32           |
| <a href="#">L 04894</a>    | L            | LE    |        |      | 3    | 3   | 25  | 15S | 35E | 652566 | 3650580* | 95         | 52          | 43           |
| <a href="#">L 04900</a>    | L            | LE    |        | 3    | 1    | 3   | 25  | 15S | 35E | 652458 | 3650882* | 105        | 55          | 50           |
| <a href="#">L 04900 X</a>  | L            | LE    |        | 3    | 2    | 3   | 25  | 15S | 35E | 652861 | 3650890* | 160        | 72          | 88           |
| <a href="#">L 04923</a>    | L            | LE    |        | 4    | 4    | 1   | 12  | 15S | 35E | 652963 | 3656057  | 115        | 64          | 51           |
| <a href="#">L 04923 S</a>  | L            | LE    |        | 3    | 4    | 2   | 11  | 15S | 35E | 651962 | 3656130  | 120        | 100         | 20           |
| <a href="#">L 04934</a>    | L            | LE    |        |      |      | 1   | 01  | 15S | 35E | 652653 | 3658029* | 100        | 48          | 52           |
| <a href="#">L 04934 S</a>  | L            | LE    |        | 3    | 3    | 2   | 01  | 15S | 35E | 653155 | 3657741* | 89         | 49          | 40           |
| <a href="#">L 04934 S2</a> | L            | LE    |        |      | 3    |     | 01  | 15S | 35E | 652664 | 3657223* | 100        | 45          | 55           |
| <a href="#">L 04972</a>    | L            | LE    |        |      |      |     | 03  | 15S | 35E | 649845 | 3657564* | 124        | 45          | 79           |
| <a href="#">L 05215</a>    | L            | LE    |        |      | 4    | 2   | 01  | 15S | 35E | 653659 | 3657849* | 60         | 44          | 16           |
| <a href="#">L 05469</a>    | L            | LE    |        | 4    | 2    | 4   | 34  | 15S | 35E | 650670 | 3649236* | 134        | 68          | 66           |
| <a href="#">L 05817</a>    | L            | LE    |        |      | 2    | 2   | 36  | 15S | 35E | 653782 | 3650201* | 128        | 65          | 63           |
| <a href="#">L 05988</a>    | L            | LE    |        |      | 4    | 4   | 25  | 15S | 35E | 653776 | 3650603* | 90         | 60          | 30           |
| <a href="#">L 06042</a>    | L            | LE    |        |      | 3    | 3   | 33  | 15S | 35E | 647758 | 3648881* | 92         | 52          | 40           |
| <a href="#">L 06046</a>    | L            | LE    |        | 3    | 3    | 3   | 07  | 15S | 35E | 644333 | 3655153* | 104        | 56          | 48           |
| <a href="#">L 06158</a>    | L            | LE    |        |      | 3    | 4   | 27  | 15S | 35E | 650149 | 3650536* | 118        | 46          | 72           |
| <a href="#">L 06376</a>    | L            | LE    |        |      | 2    | 1   | 06  | 15S | 35E | 644801 | 3658080* | 120        | 58          | 62           |
| <a href="#">L 06716</a>    | L            | LE    |        |      |      | 4   | 28  | 15S | 35E | 648738 | 3650707* | 90         | 55          | 35           |
| <a href="#">L 06739</a>    | L            | LE    |        | 2    | 4    | 4   | 01  | 15S | 35E | 653769 | 3657142* | 92         | 51          | 41           |
| <a href="#">L 06755</a>    | L            | LE    |        | 2    | 4    | 3   | 04  | 15S | 35E | 648134 | 3657037* | 130        | 51          | 79           |
| <a href="#">L 06991</a>    | L            | LE    |        | 4    | 1    | 3   | 24  | 15S | 35E | 652631 | 3652493* | 120        | 50          | 70           |
| <a href="#">L 07136</a>    | L            | LE    |        |      | 1    | 2   | 13  | 15S | 35E | 653301 | 3655024* | 120        | 58          | 62           |

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|------------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|------------|-------------|--------------|
| <a href="#">L 07358</a>      | L            | LE    |        | 4    | 34   | 15S | 35E |     |     | 650375 | 3649127* | 73         | 55          | 18           |
| <a href="#">L 07413</a>      | L            | LE    |        | 1    | 3    | 28  | 15S | 35E |     | 657262 | 3651057  | 100        | 65          | 35           |
| <a href="#">L 07413</a>      | R            | L     | LE     | 1    | 3    | 28  | 15S | 35E |     | 657262 | 3651057  | 100        | 65          | 35           |
| <a href="#">L 07508</a>      | L            | LE    |        | 4    | 2    | 33  | 15S | 35E |     | 648953 | 3649708* | 95         | 61          | 34           |
| <a href="#">L 07753</a>      | L            | LE    |        | 4    | 2    | 3   | 27  | 15S | 35E | 649838 | 3650830* | 143        | 56          | 87           |
| <a href="#">L 08143</a>      | L            | LE    |        | 4    | 3    | 35  | 15S | 35E |     | 651384 | 3648949* | 130        | 52          | 78           |
| <a href="#">L 08530 POD2</a> | L            | LE    |        | 1    | 1    | 2   | 13  | 15S | 35E | 652312 | 3655137  | 146        | 58          | 88           |
| <a href="#">L 08542</a>      | L            | LE    |        | 2    | 1    | 3   | 13  | 15S | 35E | 653252 | 3654659  | 141        | 58          | 83           |
| <a href="#">L 08849</a>      | L            | LE    |        | 4    | 4    | 3   | 35  | 15S | 35E | 651483 | 3648848* | 114        | 61          | 53           |
| <a href="#">L 09369</a>      | L            | LE    |        | 1    | 1    | 3   | 13  | 15S | 35E | 652459 | 3655967  | 102        | 58          | 44           |
| <a href="#">L 09372</a>      | L            | LE    |        | 2    | 3    | 07  | 15S | 35E |     | 644835 | 3655666* | 150        | 75          | 75           |
| <a href="#">L 09523</a>      | L            | LE    |        | 1    | 1    | 4   | 07  | 15S | 35E | 645136 | 3655773* | 140        | 57          | 83           |
| <a href="#">L 09555</a>      | L            | LE    |        | 4    | 3    | 07  | 15S | 35E |     | 644842 | 3655263* | 150        | 54          | 96           |
| <a href="#">L 09582</a>      | L            | LE    |        | 1    | 1    | 35  | 15S | 35E |     | 650962 | 3650150* | 99         | 65          | 34           |
| <a href="#">L 09817</a>      | L            | LE    |        | 4    | 1    | 32  | 15S | 35E |     | 646538 | 3649663* | 130        | 65          | 65           |
| <a href="#">L 09856</a>      | L            | LE    |        | 3    | 3    | 1   | 16  | 15S | 35E | 647569 | 3654415* | 150        | 65          | 85           |
| <a href="#">L 09897</a>      | L            | LE    |        |      |      | 27  | 15S | 35E |     | 649945 | 3651123* | 190        | 55          | 135          |
| <a href="#">L 09900</a>      | L            | LE    |        |      |      | 35  | 15S | 35E |     | 651584 | 3649545* | 110        |             |              |
| <a href="#">L 10000</a>      | L            | LE    |        |      |      | 35  | 15S | 35E |     | 651584 | 3649545* | 125        | 64          | 61           |
| <a href="#">L 10036</a>      | L            | LE    |        | 1    |      | 35  | 15S | 35E |     | 651169 | 3649948* | 140        | 70          | 70           |
| <a href="#">L 10039</a>      | R            | L     | LE     | 2    | 13   | 15S | 35E |     |     | 653509 | 3654823* | 82         | 60          | 22           |
| <a href="#">L 10039 POD2</a> | L            | LE    |        | 1    | 3    | 2   | 13  | 15S | 35E | 653229 | 3654638  | 195        | 65          | 130          |
| <a href="#">L 10114</a>      | L            | LE    |        | 4    | 3    | 2   | 05  | 15S | 35E | 646846 | 3657698  | 175        |             |              |
| <a href="#">L 10120</a>      | L            | LE    |        | 3    | 4    | 2   | 34  | 15S | 35E | 650464 | 3649638* | 126        | 54          | 72           |
| <a href="#">L 10243</a>      | L            | LE    |        | 3    | 3    | 4   | 33  | 15S | 35E | 648462 | 3648794* | 120        | 69          | 51           |
| <a href="#">L 10287</a>      | R            | L     | LE     | 1    | 4    | 19  | 15S | 35E |     | 645287 | 3652456* | 180        | 60          | 120          |
| <a href="#">L 10287 POD2</a> | L            | LE    |        | 1    | 1    | 4   | 19  | 15S | 35E | 645186 | 3652555* | 182        | 56          | 126          |
| <a href="#">L 10307</a>      | L            | LE    |        | 2    | 2    | 2   | 36  | 15S | 35E | 653881 | 3650300* | 120        | 120         | 0            |
| <a href="#">L 10308</a>      | L            | LE    |        | 2    | 2    | 36  | 15S | 35E |     | 653782 | 3650201* | 120        | 120         | 0            |

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| <a href="#">L 10357</a>      | L            | LE    |        | 1    | 4    | 1   | 35  | 15S | 35E | 651270 | 3649853* | 120        | 55          | 65           |
| <a href="#">L 10372</a>      | L            | LE    |        |      |      | 3   | 35  | 15S | 35E | 651182 | 3649143* | 100        | 55          | 45           |
| <a href="#">L 10381</a>      | L            | LE    |        |      | 3    | 4   | 30  | 15S | 35E | 645317 | 3650445* | 175        | 60          | 115          |
| <a href="#">L 10441</a>      | L            | LE    |        | 1    | 4    | 3   | 35  | 15S | 35E | 651283 | 3649048* | 100        | 55          | 45           |
| <a href="#">L 10522</a>      | L            | LE    |        |      | 3    | 2   | 36  | 15S | 35E | 653386 | 3649790* | 150        | 65          | 85           |
| <a href="#">L 10563</a>      | L            | LE    |        | 3    | 1    | 2   | 05  | 15S | 35E | 646711 | 3658021* | 175        | 65          | 110          |
| <a href="#">L 10636</a>      | L            | LE    |        | 2    | 2    | 1   | 35  | 15S | 35E | 651464 | 3650256* | 92         | 58          | 34           |
| <a href="#">L 10670</a>      | L            | LE    |        |      | 4    | 2   | 36  | 15S | 35E | 653789 | 3649798* | 100        | 62          | 38           |
| <a href="#">L 10674</a>      | L            | LE    |        |      | 3    | 3   | 35  | 15S | 35E | 650981 | 3648942* | 115        |             |              |
| <a href="#">L 10754</a>      | L            | LE    |        |      |      | 1   | 35  | 15S | 35E | 651169 | 3649948* | 150        | 60          | 90           |
| <a href="#">L 10796</a>      | L            | LE    |        | 4    | 3    | 1   | 28  | 15S | 35E | 647819 | 3651195* | 180        | 70          | 110          |
| <a href="#">L 10843</a>      | L            | LE    |        |      | 4    | 2   | 36  | 15S | 35E | 653789 | 3649798* | 130        | 69          | 61           |
| <a href="#">L 10851</a>      | L            | LE    |        |      |      | 2   | 36  | 15S | 35E | 653587 | 3649991* | 100        | 60          | 40           |
| <a href="#">L 10935</a>      | L            | LE    |        |      |      |     | 35  | 15S | 35E | 651584 | 3649545* | 120        | 60          | 60           |
| <a href="#">L 11040</a>      | L            | LE    |        | 3    | 1    | 1   | 35  | 15S | 35E | 650861 | 3650049* | 100        | 55          | 45           |
| <a href="#">L 11187</a>      | L            | LE    |        |      | 4    | 2   | 36  | 15S | 35E | 653789 | 3649798* | 110        | 62          | 48           |
| <a href="#">L 11221</a>      | L            | LE    |        | 2    | 1    | 1   | 33  | 15S | 35E | 647838 | 3650187* | 176        |             |              |
| <a href="#">L 11246</a>      | L            | LE    |        | 2    | 1    | 2   | 13  | 15S | 35E | 653291 | 3654603  | 208        | 50          | 158          |
| <a href="#">L 11251</a>      | L            | LE    |        | 4    | 4    | 1   | 34  | 15S | 35E | 649857 | 3649622* | 155        |             |              |
| <a href="#">L 11266</a>      | L            | LE    |        | 2    | 4    | 2   | 32  | 15S | 35E | 647352 | 3649825  | 170        |             |              |
| <a href="#">L 11350</a>      | L            | LE    |        |      | 3    | 2   | 36  | 15S | 35E | 653386 | 3649790* | 200        | 57          | 143          |
| <a href="#">L 11364</a>      | L            | LE    |        |      | 1    | 1   | 35  | 15S | 35E | 650962 | 3650150* | 180        | 55          | 125          |
| <a href="#">L 11400</a>      | L            | LE    |        | 3    | 4    | 3   | 01  | 15S | 35E | 652764 | 3656928* | 178        | 55          | 123          |
| <a href="#">L 11612</a>      | L            | LE    |        | 3    | 2    | 3   | 35  | 15S | 35E | 651277 | 3649250* | 100        | 54          | 46           |
| <a href="#">L 11660</a>      | L            | LE    |        | 3    | 4    | 1   | 14  | 15S | 35E | 651144 | 3654584  | 172        | 48          | 124          |
| <a href="#">L 12194 POD1</a> | L            | LE    |        | 3    | 2    | 1   | 35  | 15S | 35E | 651328 | 3650154  | 200        |             |              |
| <a href="#">L 12301 POD1</a> | L            | LE    |        | 3    | 3    | 3   | 35  | 15S | 35E | 650858 | 3648951  | 123        | 54          | 69           |
| <a href="#">L 12313 POD1</a> | L            | LE    |        | 3    | 2    | 1   | 35  | 15S | 35E | 651307 | 3650141  | 200        |             |              |
| <a href="#">L 12416 POD1</a> | L            | LE    |        | 4    | 2    | 4   | 36  | 15S | 35E | 653839 | 3649354  | 120        | 62          | 58           |

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(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

| POD Number                   | POD<br>Sub-<br>Code | basin | County | Q<br>64 | Q<br>16 | Q<br>4 | Sec | Tws | Rng | X      | Y       | Depth<br>Well | Depth<br>Water | Water<br>Column |
|------------------------------|---------------------|-------|--------|---------|---------|--------|-----|-----|-----|--------|---------|---------------|----------------|-----------------|
| <a href="#">L 12427 POD1</a> | L                   | LE    |        | 2       | 4       | 2      | 36  | 15S | 35E | 653864 | 3649839 | 160           | 75             | 85              |
| <a href="#">L 12540 POD1</a> | L                   | LE    |        | 2       | 4       | 3      | 36  | 15S | 35E | 654086 | 3649106 | 175           |                |                 |
| <a href="#">L 12603 POD1</a> | L                   | LE    |        | 1       | 2       | 4      | 36  | 15S | 35E | 653636 | 3649533 | 140           | 59             | 81              |
| <a href="#">L 12627 POD1</a> | L                   | LE    |        | 4       | 4       | 4      | 01  | 15S | 35E | 653731 | 3656869 | 190           | 80             | 110             |
| <a href="#">L 12634 POD1</a> | L                   | LE    |        | 1       | 2       | 4      | 35  | 15S | 35E | 652103 | 3649398 | 150           | 78             | 72              |
| <a href="#">L 12741 POD1</a> | L                   | LE    |        | 2       | 3       | 4      | 36  | 15S | 35E | 653500 | 3649076 | 161           | 70             | 91              |
| <a href="#">L 12752 POD1</a> | L                   | LE    |        | 2       | 3       | 1      | 35  | 15S | 35E | 669401 | 3665038 | 200           | 114            | 86              |
| <a href="#">L 12802 POD1</a> | L                   | LE    |        | 4       | 1       | 2      | 36  | 15S | 35E | 653428 | 3650007 | 160           | 82             | 78              |
| <a href="#">L 12844 POD1</a> | L                   | LE    |        | 4       | 4       | 4      | 35  | 15S | 35E | 652301 | 3648878 | 150           | 60             | 90              |
| <a href="#">L 12850 POD1</a> | L                   | LE    |        | 3       | 3       | 4      | 35  | 15S | 35E | 651618 | 3648864 | 140           | 59             | 81              |
| <a href="#">L 12897 POD1</a> | L                   | LE    |        | 1       | 4       | 3      | 36  | 15S | 35E | 654181 | 3648803 | 210           | 54             | 156             |
| <a href="#">L 12960 POD1</a> | L                   | LE    |        | 4       | 3       | 3      | 36  | 15S | 35E | 652591 | 3648898 | 160           | 80             | 80              |
| <a href="#">L 12975 POD1</a> | L                   | LE    |        | 3       | 4       | 4      | 35  | 15S | 35E | 652007 | 3648867 | 110           | 57             | 53              |
| <a href="#">L 13126 POD1</a> | L                   | LE    |        | 1       | 3       | 3      | 36  | 15S | 35E | 652472 | 3649395 | 160           | 50             | 110             |
| <a href="#">L 13160 POD1</a> | L                   | LE    |        | 1       | 2       | 3      | 36  | 15S | 35E | 652915 | 3649473 | 160           | 53             | 107             |
| <a href="#">L 13173 POD1</a> | L                   | LE    |        |         | 2       | 33     | 15S | 35E |     | 648540 | 3650040 | 28            |                |                 |
| <a href="#">L 13173 POD2</a> | L                   | LE    |        |         | 2       | 33     | 15S | 35E |     | 648524 | 3650040 | 38            |                |                 |
| <a href="#">L 13177 POD1</a> | L                   | LE    |        | 2       | 3       | 2      | 36  | 15S | 35E | 653770 | 3649406 | 160           | 70             | 90              |
| <a href="#">L 13218 POD1</a> | L                   | LE    |        | 1       | 1       | 3      | 34  | 15S | 35E | 649278 | 3649385 | 70            |                |                 |
| <a href="#">L 13218 POD2</a> | L                   | LE    |        | 4       | 1       | 3      | 34  | 15S | 35E | 649441 | 3649314 | 70            |                |                 |
| <a href="#">L 13218 POD3</a> | L                   | LE    |        | 2       | 1       | 3      | 34  | 15S | 35E | 649425 | 3649370 | 72            |                |                 |
| <a href="#">L 13218 POD4</a> | L                   | LE    |        | 3       | 1       | 3      | 34  | 15S | 35E | 649314 | 3649240 | 68            |                |                 |
| <a href="#">L 13218 POD5</a> | L                   | LE    |        | 3       | 1       | 3      | 34  | 15S | 35E | 649401 | 3649266 | 70            |                |                 |
| <a href="#">L 13218 POD6</a> | L                   | LE    |        | 3       | 1       | 2      | 34  | 15S | 35E | 649507 | 3649343 | 70            |                |                 |
| <a href="#">L 13282 POD1</a> | L                   | LE    |        | 4       | 3       | 3      | 35  | 15S | 35E | 650975 | 3648829 | 211           |                |                 |
| <a href="#">L 13283 POD1</a> | L                   | LE    |        | 4       | 1       | 4      | 36  | 15S | 35E | 653483 | 3649396 | 160           | 60             | 100             |
| <a href="#">L 13299 POD1</a> | L                   | LE    |        | 3       | 3       | 1      | 35  | 15S | 35E | 650815 | 3649579 | 160           | 70             | 90              |
| <a href="#">L 13339 POD1</a> | L                   | LE    |        | 3       | 2       | 2      | 07  | 15S | 35E | 645559 | 3656331 | 21            |                |                 |
| <a href="#">L 13448</a>      | L                   | LE    |        | 3       | 4       | 4      | 35  | 15S | 35E | 652115 | 3648949 | 202           | 60             | 142             |

(A CLW##### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

(R=POD has  
been replaced,  
O=orphaned,  
C=the file is  
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

| POD Number                    | POD<br>Sub-<br>Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng    | X        | Y                                                                                     | Depth<br>Well | Depth<br>Water | Water<br>Column |
|-------------------------------|---------------------|-------|--------|------|------|-----|-----|-----|--------|----------|---------------------------------------------------------------------------------------|---------------|----------------|-----------------|
| <a href="#">L 13460 POD 1</a> | L                   | LE    | 1      | 2    | 3    | 23  | 15S | 35E | 651547 | 3653133  |    | 155           | 60             | 95              |
| <a href="#">L 13562 POD1</a>  | L                   | LE    | 2      | 2    | 2    | 36  | 15S | 35E | 653876 | 3650264  |    | 150           | 63             | 87              |
| <a href="#">L 13580 POD1</a>  | L                   | LE    | 2      | 3    | 4    | 35  | 15S | 35E | 651583 | 3649095  |    | 168           | 70             | 98              |
| <a href="#">L 13596 POD1</a>  | L                   | LE    | 4      | 3    | 4    | 35  | 15S | 35E | 651815 | 3648904  |    | 164           | 70             | 94              |
| <a href="#">L 13702 POD1</a>  | L                   | LE    | 2      | 2    | 4    | 35  | 15S | 35E | 652206 | 3649471  |    | 167           | 70             | 97              |
| <a href="#">L 13729 POD1</a>  | L                   | LE    | 4      | 1    | 2    | 33  | 15S | 35E | 648575 | 3650007  |    | 65            |                |                 |
| <a href="#">L 13774 POD1</a>  | L                   | LE    | 1      | 3    | 4    | 35  | 15S | 35E | 651630 | 3649147  |    | 168           | 70             | 98              |
| <a href="#">L 13956 POD1</a>  | L                   | LE    | 1      | 3    | 4    | 35  | 15S | 35E | 651725 | 3648971  |    | 170           | 60             | 110             |
| <a href="#">L 14040 POD1</a>  | L                   | LE    | 4      | 3    | 1    | 35  | 15S | 35E | 651073 | 3649706  |    | 120           | 55             | 65              |
| <a href="#">L 14096 POD1</a>  | L                   | LE    | 3      | 2    | 4    | 31  | 15S | 35E | 645607 | 3649092  |    | 171           | 50             | 121             |
| <a href="#">L 14235 POD1</a>  | L                   | LE    | 2      | 2    | 4    | 36  | 15S | 35E | 653937 | 3649565  |    | 186           | 125            | 61              |
| <a href="#">L 14253 POD1</a>  | L                   | LE    | 3      | 2    | 4    | 36  | 15S | 35E | 653741 | 3649285  |    | 160           | 78             | 82              |
| <a href="#">L 14262 POD1</a>  | L                   | LE    | 2      | 1    | 3    | 36  | 15S | 35E | 652738 | 3649485  |  | 150           | 65             | 85              |
| <a href="#">L 14351 POD1</a>  | L                   | LE    | 2      | 4    | 1    | 35  | 15S | 35E | 651538 | 3649806  |  | 180           | 93             | 87              |
| <a href="#">L 14465 POD1</a>  | L                   | LE    | 1      | 3    | 1    | 36  | 15S | 35E | 652524 | 3649882  |  | 180           | 58             | 122             |
| <a href="#">L 14481 POD1</a>  | L                   | LE    | 1      | 2    | 2    | 24  | 15S | 35E | 653791 | 3653537  |  | 238           | 60             | 178             |
| <a href="#">L 14481 POD2</a>  | L                   | LE    | 4      | 2    | 2    | 24  | 15S | 35E | 653873 | 3653292  |  | 252           | 60             | 192             |
| <a href="#">L 14879 POD1</a>  | L                   | LE    | 2      | 3    | 1    | 35  | 15S | 35E | 651360 | 3629985  |  | 160           | 55             | 105             |
| <a href="#">L 14901 POD1</a>  | L                   | LE    | 3      | 4    | 1    | 35  | 15S | 35E | 651307 | 3649679  |  | 160           | 55             | 105             |
| <a href="#">L 15025 POD1</a>  | L                   | LE    | 1      | 2    | 3    | 36  | 15S | 35E | 652894 | 3649488  |  | 160           | 68             | 92              |
| <a href="#">L 15070 POD1</a>  | L                   | LE    | 3      | 4    | 3    | 36  | 15S | 35E | 652876 | 3648933  |  | 175           | 68             | 107             |
| <a href="#">L 15090 POD1</a>  | L                   | LE    | 4      | 4    | 4    | 31  | 15S | 35E | 645913 | 3648726  |  | 200           | 80             | 120             |
| <a href="#">L 15090 POD2</a>  | L                   | LE    | 4      | 4    | 4    | 31  | 15S | 35E | 645803 | 3648784  |  | 200           |                |                 |
| <a href="#">P 03010</a>       | P                   | RO    | 3      | 4    | 4    | 30  | 15S | 35E | 645619 | 3650352* |  |               | 82             |                 |

\*UTM location was derived from PLSS - see Help

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Average Depth to Water: **61 feet**

Minimum Depth: **40 feet**

Maximum Depth: **125 feet**

---

**Record Count:** 195

**PLSS Search:**

**Township:** 15S

**Range:** 35E



# New Mexico Office of the State Engineer

## Point of Diversion Summary

|                                |                             |                                                                          |     |    |                            |        |                       |          |                                                                                     |
|--------------------------------|-----------------------------|--------------------------------------------------------------------------|-----|----|----------------------------|--------|-----------------------|----------|-------------------------------------------------------------------------------------|
|                                |                             | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |     |    |                            |        | (NAD83 UTM in meters) |          |                                                                                     |
| Well Tag                       | POD Number                  | Q64                                                                      | Q16 | Q4 | Sec                        | Tws    | Rng                   | X        | Y                                                                                   |
|                                | L 09372                     | 2                                                                        | 3   | 07 | 15S                        | 35E    | 644835                | 3655666* |  |
|                                |                             |                                                                          |     |    |                            |        |                       |          |                                                                                     |
| Driller License:               | 421                         | Driller Company:                                                         |     |    | GLENN'S WATER WELL SERVICE |        |                       |          |                                                                                     |
| Driller Name:                  | GLENN, CLARK A."CORKY" (LD) |                                                                          |     |    |                            |        |                       |          |                                                                                     |
| Drill Start Date:              | 11/11/1983                  | Drill Finish Date:                                                       |     |    | 11/11/1983                 |        | Plug Date:            |          |                                                                                     |
| Log File Date:                 | 11/15/1983                  | PCW Rcv Date:                                                            |     |    |                            |        | Source:               |          | Shallow                                                                             |
| Pump Type:                     |                             | Pipe Discharge Size:                                                     |     |    |                            |        | Estimated Yield:      |          | 100 GPM                                                                             |
| Casing Size:                   | 6.63                        | Depth Well:                                                              |     |    | 150 feet                   |        | Depth Water:          |          | 75 feet                                                                             |
|                                |                             |                                                                          |     |    |                            |        |                       |          |                                                                                     |
| Water Bearing Stratifications: |                             |                                                                          |     |    | Top                        | Bottom | Description           |          |                                                                                     |
|                                |                             |                                                                          |     |    | 80                         | 150    | Other/Unknown         |          |                                                                                     |
|                                |                             |                                                                          |     |    |                            |        |                       |          |                                                                                     |
| Casing Perforations:           |                             |                                                                          |     |    | Top                        | Bottom |                       |          |                                                                                     |
|                                |                             |                                                                          |     |    | 130                        | 150    |                       |          |                                                                                     |

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

|                 |                   |                                    |            |                       |            |            |            |          |                                                                                              |
|-----------------|-------------------|------------------------------------|------------|-----------------------|------------|------------|------------|----------|----------------------------------------------------------------------------------------------|
|                 |                   | (quarters are 1=NW 2=NE 3=SW 4=SE) |            |                       |            |            |            |          |                                                                                              |
|                 |                   | (quarters are smallest to largest) |            | (NAD83 UTM in meters) |            |            |            |          |                                                                                              |
| <b>Well Tag</b> | <b>POD Number</b> | <b>Q64</b>                         | <b>Q16</b> | <b>Q4</b>             | <b>Sec</b> | <b>Tws</b> | <b>Rng</b> | <b>X</b> | <b>Y</b>                                                                                     |
|                 | L 06046           | 3                                  | 3          | 3                     | 07         | 15S        | 35E        | 644333   | 3655153*  |

---

**Driller License:** 281      **Driller Company:** PRUETT, OTIS H.

**Driller Name:**

**Drill Start Date:** 09/26/1966      **Drill Finish Date:** 09/27/1966      **Plug Date:**

**Log File Date:** 11/02/1966      **PCW Rev Date:**      **Source:** Shallow

**Pump Type:**      **Pipe Discharge Size:**      **Estimated Yield:**

**Casing Size:** 7.00      **Depth Well:** 104 feet      **Depth Water:** 56 feet

---

|                                       |            |               |                               |
|---------------------------------------|------------|---------------|-------------------------------|
| <b>Water Bearing Stratifications:</b> | <b>Top</b> | <b>Bottom</b> | <b>Description</b>            |
|                                       | 56         | 90            | Sandstone/Gravel/Conglomerate |

---

|                             |            |               |
|-----------------------------|------------|---------------|
| <b>Casing Perforations:</b> | <b>Top</b> | <b>Bottom</b> |
|                             | 60         | 98            |

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

|                                       |                             |                                    |               |                            |            |                         |            |            |          |
|---------------------------------------|-----------------------------|------------------------------------|---------------|----------------------------|------------|-------------------------|------------|------------|----------|
|                                       |                             | (quarters are 1=NW 2=NE 3=SW 4=SE) |               |                            |            | (NAD83 UTM in meters)   |            |            |          |
|                                       |                             | (quarters are smallest to largest) |               |                            |            |                         |            |            |          |
| <b>Well Tag</b>                       | <b>POD Number</b>           | <b>Q64</b>                         | <b>Q16</b>    | <b>Q4</b>                  | <b>Sec</b> | <b>Tws</b>              | <b>Rng</b> | <b>X</b>   | <b>Y</b> |
| L                                     | 09555                       | 4                                  | 3             | 07                         | 15S        | 35E                     | 644842     | 3655263*   |          |
| <hr/>                                 |                             |                                    |               |                            |            |                         |            |            |          |
| <b>Driller License:</b>               | 421                         | <b>Driller Company:</b>            |               | GLENN'S WATER WELL SERVICE |            |                         |            |            |          |
| <b>Driller Name:</b>                  | GLENN, CLARK A."CORKY" (LD) |                                    |               |                            |            |                         |            |            |          |
| <b>Drill Start Date:</b>              | 08/31/1984                  | <b>Drill Finish Date:</b>          |               | 08/31/1984                 |            | <b>Plug Date:</b>       |            | 11/06/1984 |          |
| <b>Log File Date:</b>                 | 09/05/1984                  | <b>PCW Rev Date:</b>               |               |                            |            | <b>Source:</b>          |            | Shallow    |          |
| <b>Pump Type:</b>                     |                             | <b>Pipe Discharge Size:</b>        |               |                            |            | <b>Estimated Yield:</b> |            | 100 GPM    |          |
| <b>Casing Size:</b>                   | 6.63                        | <b>Depth Well:</b>                 |               | 150 feet                   |            | <b>Depth Water:</b>     |            | 54 feet    |          |
| <hr/>                                 |                             |                                    |               |                            |            |                         |            |            |          |
| <b>Water Bearing Stratifications:</b> |                             | <b>Top</b>                         | <b>Bottom</b> | <b>Description</b>         |            |                         |            |            |          |
|                                       |                             | 54                                 | 150           | Other/Unknown              |            |                         |            |            |          |
| <hr/>                                 |                             |                                    |               |                            |            |                         |            |            |          |
| <b>Casing Perforations:</b>           |                             | <b>Top</b>                         | <b>Bottom</b> |                            |            |                         |            |            |          |
|                                       |                             | 120                                | 150           |                            |            |                         |            |            |          |

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X      | Y        |
|----------|------------|-----|-----|----|-----|-----|-----|--------|----------|
| L        | 09523      | 1   | 1   | 4  | 07  | 15S | 35E | 645136 | 3655773* |

|                          |                |                             |                             |
|--------------------------|----------------|-----------------------------|-----------------------------|
| <b>Driller License:</b>  | 882            | <b>Driller Company:</b>     | LARRY'S DRILLING & PUMP CO. |
| <b>Driller Name:</b>     | FELKINS, LARRY |                             |                             |
| <b>Drill Start Date:</b> | 07/05/1984     | <b>Drill Finish Date:</b>   | 07/05/1984                  |
| <b>Log File Date:</b>    | 07/12/1984     | <b>PCW Rev Date:</b>        |                             |
| <b>Pump Type:</b>        |                | <b>Pipe Discharge Size:</b> |                             |
| <b>Casing Size:</b>      | 6.63           | <b>Depth Well:</b>          | 140 feet                    |
|                          |                | <b>Plug Date:</b>           | 08/08/1985                  |
|                          |                | <b>Source:</b>              | Shallow                     |
|                          |                | <b>Estimated Yield:</b>     | 70 GPM                      |
|                          |                | <b>Depth Water:</b>         | 57 feet                     |

| Water Bearing Stratifications: | Top | Bottom | Description                   |
|--------------------------------|-----|--------|-------------------------------|
|                                | 90  | 140    | Sandstone/Gravel/Conglomerate |

| Casing Perforations: | Top | Bottom |
|----------------------|-----|--------|
|                      | 100 | 140    |

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are smallest to largest) (NAD83 UTM in meters)

| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tw  | Rng | X      | Y        |
|----------|------------|-----|-----|----|-----|-----|-----|--------|----------|
| L        | 03129      |     |     |    | 07  | 15S | 35E | 645037 | 3655857* |

**Driller License:** 99 **Driller Company:** O.R. MUSSELWHITE WATER WELL SE  
**Driller Name:** MUSSELWHITE, O.R.  
**Drill Start Date:** 03/06/1956 **Drill Finish Date:** 03/07/1956 **Plug Date:** 03/01/1957  
**Log File Date:** 04/02/1956 **PCW Rev Date:** **Source:** Shallow  
**Pump Type:** **Pipe Discharge Size:** **Estimated Yield:**  
**Casing Size:** 7.00 **Depth Well:** 120 feet **Depth Water:** 60 feet

| Water Bearing Stratifications: | Top | Bottom | Description                   |
|--------------------------------|-----|--------|-------------------------------|
|                                | 80  | 120    | Sandstone/Gravel/Conglomerate |

| Casing Perforations: | Top | Bottom |
|----------------------|-----|--------|
|                      | 90  | 120    |

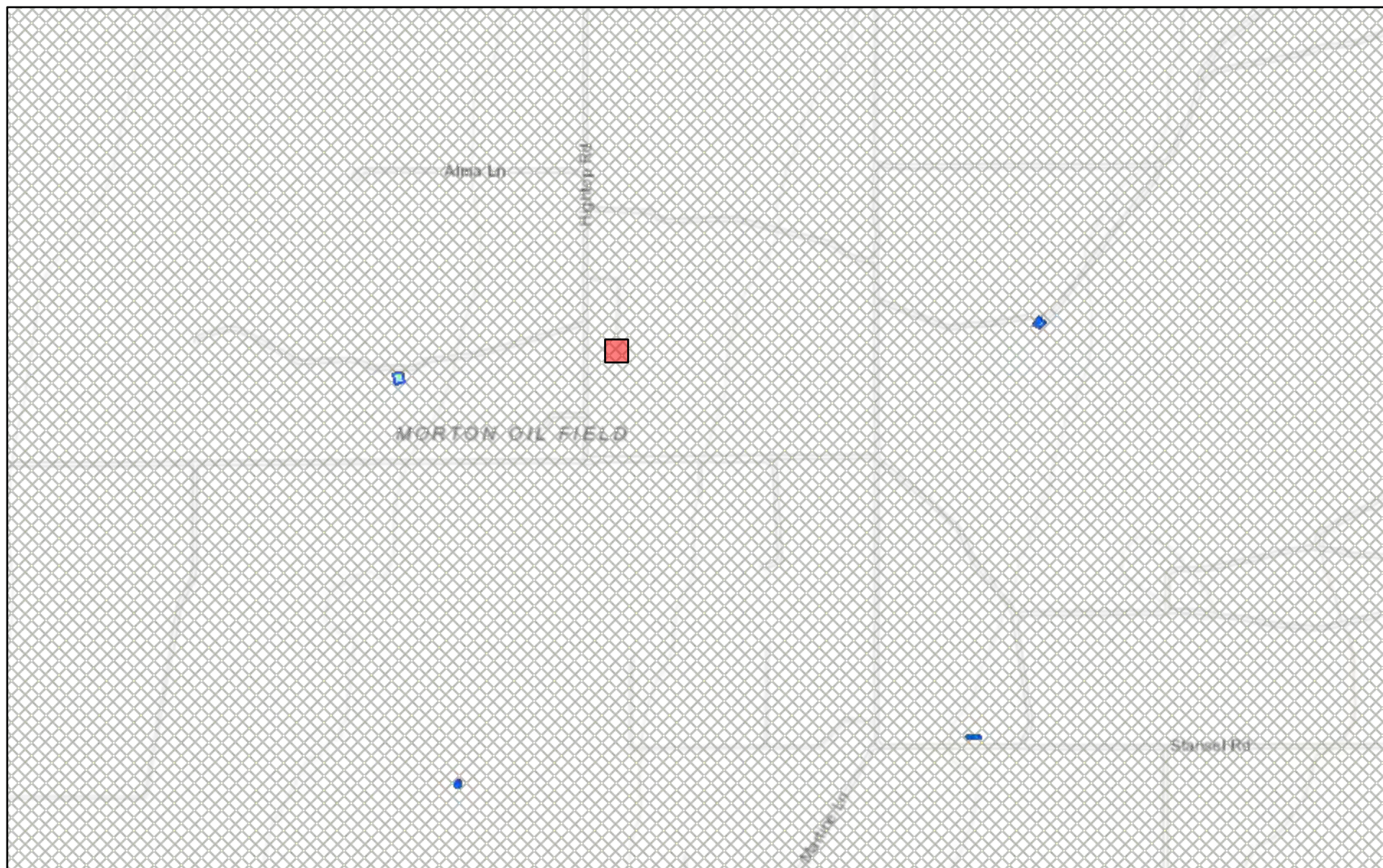
\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

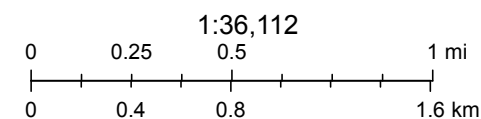
5/4/22 2:46 PM

POINT OF DIVERSION SUMMARY

# New Mexico NFHL Data



May 4, 2022



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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## APPENDIX D

CARMONA RESOURCES





Environment Testing  
America

## ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-12040-1

Laboratory Sample Delivery Group: Lovington NM  
Client Project/Site: Cabot Q SWD

For:

Fasken Oil and Ranch  
6101 Holiday Hill Road  
Midland, Texas 79707

Attn: Grant Huckabay

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
3/18/2022 1:28:53 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Laboratory Job ID: 880-12040-1  
SDG: Lovington NM

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## Definitions/Glossary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD exceeds control limits                        |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD exceeds control limits                        |
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

## Case Narrative

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

**Job ID: 880-12040-1**

**Laboratory: Eurofins Midland**

**Narrative**

**Job Narrative**  
**880-12040-1**

**Receipt**

The samples were received on 3/4/2022 8:06 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-20907 and analytical batch 880-21274 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-20868 and analytical batch 880-20852 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: BH 2 (880-12040-6), BH 3 (880-12040-9), (MB 880-20868/1-A) and (880-12039-A-1-B MS). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

Client Sample ID: BH 1

Lab Sample ID: 880-12040-1

Date Collected: 03/03/22 10:05

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:15 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:15 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:15 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:15 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:15 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:15 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116       |           | 70 - 130 | 03/09/22 12:54 | 03/11/22 06:15 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 | 03/09/22 12:54 | 03/11/22 06:15 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 03/11/22 10:57 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 486    |           | 50.0 |     | mg/Kg |   |          | 03/18/22 14:21 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 00:12 | 1       |
| Diesel Range Organics (Over C10-C28) | 486    |           | 50.0 |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 00:12 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 00:12 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 102       |           | 70 - 130 | 03/04/22 10:04 | 03/05/22 00:12 | 1       |
| o-Terphenyl    | 94        |           | 70 - 130 | 03/04/22 10:04 | 03/05/22 00:12 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 8930   |           | 99.8 |     | mg/Kg |   |          | 03/09/22 17:39 | 20      |

Client Sample ID: BH 1

Lab Sample ID: 880-12040-2

Date Collected: 03/03/22 10:10

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:36 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:36 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:36 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:36 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:36 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:36 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 115       |           | 70 - 130 | 03/09/22 12:54 | 03/11/22 06:36 | 1       |

Eurofins Midland

## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

Client Sample ID: BH 1

Lab Sample ID: 880-12040-2

Date Collected: 03/03/22 10:10

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 96        |           | 70 - 130 | 03/09/22 12:54 | 03/11/22 06:36 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/11/22 10:57 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 241    |           | 49.9 |     | mg/Kg |   |          | 03/18/22 14:21 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 00:33 | 1       |
| Diesel Range Organics (Over C10-C28) | 241       |           | 49.9     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 00:33 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 00:33 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 102       |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 00:33 | 1       |
| o-Terphenyl                          | 97        |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 00:33 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chloride | 9830   |           | 100 |     | mg/Kg |   |          | 03/09/22 18:05 | 20      |

Client Sample ID: BH 1

Lab Sample ID: 880-12040-3

Date Collected: 03/03/22 10:15

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:56 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:56 | 1       |
| Ethylbenzene        | 0.00855  |           | 0.00200 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:56 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:56 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:56 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 06:56 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 | 03/09/22 12:54 | 03/11/22 06:56 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 | 03/09/22 12:54 | 03/11/22 06:56 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result  | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|---------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | 0.00855 |           | 0.00401 |     | mg/Kg |   |          | 03/11/22 10:57 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 402    |           | 50.0 |     | mg/Kg |   |          | 03/18/22 14:21 | 1       |

Eurofins Midland

## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

Client Sample ID: BH 1

Lab Sample ID: 880-12040-3

Date Collected: 03/03/22 10:15

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2'

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 00:54 | 1       |
| Diesel Range Organics (Over C10-C28) | 402       |           | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 00:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 00:54 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 104       |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 00:54 | 1       |
| o-Terphenyl                          | 99        |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 00:54 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 4670   |           | 49.8 |     | mg/Kg |   |          | 03/09/22 18:14 | 10      |

Client Sample ID: BH 1

Lab Sample ID: 880-12040-4

Date Collected: 03/03/22 10:20

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2.25'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:17 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:17 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:17 | 1       |
| m-Xylene & p-Xylene         | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:17 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:17 | 1       |
| Xylenes, Total              | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:17 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99        |           | 70 - 130 |     |       |   | 03/09/22 12:54 | 03/11/22 07:17 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 |     |       |   | 03/09/22 12:54 | 03/11/22 07:17 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 |     | mg/Kg |   |          | 03/11/22 10:57 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 383    |           | 50.0 |     | mg/Kg |   |          | 03/18/22 14:21 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 01:15 | 1       |
| Diesel Range Organics (Over C10-C28) | 383       |           | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 01:15 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 01:15 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 114       |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 01:15 | 1       |
| o-Terphenyl                          | 114       |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 01:15 | 1       |

Eurofins Midland

## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

## Client Sample ID: BH 1

Lab Sample ID: 880-12040-4

Date Collected: 03/03/22 10:20

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2.25'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chloride | 9350   |           | 100 |     | mg/Kg |   |          | 03/09/22 18:23 | 20      |

## Client Sample ID: BH 2

Lab Sample ID: 880-12040-5

Date Collected: 03/03/22 10:25

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:37 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:37 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:37 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:37 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:37 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:37 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 111       |           | 70 - 130 |     |       |   | 03/09/22 12:54 | 03/11/22 07:37 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 |     |       |   | 03/09/22 12:54 | 03/11/22 07:37 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 |     | mg/Kg |   |          | 03/11/22 10:57 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 1110   |           | 49.9 |     | mg/Kg |   |          | 03/18/22 14:21 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 01:37 | 1       |
| Diesel Range Organics (Over C10-C28) | 1110      |           | 49.9     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 01:37 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 01:37 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 121       |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 01:37 | 1       |
| o-Terphenyl                          | 114       |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 01:37 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 2910   |           | 24.8 |     | mg/Kg |   |          | 03/09/22 18:32 | 5       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

Client Sample ID: BH 2

Lab Sample ID: 880-12040-6

Date Collected: 03/03/22 10:30

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:57 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:57 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:57 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:57 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:57 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 07:57 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110       |           | 70 - 130 | 03/09/22 12:54 | 03/11/22 07:57 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 | 03/09/22 12:54 | 03/11/22 07:57 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 03/11/22 10:57 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 1220   |           | 49.9 |     | mg/Kg |   |          | 03/18/22 14:21 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 01:59 | 1       |
| Diesel Range Organics (Over C10-C28) | 1220   |           | 49.9 |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 01:59 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 01:59 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 133       | S1+       | 70 - 130 | 03/04/22 10:04 | 03/05/22 01:59 | 1       |
| o-Terphenyl    | 139       | S1+       | 70 - 130 | 03/04/22 10:04 | 03/05/22 01:59 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chloride | 12400  |           | 100 |     | mg/Kg |   |          | 03/09/22 18:41 | 20      |

Client Sample ID: BH 2

Lab Sample ID: 880-12040-7

Date Collected: 03/03/22 10:35

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:18 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:18 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:18 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:18 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:18 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:18 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 | 03/09/22 12:54 | 03/11/22 08:18 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

Client Sample ID: BH 2

Lab Sample ID: 880-12040-7

Date Collected: 03/03/22 10:35

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2'

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 96        |           | 70 - 130 | 03/09/22 12:54 | 03/11/22 08:18 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 03/11/22 10:57 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 308    |           | 50.0 |     | mg/Kg |   |          | 03/18/22 14:21 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 02:20 | 1       |
| Diesel Range Organics (Over C10-C28) | 308       |           | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 02:20 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 02:20 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 108       |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 02:20 | 1       |
| o-Terphenyl                          | 109       |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 02:20 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 82.9   |           | 4.97 |     | mg/Kg |   |          | 03/09/22 18:50 | 1       |

Client Sample ID: BH 3

Lab Sample ID: 880-12040-8

Date Collected: 03/03/22 10:40

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:38 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:38 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:38 | 1       |
| m-Xylene & p-Xylene | <0.00404 | U         | 0.00404 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:38 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:38 | 1       |
| Xylenes, Total      | <0.00404 | U         | 0.00404 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:38 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 | 03/09/22 12:54 | 03/11/22 08:38 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 03/09/22 12:54 | 03/11/22 08:38 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U         | 0.00404 |     | mg/Kg |   |          | 03/11/22 10:57 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 89.1   |           | 50.0 |     | mg/Kg |   |          | 03/18/22 14:21 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

## Client Sample ID: BH 3

Lab Sample ID: 880-12040-8

Date Collected: 03/03/22 10:40

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 0-6"

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 02:41 | 1       |
| Diesel Range Organics (Over C10-C28) | 89.1      |           | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 02:41 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 02:41 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 101       |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 02:41 | 1       |
| o-Terphenyl                          | 94        |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 02:41 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 31.6   |           | 4.96 |     | mg/Kg |   |          | 03/09/22 18:58 | 1       |

## Client Sample ID: BH 3

Lab Sample ID: 880-12040-9

Date Collected: 03/03/22 10:45

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:59 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:59 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:59 | 1       |
| m-Xylene & p-Xylene         | <0.00396  | U         | 0.00396  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:59 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:59 | 1       |
| Xylenes, Total              | <0.00396  | U         | 0.00396  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 08:59 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 |     |       |   | 03/09/22 12:54 | 03/11/22 08:59 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103       |           | 70 - 130 |     |       |   | 03/09/22 12:54 | 03/11/22 08:59 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 |     | mg/Kg |   |          | 03/11/22 10:57 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 214    |           | 49.9 |     | mg/Kg |   |          | 03/18/22 14:21 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 03:02 | 1       |
| Diesel Range Organics (Over C10-C28) | 214       |           | 49.9     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 03:02 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 03:02 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 131       | S1+       | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 03:02 | 1       |
| o-Terphenyl                          | 135       | S1+       | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 03:02 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

## Client Sample ID: BH 3

Lab Sample ID: 880-12040-9

Date Collected: 03/03/22 10:45

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 1'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chloride | 1390   |           | 100 |     | mg/Kg |   |          | 03/09/22 20:09 | 20      |

## Client Sample ID: BH 3

Lab Sample ID: 880-12040-10

Date Collected: 03/03/22 10:50

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 09:19 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 09:19 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 09:19 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 09:19 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 09:19 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 09:19 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 |     |       |   | 03/09/22 12:54 | 03/11/22 09:19 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 |     |       |   | 03/09/22 12:54 | 03/11/22 09:19 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/11/22 10:57 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 114    |           | 49.9 |     | mg/Kg |   |          | 03/18/22 14:21 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 03:24 | 1       |
| Diesel Range Organics (Over C10-C28) | 114       |           | 49.9     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 03:24 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:04 | 03/05/22 03:24 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 101       |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 03:24 | 1       |
| o-Terphenyl                          | 96        |           | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/05/22 03:24 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 834    |           | 49.9 |     | mg/Kg |   |          | 03/09/22 20:36 | 10      |

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## Surrogate Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-12039-A-1-E MS                | Matrix Spike           | 102                                            | 104               |
| 880-12039-A-1-F MSD               | Matrix Spike Duplicate | 101                                            | 94                |
| 880-12040-1                       | BH 1                   | 116                                            | 96                |
| 880-12040-2                       | BH 1                   | 115                                            | 96                |
| 880-12040-3                       | BH 1                   | 98                                             | 95                |
| 880-12040-4                       | BH 1                   | 99                                             | 99                |
| 880-12040-5                       | BH 2                   | 111                                            | 100               |
| 880-12040-6                       | BH 2                   | 110                                            | 95                |
| 880-12040-7                       | BH 2                   | 102                                            | 96                |
| 880-12040-8                       | BH 3                   | 108                                            | 99                |
| 880-12040-9                       | BH 3                   | 102                                            | 103               |
| 880-12040-10                      | BH 3                   | 112                                            | 98                |
| LCS 880-20907/1-A                 | Lab Control Sample     | 101                                            | 103               |
| LCSD 880-20907/2-A                | Lab Control Sample Dup | 95                                             | 101               |
| MB 880-20907/5-A                  | Method Blank           | 97                                             | 102               |
| MB 880-21130/5-A                  | Method Blank           | 97                                             | 99                |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |                                                |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |                                                |                   |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-12039-A-1-B MS      | Matrix Spike           | 140 S1+                                        | 119               |
| 880-12039-A-1-C MSD     | Matrix Spike Duplicate | 118                                            | 97                |
| 880-12040-1             | BH 1                   | 102                                            | 94                |
| 880-12040-2             | BH 1                   | 102                                            | 97                |
| 880-12040-3             | BH 1                   | 104                                            | 99                |
| 880-12040-4             | BH 1                   | 114                                            | 114               |
| 880-12040-5             | BH 2                   | 121                                            | 114               |
| 880-12040-6             | BH 2                   | 133 S1+                                        | 139 S1+           |
| 880-12040-7             | BH 2                   | 108                                            | 109               |
| 880-12040-8             | BH 3                   | 101                                            | 94                |
| 880-12040-9             | BH 3                   | 131 S1+                                        | 135 S1+           |
| 880-12040-10            | BH 3                   | 101                                            | 96                |
| LCS 880-20868/2-A       | Lab Control Sample     | 108                                            | 93                |
| LCSD 880-20868/3-A      | Lab Control Sample Dup | 103                                            | 91                |
| MB 880-20868/1-A        | Method Blank           | 127                                            | 132 S1+           |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20907/5-A

Matrix: Solid

Analysis Batch: 21274

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20907

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 00:52 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 00:52 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 00:52 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 00:52 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 00:52 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/09/22 12:54 | 03/11/22 00:52 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97           |              | 70 - 130 | 03/09/22 12:54 | 03/11/22 00:52 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102          |              | 70 - 130 | 03/09/22 12:54 | 03/11/22 00:52 | 1       |

Lab Sample ID: LCS 880-20907/1-A

Matrix: Solid

Analysis Batch: 21274

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20907

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.1056     |               | mg/Kg |   | 106  | 70 - 130     |
| Toluene             | 0.100       | 0.1028     |               | mg/Kg |   | 103  | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1031     |               | mg/Kg |   | 103  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2388     |               | mg/Kg |   | 119  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1185     |               | mg/Kg |   | 118  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 101           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103           |               | 70 - 130 |

Lab Sample ID: LCSD 880-20907/2-A

Matrix: Solid

Analysis Batch: 21274

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20907

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene             | 0.100       | 0.09404     |                | mg/Kg |   | 94   | 70 - 130     | 12  | 35    |
| Toluene             | 0.100       | 0.09242     |                | mg/Kg |   | 92   | 70 - 130     | 11  | 35    |
| Ethylbenzene        | 0.100       | 0.09265     |                | mg/Kg |   | 93   | 70 - 130     | 11  | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2147      |                | mg/Kg |   | 107  | 70 - 130     | 11  | 35    |
| o-Xylene            | 0.100       | 0.1068      |                | mg/Kg |   | 107  | 70 - 130     | 10  | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 95             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101            |                | 70 - 130 |

Lab Sample ID: 880-12039-A-1-E MS

Matrix: Solid

Analysis Batch: 21274

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20907

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <0.00199      | U F2 F1          | 0.100       | 0.08083   |              | mg/Kg |   | 81   | 70 - 130     |
| Toluene | <0.00199      | U F2 F1          | 0.100       | 0.07966   |              | mg/Kg |   | 80   | 70 - 130     |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-12039-A-1-E MS

Matrix: Solid

Analysis Batch: 21274

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20907

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Ethylbenzene        | <0.00199      | U F2 F1          | 0.100       | 0.07972   |              | mg/Kg |   | 80   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00398      | U F2 F1          | 0.200       | 0.1859    |              | mg/Kg |   | 93   | 70 - 130     |
| o-Xylene            | <0.00199      | U F2 F1          | 0.100       | 0.09260   |              | mg/Kg |   | 93   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 102          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104          |              | 70 - 130 |

Lab Sample ID: 880-12039-A-1-F MSD

Matrix: Solid

Analysis Batch: 21274

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20907

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00199      | U F2 F1          | 0.0998      | 0.02695    | F2 F1         | mg/Kg |   | 27   | 70 - 130     | 100 | 35        |
| Toluene             | <0.00199      | U F2 F1          | 0.0998      | 0.03091    | F2 F1         | mg/Kg |   | 31   | 70 - 130     | 88  | 35        |
| Ethylbenzene        | <0.00199      | U F2 F1          | 0.0998      | 0.03175    | F2 F1         | mg/Kg |   | 32   | 70 - 130     | 86  | 35        |
| m-Xylene & p-Xylene | <0.00398      | U F2 F1          | 0.200       | 0.07086    | F2 F1         | mg/Kg |   | 35   | 70 - 130     | 90  | 35        |
| o-Xylene            | <0.00199      | U F2 F1          | 0.0998      | 0.04060    | F2 F1         | mg/Kg |   | 41   | 70 - 130     | 78  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 101           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 94            |               | 70 - 130 |

Lab Sample ID: MB 880-21130/5-A

Matrix: Solid

Analysis Batch: 21274

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21130

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/10/22 07:30 | 03/10/22 12:03 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/10/22 07:30 | 03/10/22 12:03 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/10/22 07:30 | 03/10/22 12:03 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/10/22 07:30 | 03/10/22 12:03 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/10/22 07:30 | 03/10/22 12:03 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/10/22 07:30 | 03/10/22 12:03 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97           |              | 70 - 130 | 03/10/22 07:30 | 03/10/22 12:03 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99           |              | 70 - 130 | 03/10/22 07:30 | 03/10/22 12:03 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-20868/1-A

Matrix: Solid

Analysis Batch: 20852

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20868

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/04/22 10:04 | 03/04/22 18:40 | 1       |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-20868/1-A

Matrix: Solid

Analysis Batch: 20852

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20868

| Analyte                              | MB<br>Result    | MB<br>Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0           | U               | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/04/22 18:40 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0           | U               | 50.0     |     | mg/Kg |   | 03/04/22 10:04 | 03/04/22 18:40 | 1       |
| Surrogate                            | MB<br>%Recovery | MB<br>Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 127             |                 | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/04/22 18:40 | 1       |
| o-Terphenyl                          | 132             | S1+             | 70 - 130 |     |       |   | 03/04/22 10:04 | 03/04/22 18:40 | 1       |

Lab Sample ID: LCS 880-20868/2-A

Matrix: Solid

Analysis Batch: 20852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20868

| Analyte                              | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|-----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 1216             |                  | mg/Kg |   | 122  | 70 - 130        |
| Diesel Range Organics (Over C10-C28) | 1000             | 883.7            |                  | mg/Kg |   | 88   | 70 - 130        |
| Surrogate                            | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                 |
| 1-Chlorooctane                       | 108              |                  | 70 - 130         |       |   |      |                 |
| o-Terphenyl                          | 93               |                  | 70 - 130         |       |   |      |                 |

Lab Sample ID: LCSD 880-20868/3-A

Matrix: Solid

Analysis Batch: 20852

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20868

| Analyte                              | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000              | 1184              |                   | mg/Kg |   | 118  | 70 - 130        | 3   | 20           |
| Diesel Range Organics (Over C10-C28) | 1000              | 856.5             |                   | mg/Kg |   | 86   | 70 - 130        | 3   | 20           |
| Surrogate                            | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |       |   |      |                 |     |              |
| 1-Chlorooctane                       | 103               |                   | 70 - 130          |       |   |      |                 |     |              |
| o-Terphenyl                          | 91                |                   | 70 - 130          |       |   |      |                 |     |              |

Lab Sample ID: 880-12039-A-1-B MS

Matrix: Solid

Analysis Batch: 20852

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20868

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U F1                | 1000           | 1708         | F1              | mg/Kg |   | 166  | 70 - 130        |
| Diesel Range Organics (Over C10-C28) | 60.3             | F1 F2               | 1000           | 1390         | F1              | mg/Kg |   | 133  | 70 - 130        |
| Surrogate                            | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                 |
| 1-Chlorooctane                       | 140              | S1+                 | 70 - 130       |              |                 |       |   |      |                 |
| o-Terphenyl                          | 119              |                     | 70 - 130       |              |                 |       |   |      |                 |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-12039-A-1-C MSD

Matrix: Solid

Analysis Batch: 20852

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20868

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U F1             | 998         | 1494       | F1            | mg/Kg |   | 145  | 70 - 130     | 13  | 20        |
| Diesel Range Organics (Over C10-C28) | 60.3          | F1 F2            | 998         | 1125       | F2            | mg/Kg |   | 107  | 70 - 130     | 21  | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| 1-Chlorooctane                       | 118           |                  | 70 - 130    |            |               |       |   |      |              |     |           |
| o-Terphenyl                          | 97            |                  | 70 - 130    |            |               |       |   |      |              |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20876/1-A

Matrix: Solid

Analysis Batch: 21141

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 |     | mg/Kg |   |          | 03/09/22 14:32 | 1       |

Lab Sample ID: LCS 880-20876/2-A

Matrix: Solid

Analysis Batch: 21141

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 250         | 250.4      |               | mg/Kg |   | 100  | 90 - 110     |

Lab Sample ID: LCSD 880-20876/3-A

Matrix: Solid

Analysis Batch: 21141

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250         | 250.6       |                | mg/Kg |   | 100  | 90 - 110     | 0   | 20        |

Lab Sample ID: 880-12039-A-9-E MS

Matrix: Solid

Analysis Batch: 21141

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 756           |                  | 1250        | 2062      |              | mg/Kg |   | 105  | 90 - 110     |

Lab Sample ID: 880-12039-A-9-F MSD

Matrix: Solid

Analysis Batch: 21141

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 756           |                  | 1250        | 2034       |               | mg/Kg |   | 102  | 90 - 110     | 1   | 20        |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-21027/1-A

Matrix: Solid

Analysis Batch: 21142

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 |     | mg/Kg |   |          | 03/09/22 19:43 | 1       |

Lab Sample ID: LCS 880-21027/2-A

Matrix: Solid

Analysis Batch: 21142

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|-----------------|
| Chloride | 250            | 244.3         |                  | mg/Kg |   | 98   | 90 - 110        |

Lab Sample ID: LCSD 880-21027/3-A

Matrix: Solid

Analysis Batch: 21142

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 250            | 243.9          |                   | mg/Kg |   | 98   | 90 - 110        | 0   | 20           |

Lab Sample ID: 880-12040-9 MS

Matrix: Solid

Analysis Batch: 21142

Client Sample ID: BH 3

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Chloride | 1390             |                     | 5000           | 6573         |                 | mg/Kg |   | 104  | 90 - 110        |

Lab Sample ID: 880-12040-9 MSD

Matrix: Solid

Analysis Batch: 21142

Client Sample ID: BH 3

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 1390             |                     | 5000           | 6416          |                  | mg/Kg |   | 100  | 90 - 110        | 2   | 20           |

## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

## GC VOA

## Prep Batch: 20907

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-12040-1         | BH 1                   | Total/NA  | Solid  | 5035   |            |
| 880-12040-2         | BH 1                   | Total/NA  | Solid  | 5035   |            |
| 880-12040-3         | BH 1                   | Total/NA  | Solid  | 5035   |            |
| 880-12040-4         | BH 1                   | Total/NA  | Solid  | 5035   |            |
| 880-12040-5         | BH 2                   | Total/NA  | Solid  | 5035   |            |
| 880-12040-6         | BH 2                   | Total/NA  | Solid  | 5035   |            |
| 880-12040-7         | BH 2                   | Total/NA  | Solid  | 5035   |            |
| 880-12040-8         | BH 3                   | Total/NA  | Solid  | 5035   |            |
| 880-12040-9         | BH 3                   | Total/NA  | Solid  | 5035   |            |
| 880-12040-10        | BH 3                   | Total/NA  | Solid  | 5035   |            |
| MB 880-20907/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-20907/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-20907/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-12039-A-1-E MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-12039-A-1-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 21130

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-21130/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21274

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-12040-1         | BH 1                   | Total/NA  | Solid  | 8021B  | 20907      |
| 880-12040-2         | BH 1                   | Total/NA  | Solid  | 8021B  | 20907      |
| 880-12040-3         | BH 1                   | Total/NA  | Solid  | 8021B  | 20907      |
| 880-12040-4         | BH 1                   | Total/NA  | Solid  | 8021B  | 20907      |
| 880-12040-5         | BH 2                   | Total/NA  | Solid  | 8021B  | 20907      |
| 880-12040-6         | BH 2                   | Total/NA  | Solid  | 8021B  | 20907      |
| 880-12040-7         | BH 2                   | Total/NA  | Solid  | 8021B  | 20907      |
| 880-12040-8         | BH 3                   | Total/NA  | Solid  | 8021B  | 20907      |
| 880-12040-9         | BH 3                   | Total/NA  | Solid  | 8021B  | 20907      |
| 880-12040-10        | BH 3                   | Total/NA  | Solid  | 8021B  | 20907      |
| MB 880-20907/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 20907      |
| MB 880-21130/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 21130      |
| LCS 880-20907/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 20907      |
| LCSD 880-20907/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 20907      |
| 880-12039-A-1-E MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 20907      |
| 880-12039-A-1-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 20907      |

## Analysis Batch: 21389

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-12040-1   | BH 1             | Total/NA  | Solid  | Total BTEX |            |
| 880-12040-2   | BH 1             | Total/NA  | Solid  | Total BTEX |            |
| 880-12040-3   | BH 1             | Total/NA  | Solid  | Total BTEX |            |
| 880-12040-4   | BH 1             | Total/NA  | Solid  | Total BTEX |            |
| 880-12040-5   | BH 2             | Total/NA  | Solid  | Total BTEX |            |
| 880-12040-6   | BH 2             | Total/NA  | Solid  | Total BTEX |            |
| 880-12040-7   | BH 2             | Total/NA  | Solid  | Total BTEX |            |
| 880-12040-8   | BH 3             | Total/NA  | Solid  | Total BTEX |            |
| 880-12040-9   | BH 3             | Total/NA  | Solid  | Total BTEX |            |
| 880-12040-10  | BH 3             | Total/NA  | Solid  | Total BTEX |            |

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## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

## GC Semi VOA

## Analysis Batch: 20852

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-12040-1         | BH 1                   | Total/NA  | Solid  | 8015B NM | 20868      |
| 880-12040-2         | BH 1                   | Total/NA  | Solid  | 8015B NM | 20868      |
| 880-12040-3         | BH 1                   | Total/NA  | Solid  | 8015B NM | 20868      |
| 880-12040-4         | BH 1                   | Total/NA  | Solid  | 8015B NM | 20868      |
| 880-12040-5         | BH 2                   | Total/NA  | Solid  | 8015B NM | 20868      |
| 880-12040-6         | BH 2                   | Total/NA  | Solid  | 8015B NM | 20868      |
| 880-12040-7         | BH 2                   | Total/NA  | Solid  | 8015B NM | 20868      |
| 880-12040-8         | BH 3                   | Total/NA  | Solid  | 8015B NM | 20868      |
| 880-12040-9         | BH 3                   | Total/NA  | Solid  | 8015B NM | 20868      |
| 880-12040-10        | BH 3                   | Total/NA  | Solid  | 8015B NM | 20868      |
| MB 880-20868/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 20868      |
| LCS 880-20868/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 20868      |
| LCSD 880-20868/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 20868      |
| 880-12039-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 20868      |
| 880-12039-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 20868      |

## Prep Batch: 20868

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 880-12040-1         | BH 1                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12040-2         | BH 1                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12040-3         | BH 1                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12040-4         | BH 1                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12040-5         | BH 2                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12040-6         | BH 2                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12040-7         | BH 2                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12040-8         | BH 3                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12040-9         | BH 3                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12040-10        | BH 3                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-20868/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-20868/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-20868/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12039-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12039-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21912

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-12040-1   | BH 1             | Total/NA  | Solid  | 8015 NM |            |
| 880-12040-2   | BH 1             | Total/NA  | Solid  | 8015 NM |            |
| 880-12040-3   | BH 1             | Total/NA  | Solid  | 8015 NM |            |
| 880-12040-4   | BH 1             | Total/NA  | Solid  | 8015 NM |            |
| 880-12040-5   | BH 2             | Total/NA  | Solid  | 8015 NM |            |
| 880-12040-6   | BH 2             | Total/NA  | Solid  | 8015 NM |            |
| 880-12040-7   | BH 2             | Total/NA  | Solid  | 8015 NM |            |
| 880-12040-8   | BH 3             | Total/NA  | Solid  | 8015 NM |            |
| 880-12040-9   | BH 3             | Total/NA  | Solid  | 8015 NM |            |
| 880-12040-10  | BH 3             | Total/NA  | Solid  | 8015 NM |            |

Eurofins Midland

## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

## HPLC/IC

## Leach Batch: 20876

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-12040-1         | BH 1                   | Soluble   | Solid  | DI Leach |            |
| 880-12040-2         | BH 1                   | Soluble   | Solid  | DI Leach |            |
| 880-12040-3         | BH 1                   | Soluble   | Solid  | DI Leach |            |
| 880-12040-4         | BH 1                   | Soluble   | Solid  | DI Leach |            |
| 880-12040-5         | BH 2                   | Soluble   | Solid  | DI Leach |            |
| 880-12040-6         | BH 2                   | Soluble   | Solid  | DI Leach |            |
| 880-12040-7         | BH 2                   | Soluble   | Solid  | DI Leach |            |
| 880-12040-8         | BH 3                   | Soluble   | Solid  | DI Leach |            |
| MB 880-20876/1-A    | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-20876/2-A   | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-20876/3-A  | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-12039-A-9-E MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-12039-A-9-F MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Leach Batch: 21027

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-12040-9        | BH 3                   | Soluble   | Solid  | DI Leach |            |
| 880-12040-10       | BH 3                   | Soluble   | Solid  | DI Leach |            |
| MB 880-21027/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-21027/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-21027/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-12040-9 MS     | BH 3                   | Soluble   | Solid  | DI Leach |            |
| 880-12040-9 MSD    | BH 3                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 21141

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-12040-1         | BH 1                   | Soluble   | Solid  | 300.0  | 20876      |
| 880-12040-2         | BH 1                   | Soluble   | Solid  | 300.0  | 20876      |
| 880-12040-3         | BH 1                   | Soluble   | Solid  | 300.0  | 20876      |
| 880-12040-4         | BH 1                   | Soluble   | Solid  | 300.0  | 20876      |
| 880-12040-5         | BH 2                   | Soluble   | Solid  | 300.0  | 20876      |
| 880-12040-6         | BH 2                   | Soluble   | Solid  | 300.0  | 20876      |
| 880-12040-7         | BH 2                   | Soluble   | Solid  | 300.0  | 20876      |
| 880-12040-8         | BH 3                   | Soluble   | Solid  | 300.0  | 20876      |
| MB 880-20876/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 20876      |
| LCS 880-20876/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 20876      |
| LCSD 880-20876/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 20876      |
| 880-12039-A-9-E MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 20876      |
| 880-12039-A-9-F MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 20876      |

## Analysis Batch: 21142

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-12040-9        | BH 3                   | Soluble   | Solid  | 300.0  | 21027      |
| 880-12040-10       | BH 3                   | Soluble   | Solid  | 300.0  | 21027      |
| MB 880-21027/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 21027      |
| LCS 880-21027/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 21027      |
| LCSD 880-21027/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 21027      |
| 880-12040-9 MS     | BH 3                   | Soluble   | Solid  | 300.0  | 21027      |
| 880-12040-9 MSD    | BH 3                   | Soluble   | Solid  | 300.0  | 21027      |

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## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

Client Sample ID: BH 1

Lab Sample ID: 880-12040-1

Date Collected: 03/03/22 10:05

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 20907        | 03/09/22 12:54       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21274        | 03/11/22 06:15       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21389        | 03/11/22 10:57       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21912        | 03/18/22 14:21       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 20868        | 03/04/22 10:04       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 20852        | 03/05/22 00:12       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 20876        | 03/04/22 10:44       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20         |                |              | 21141        | 03/09/22 17:39       | CH      | XEN MID |

Client Sample ID: BH 1

Lab Sample ID: 880-12040-2

Date Collected: 03/03/22 10:10

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 20907        | 03/09/22 12:54       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21274        | 03/11/22 06:36       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21389        | 03/11/22 10:57       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21912        | 03/18/22 14:21       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 20868        | 03/04/22 10:04       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 20852        | 03/05/22 00:33       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 20876        | 03/04/22 10:44       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20         |                |              | 21141        | 03/09/22 18:05       | CH      | XEN MID |

Client Sample ID: BH 1

Lab Sample ID: 880-12040-3

Date Collected: 03/03/22 10:15

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 20907        | 03/09/22 12:54       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21274        | 03/11/22 06:56       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21389        | 03/11/22 10:57       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21912        | 03/18/22 14:21       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 20868        | 03/04/22 10:04       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 20852        | 03/05/22 00:54       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 20876        | 03/04/22 10:44       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 21141        | 03/09/22 18:14       | CH      | XEN MID |

Client Sample ID: BH 1

Lab Sample ID: 880-12040-4

Date Collected: 03/03/22 10:20

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 20907        | 03/09/22 12:54       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21274        | 03/11/22 07:17       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21389        | 03/11/22 10:57       | AJ      | XEN MID |

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## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

Client Sample ID: BH 1

Lab Sample ID: 880-12040-4

Date Collected: 03/03/22 10:20

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21912        | 03/18/22 14:21       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 20868        | 03/04/22 10:04       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 20852        | 03/05/22 01:15       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 20876        | 03/04/22 10:44       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20         |                |              | 21141        | 03/09/22 18:23       | CH      | XEN MID |

Client Sample ID: BH 2

Lab Sample ID: 880-12040-5

Date Collected: 03/03/22 10:25

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 20907        | 03/09/22 12:54       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21274        | 03/11/22 07:37       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21389        | 03/11/22 10:57       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21912        | 03/18/22 14:21       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 20868        | 03/04/22 10:04       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 20852        | 03/05/22 01:37       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 20876        | 03/04/22 10:44       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 21141        | 03/09/22 18:32       | CH      | XEN MID |

Client Sample ID: BH 2

Lab Sample ID: 880-12040-6

Date Collected: 03/03/22 10:30

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 20907        | 03/09/22 12:54       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21274        | 03/11/22 07:57       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21389        | 03/11/22 10:57       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21912        | 03/18/22 14:21       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 20868        | 03/04/22 10:04       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 20852        | 03/05/22 01:59       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 20876        | 03/04/22 10:44       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20         |                |              | 21141        | 03/09/22 18:41       | CH      | XEN MID |

Client Sample ID: BH 2

Lab Sample ID: 880-12040-7

Date Collected: 03/03/22 10:35

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 20907        | 03/09/22 12:54       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21274        | 03/11/22 08:18       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21389        | 03/11/22 10:57       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21912        | 03/18/22 14:21       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 20868        | 03/04/22 10:04       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 20852        | 03/05/22 02:20       | AJ      | XEN MID |

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## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

Client Sample ID: BH 2

Lab Sample ID: 880-12040-7

Date Collected: 03/03/22 10:35

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 20876        | 03/04/22 10:44       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 21141        | 03/09/22 18:50       | CH      | XEN MID |

Client Sample ID: BH 3

Lab Sample ID: 880-12040-8

Date Collected: 03/03/22 10:40

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.95 g         | 5 mL         | 20907        | 03/09/22 12:54       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21274        | 03/11/22 08:38       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21389        | 03/11/22 10:57       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21912        | 03/18/22 14:21       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 20868        | 03/04/22 10:04       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 20852        | 03/05/22 02:41       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 20876        | 03/04/22 10:44       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 21141        | 03/09/22 18:58       | CH      | XEN MID |

Client Sample ID: BH 3

Lab Sample ID: 880-12040-9

Date Collected: 03/03/22 10:45

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 20907        | 03/09/22 12:54       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21274        | 03/11/22 08:59       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21389        | 03/11/22 10:57       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21912        | 03/18/22 14:21       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 20868        | 03/04/22 10:04       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 20852        | 03/05/22 03:02       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 21027        | 03/07/22 10:42       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20         |                |              | 21142        | 03/09/22 20:09       | CH      | XEN MID |

Client Sample ID: BH 3

Lab Sample ID: 880-12040-10

Date Collected: 03/03/22 10:50

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 20907        | 03/09/22 12:54       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21274        | 03/11/22 09:19       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21389        | 03/11/22 10:57       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21912        | 03/18/22 14:21       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 20868        | 03/04/22 10:04       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 20852        | 03/05/22 03:24       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 21027        | 03/07/22 10:42       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 21142        | 03/09/22 20:36       | CH      | XEN MID |

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-21-22      | 06-30-22        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte    |
|-----------------|-------------|--------|------------|
| 8015 NM         |             | Solid  | Total TPH  |
| Total BTEX      |             | Solid  | Total BTEX |

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## Method Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

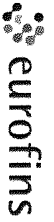
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## Sample Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12040-1  
SDG: Lovington NM

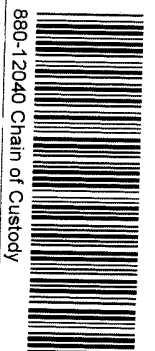
| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-12040-1   | BH 1             | Solid  | 03/03/22 10:05 | 03/04/22 08:06 | 0-6"  |
| 880-12040-2   | BH 1             | Solid  | 03/03/22 10:10 | 03/04/22 08:06 | 1'    |
| 880-12040-3   | BH 1             | Solid  | 03/03/22 10:15 | 03/04/22 08:06 | 2'    |
| 880-12040-4   | BH 1             | Solid  | 03/03/22 10:20 | 03/04/22 08:06 | 2.25' |
| 880-12040-5   | BH 2             | Solid  | 03/03/22 10:25 | 03/04/22 08:06 | 0-6"  |
| 880-12040-6   | BH 2             | Solid  | 03/03/22 10:30 | 03/04/22 08:06 | 1'    |
| 880-12040-7   | BH 2             | Solid  | 03/03/22 10:35 | 03/04/22 08:06 | 2'    |
| 880-12040-8   | BH 3             | Solid  | 03/03/22 10:40 | 03/04/22 08:06 | 0-6"  |
| 880-12040-9   | BH 3             | Solid  | 03/03/22 10:45 | 03/04/22 08:06 | 1'    |
| 880-12040-10  | BH 3             | Solid  | 03/03/22 10:50 | 03/04/22 08:06 | 2'    |



Environment Testing  
Xerco

Houston TX (281) 240-4200 Dallas TX (214) 902-0300  
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El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296  
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody



880-12040 Chain of Custody

www.xerco.com Page 1 of 1

|                 |                        |                        |                                   |
|-----------------|------------------------|------------------------|-----------------------------------|
| Project Manager | Grant Huckabay         | Bill to (if different) |                                   |
| Company Name    | Fasken Oil and Ranch   | Company Name           |                                   |
| Address         | 6101 Holiday Hill Road | Address                |                                   |
| City, State ZIP | Midland TX 79707       | City, State ZIP        |                                   |
| Phone           | 432-288-5529           | Email                  | granth@forl.com, Addison@forl.com |

|                                                                                                                                                                                                     |                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Program <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> |                                    |
| State of Project                                                                                                                                                                                    |                                    |
| Reporting Level II <input type="checkbox"/>                                                                                                                                                         | Level III <input type="checkbox"/> |
| Level IV <input type="checkbox"/>                                                                                                                                                                   | Level V <input type="checkbox"/>   |
| Deliverables EDD <input type="checkbox"/>                                                                                                                                                           | ADAPT <input type="checkbox"/>     |
| Other                                                                                                                                                                                               |                                    |

|                         |                                                                     |                                                                     |                                                                           |                                                                     |  |
|-------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|--|
| Project Name            | LABOR & SWD                                                         | Turn Around                                                         | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pass Code                                                           |  |
| Project Number          |                                                                     | Due Date                                                            | 3/10/22                                                                   |                                                                     |  |
| Project Location        | Addison Guelker                                                     | TAT starts the day received by the lab if received by 4:30pm        |                                                                           |                                                                     |  |
| Sampler's Name          |                                                                     |                                                                     |                                                                           |                                                                     |  |
| PO #                    |                                                                     |                                                                     |                                                                           |                                                                     |  |
| SAMPLE RECEIPT          | Temp Blank                                                          | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice                                                                   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  |
| Samples Received Intact | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID                                                      |                                                                           |                                                                     |  |
| Cooler Custody Seals    | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Correction Factor                                                   |                                                                           |                                                                     |  |
| Sample Custody Seals    | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Temperature Reading                                                 | 5.5                                                                       |                                                                     |  |
| Total Containers        |                                                                     | Corrected Temperature                                               | 5.5                                                                       |                                                                     |  |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters | ANALYSIS REQUEST | Preservative Codes                                              | Sample Comments           |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------|------------------|-----------------------------------------------------------------|---------------------------|
| BH1                   | S      | 3/3/22       | 10:05A       | 0'6"  | 5         | 1         | TPH 8015M  |                  | None NO                                                         | DI Water H <sub>2</sub> O |
| BH1                   |        |              |              |       |           |           | BTEX 8021B |                  | Cool Cool                                                       | MeOH Me                   |
| BH1                   |        |              |              |       |           |           | CHLORIDE   |                  | HCL HC                                                          | HNO <sub>3</sub> HN       |
| BH1                   |        |              |              |       |           |           |            |                  | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>                   | NaOH Na                   |
| BH1                   |        |              |              |       |           |           |            |                  | H <sub>3</sub> PO <sub>4</sub> HP                               |                           |
| BH1                   |        |              |              |       |           |           |            |                  | NaHSO <sub>4</sub> NABIS                                        |                           |
| BH1                   |        |              |              |       |           |           |            |                  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> |                           |
| BH1                   |        |              |              |       |           |           |            |                  | Zn Acetate+NaOH Zn                                              |                           |
| BH1                   |        |              |              |       |           |           |            |                  | NaOH+Ascorbic Acid SAPC                                         |                           |
| BH2                   |        |              |              |       |           |           |            |                  |                                                                 |                           |
| BH2                   |        |              |              |       |           |           |            |                  |                                                                 |                           |
| BH2                   |        |              |              |       |           |           |            |                  |                                                                 |                           |
| BH2                   |        |              |              |       |           |           |            |                  |                                                                 |                           |
| BH2                   |        |              |              |       |           |           |            |                  |                                                                 |                           |
| BH3                   |        |              |              |       |           |           |            |                  |                                                                 |                           |
| BH3                   |        |              |              |       |           |           |            |                  |                                                                 |                           |
| BH3                   |        |              |              |       |           |           |            |                  |                                                                 |                           |
| BH3                   |        |              |              |       |           |           |            |                  |                                                                 |                           |
| BH3                   |        |              |              |       |           |           |            |                  |                                                                 |                           |

|                                              |                  |                                                      |                                                                                               |
|----------------------------------------------|------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Total 200.7 / 6010                           | 200.8 / 6020:    | 8RCRA 13PPM Texas 11                                 | Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn |
| Circle Method(s) and Metal(s) to be analyzed | TCLP / SPLP 6010 | 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | Hg 1631 / 2451 / 7470 / 7471                                                                  |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xerco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xerco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xerco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xerco, but not analyzed. These terms will be enforced unless previously negotiated.

|                             |                         |           |                             |                         |           |
|-----------------------------|-------------------------|-----------|-----------------------------|-------------------------|-----------|
| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
| 1. Addison                  | 3/4/22                  | 2         |                             |                         |           |
| 3                           |                         | 4         |                             |                         |           |
| 5                           |                         | 6         |                             |                         |           |



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-12038-1  
Client Project/Site: Cabot Q SWD

**For:**

Fasken Oil and Ranch  
6101 Holiday Hill Road  
Midland, Texas 79707

Attn: Grant Huckabay

A handwritten signature in black ink that reads "Kramer".

Authorized for release by:  
3/14/2022 6:44:59 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

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results through  
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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Laboratory Job ID: 880-12038-1

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## Definitions/Glossary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD exceeds control limits                        |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| *1        | LCS/LCSD RPD exceeds control limits.                     |
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

Eurofins Midland

## Case Narrative

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

### Job ID: 880-12038-1

### Laboratory: Eurofins Midland

#### Narrative

#### Job Narrative 880-12038-1

#### Receipt

The samples were received on 3/4/2022 8:06 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-20797 and analytical batch 880-21009 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Batch preparation batch 880-21114 and analytical batch 880-21110 is reported without a matrix spike/matrix spike duplicate (MS/MSD). The batch MS/MSD was originally performed on another client's sample, and this test was not reportable. This MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC Semi VOA

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-20869 and analytical batch 880-21379 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28)

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: BH 4 (880-12038-2). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-20875 and analytical batch 880-21049 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-20876 and analytical batch 880-21141 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

Client Sample ID: BH 4

Lab Sample ID: 880-12038-1

Date Collected: 03/03/22 11:00

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 01:26 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 01:26 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 01:26 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 01:26 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 01:26 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 01:26 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 | 03/07/22 10:47 | 03/08/22 01:26 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 | 03/07/22 10:47 | 03/08/22 01:26 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 |     | mg/Kg |   |          | 03/08/22 10:50 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 03/14/22 10:01 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 02:52 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U *1      | 49.9 |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 02:52 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 02:52 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 109       |           | 70 - 130 | 03/04/22 10:08 | 03/12/22 02:52 | 1       |
| o-Terphenyl    | 121       |           | 70 - 130 | 03/04/22 10:08 | 03/12/22 02:52 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 2270   |           | 25.0 |     | mg/Kg |   |          | 03/09/22 14:49 | 5       |

Client Sample ID: BH 4

Lab Sample ID: 880-12038-2

Date Collected: 03/03/22 11:05

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 01:47 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 01:47 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 01:47 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 01:47 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 01:47 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 01:47 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113       |           | 70 - 130 | 03/07/22 10:47 | 03/08/22 01:47 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

Client Sample ID: BH 4

Lab Sample ID: 880-12038-2

Date Collected: 03/03/22 11:05

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 96        |           | 70 - 130 | 03/07/22 10:47 | 03/08/22 01:47 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/08/22 10:50 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/14/22 10:01 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U                | 50.0          |     | mg/Kg |   | 03/04/22 10:08  | 03/12/22 03:14  | 1              |
| Diesel Range Organics (Over C10-C28) | <50.0            | U *1             | 50.0          |     | mg/Kg |   | 03/04/22 10:08  | 03/12/22 03:14  | 1              |
| Oil Range Organics (Over C28-C36)    | <50.0            | U                | 50.0          |     | mg/Kg |   | 03/04/22 10:08  | 03/12/22 03:14  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 120              |                  | 70 - 130      |     |       |   | 03/04/22 10:08  | 03/12/22 03:14  | 1              |
| o-Terphenyl                          | 135              | S1+              | 70 - 130      |     |       |   | 03/04/22 10:08  | 03/12/22 03:14  | 1              |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1110   |           | 25.0 |     | mg/Kg |   |          | 03/09/22 14:55 | 5       |

Client Sample ID: BH 4

Lab Sample ID: 880-12038-3

Date Collected: 03/03/22 11:10

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:07 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:07 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:07 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:07 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:07 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:07 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 03/07/22 10:47 | 03/08/22 02:07 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 03/07/22 10:47 | 03/08/22 02:07 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 |     | mg/Kg |   |          | 03/08/22 10:50 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 03/14/22 10:01 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

Client Sample ID: BH 4

Lab Sample ID: 880-12038-3

Date Collected: 03/03/22 11:10

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2'

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 03:35 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U *1      | 49.9     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 03:35 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 03:35 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 115       |           | 70 - 130 |     |       |   | 03/04/22 10:08 | 03/12/22 03:35 | 1       |
| o-Terphenyl                          | 128       |           | 70 - 130 |     |       |   | 03/04/22 10:08 | 03/12/22 03:35 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 2310   |           | 50.1 |     | mg/Kg |   |          | 03/09/22 15:00 | 10      |

Client Sample ID: BH 4

Lab Sample ID: 880-12038-4

Date Collected: 03/03/22 11:15

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2.5'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:28 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:28 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:28 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:28 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:28 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:28 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 |     |       |   | 03/07/22 10:47 | 03/08/22 02:28 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 |     |       |   | 03/07/22 10:47 | 03/08/22 02:28 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 03/08/22 10:50 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 03/14/22 10:01 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 03:57 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U *1      | 49.9     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 03:57 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 03:57 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 106       |           | 70 - 130 |     |       |   | 03/04/22 10:08 | 03/12/22 03:57 | 1       |
| o-Terphenyl                          | 118       |           | 70 - 130 |     |       |   | 03/04/22 10:08 | 03/12/22 03:57 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## Client Sample ID: BH 4

Date Collected: 03/03/22 11:15

Date Received: 03/04/22 08:06

Sample Depth: 2.5'

## Lab Sample ID: 880-12038-4

Matrix: Solid

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 936    |           | 24.8 |     | mg/Kg |   |          | 03/09/22 15:06 | 5       |

## Client Sample ID: BH 5

Date Collected: 03/03/22 11:20

Date Received: 03/04/22 08:06

Sample Depth: 0-6'

## Lab Sample ID: 880-12038-5

Matrix: Solid

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:48 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:48 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:48 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:48 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:48 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 02:48 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 91        |           | 70 - 130 |     |       |   | 03/07/22 10:47 | 03/08/22 02:48 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 |     |       |   | 03/07/22 10:47 | 03/08/22 02:48 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 |     | mg/Kg |   |          | 03/08/22 10:50 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/14/22 10:01 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 04:18 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U *1      | 50.0     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 04:18 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 04:18 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 128       |           | 70 - 130 |     |       |   | 03/04/22 10:08 | 03/12/22 04:18 | 1       |
| o-Terphenyl                          | 128       |           | 70 - 130 |     |       |   | 03/04/22 10:08 | 03/12/22 04:18 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 117    |           | 4.97 |     | mg/Kg |   |          | 03/09/22 15:12 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

Client Sample ID: BH 5

Lab Sample ID: 880-12038-6

Date Collected: 03/03/22 11:25

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/08/22 08:59 | 03/08/22 16:58 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/08/22 08:59 | 03/08/22 16:58 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/08/22 08:59 | 03/08/22 16:58 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/08/22 08:59 | 03/08/22 16:58 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/08/22 08:59 | 03/08/22 16:58 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/08/22 08:59 | 03/08/22 16:58 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 | 03/08/22 08:59 | 03/08/22 16:58 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 | 03/08/22 08:59 | 03/08/22 16:58 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/08/22 10:50 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/14/22 10:01 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 04:40 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U *1      | 50.0 |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 04:40 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 04:40 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 117       |           | 70 - 130 | 03/04/22 10:08 | 03/12/22 04:40 | 1       |
| o-Terphenyl    | 130       |           | 70 - 130 | 03/04/22 10:08 | 03/12/22 04:40 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1780   |           | 24.8 |     | mg/Kg |   |          | 03/09/22 15:18 | 5       |

Client Sample ID: BH 5

Lab Sample ID: 880-12038-7

Date Collected: 03/03/22 11:30

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 04:59 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 04:59 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 04:59 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 04:59 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 04:59 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 04:59 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 03/07/22 10:47 | 03/08/22 04:59 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

Client Sample ID: BH 5

Lab Sample ID: 880-12038-7

Date Collected: 03/03/22 11:30

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2'

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 93        |           | 70 - 130 | 03/07/22 10:47 | 03/08/22 04:59 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 |     | mg/Kg |   |          | 03/08/22 10:50 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/14/22 10:01 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 05:01 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U *1      | 50.0     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 05:01 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 05:01 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 113       |           | 70 - 130 |     |       |   | 03/04/22 10:08 | 03/12/22 05:01 | 1       |
| o-Terphenyl                          | 124       |           | 70 - 130 |     |       |   | 03/04/22 10:08 | 03/12/22 05:01 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1120   | F1        | 25.1 |     | mg/Kg |   |          | 03/09/22 14:59 | 5       |

Client Sample ID: BH 5

Lab Sample ID: 880-12038-8

Date Collected: 03/03/22 11:35

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2.5'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 05:19 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 05:19 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 05:19 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 05:19 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 05:19 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/07/22 10:47 | 03/08/22 05:19 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 03/07/22 10:47 | 03/08/22 05:19 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103       |           | 70 - 130 | 03/07/22 10:47 | 03/08/22 05:19 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/08/22 10:50 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 03/14/22 10:01 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

Client Sample ID: BH 5

Lab Sample ID: 880-12038-8

Date Collected: 03/03/22 11:35

Matrix: Solid

Date Received: 03/04/22 08:06

Sample Depth: 2.5'

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 05:23 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U *1      | 49.9     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 05:23 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/04/22 10:08 | 03/12/22 05:23 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 109       |           | 70 - 130 |     |       |   | 03/04/22 10:08 | 03/12/22 05:23 | 1       |
| o-Terphenyl                          | 122       |           | 70 - 130 |     |       |   | 03/04/22 10:08 | 03/12/22 05:23 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 969    |           | 24.9 |     | mg/Kg |   |          | 03/09/22 15:26 | 5       |

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## Surrogate Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                     |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID       | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-12038-1         | BH 4                   | 101                                            | 97                |
| 880-12038-2         | BH 4                   | 113                                            | 96                |
| 880-12038-3         | BH 4                   | 107                                            | 93                |
| 880-12038-4         | BH 4                   | 106                                            | 93                |
| 880-12038-5         | BH 5                   | 91                                             | 91                |
| 880-12038-6         | BH 5                   | 105                                            | 101               |
| 880-12038-7         | BH 5                   | 103                                            | 93                |
| 880-12038-8         | BH 5                   | 109                                            | 103               |
| 880-12112-A-1-C MSD | Matrix Spike Duplicate | 105                                            | 102               |
| 880-12112-A-1-D MS  | Matrix Spike           | 102                                            | 101               |
| 890-2047-A-1-B MS   | Matrix Spike           | 104                                            | 96                |
| 890-2047-A-1-C MSD  | Matrix Spike Duplicate | 104                                            | 90                |
| LCS 880-20797/1-A   | Lab Control Sample     | 97                                             | 101               |
| LCS 880-21114/1-A   | Lab Control Sample     | 97                                             | 101               |
| LCSD 880-20797/2-A  | Lab Control Sample Dup | 97                                             | 101               |
| LCSD 880-21114/2-A  | Lab Control Sample Dup | 96                                             | 98                |
| MB 880-20686/5-A    | Method Blank           | 96                                             | 98                |
| MB 880-20797/5-A    | Method Blank           | 97                                             | 98                |
| MB 880-21114/5-A    | Method Blank           | 98                                             | 98                |

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                     |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID       | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-12025-A-1-B MS  | Matrix Spike           | 110                                            | 113               |
| 880-12025-A-1-C MSD | Matrix Spike Duplicate | 106                                            | 110               |
| 880-12038-1         | BH 4                   | 109                                            | 121               |
| 880-12038-2         | BH 4                   | 120                                            | 135 S1+           |
| 880-12038-3         | BH 4                   | 115                                            | 128               |
| 880-12038-4         | BH 4                   | 106                                            | 118               |
| 880-12038-5         | BH 5                   | 128                                            | 128               |
| 880-12038-6         | BH 5                   | 117                                            | 130               |
| 880-12038-7         | BH 5                   | 113                                            | 124               |
| 880-12038-8         | BH 5                   | 109                                            | 122               |

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Surrogate Summary

Client: Fasken Oil and Ranch

Project/Site: Cabot Q SWD

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Job ID: 880-12038-1

Prep Type: Total/NA

|                      |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|----------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID        | Client Sample ID       | 1CO2<br>(70-130)                               | OTPH2<br>(70-130) |
| LCS 880-20869/2-A    | Lab Control Sample     | 87                                             | 95                |
| LCSD 880-20869/3-A   | Lab Control Sample Dup | 109                                            | 122               |
| MB 880-20869/1-A     | Method Blank           | 102                                            | 118               |
| Surrogate Legend     |                        |                                                |                   |
| 1CO = 1-Chlorooctane |                        |                                                |                   |
| OTPH = o-Terphenyl   |                        |                                                |                   |

## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20686/5-A

Matrix: Solid

Analysis Batch: 21009

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20686

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/02/22 13:10 | 03/07/22 11:39 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/02/22 13:10 | 03/07/22 11:39 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/02/22 13:10 | 03/07/22 11:39 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/02/22 13:10 | 03/07/22 11:39 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/02/22 13:10 | 03/07/22 11:39 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/02/22 13:10 | 03/07/22 11:39 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96           |              | 70 - 130 | 03/02/22 13:10 | 03/07/22 11:39 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98           |              | 70 - 130 | 03/02/22 13:10 | 03/07/22 11:39 | 1       |

Lab Sample ID: MB 880-20797/5-A

Matrix: Solid

Analysis Batch: 21009

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20797

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/07/22 10:47 | 03/07/22 23:16 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/07/22 10:47 | 03/07/22 23:16 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/07/22 10:47 | 03/07/22 23:16 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/07/22 10:47 | 03/07/22 23:16 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/07/22 10:47 | 03/07/22 23:16 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/07/22 10:47 | 03/07/22 23:16 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97           |              | 70 - 130 | 03/07/22 10:47 | 03/07/22 23:16 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98           |              | 70 - 130 | 03/07/22 10:47 | 03/07/22 23:16 | 1       |

Lab Sample ID: LCS 880-20797/1-A

Matrix: Solid

Analysis Batch: 21009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20797

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.1036     |               | mg/Kg |   | 104  | 70 - 130     |
| Toluene             | 0.100       | 0.09792    |               | mg/Kg |   | 98   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.09697    |               | mg/Kg |   | 97   | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2252     |               | mg/Kg |   | 113  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1105     |               | mg/Kg |   | 111  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 97            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101           |               | 70 - 130 |

Lab Sample ID: LCSD 880-20797/2-A

Matrix: Solid

Analysis Batch: 21009

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20797

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene | 0.100       | 0.1030      |                | mg/Kg |   | 103  | 70 - 130     | 1   | 35        |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-20797/2-A

Matrix: Solid

Analysis Batch: 21009

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20797

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Toluene             | 0.100       | 0.09659     |                | mg/Kg |   | 97   | 70 - 130     | 1   | 35        |
| Ethylbenzene        | 0.100       | 0.09538     |                | mg/Kg |   | 95   | 70 - 130     | 2   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2214      |                | mg/Kg |   | 111  | 70 - 130     | 2   | 35        |
| o-Xylene            | 0.100       | 0.1088      |                | mg/Kg |   | 109  | 70 - 130     | 2   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 97             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101            |                | 70 - 130 |

Lab Sample ID: 890-2047-A-1-B MS

Matrix: Solid

Analysis Batch: 21009

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20797

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene             | <0.00200      | U F2 F1          | 0.101       | 0.04972   | F1           | mg/Kg |   | 49   | 70 - 130     |
| Toluene             | 0.00238       | F1               | 0.101       | 0.05509   | F1           | mg/Kg |   | 52   | 70 - 130     |
| Ethylbenzene        | <0.00200      | U F1             | 0.101       | 0.05465   | F1           | mg/Kg |   | 52   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00399      | U F1             | 0.201       | 0.1300    | F1           | mg/Kg |   | 64   | 70 - 130     |
| o-Xylene            | <0.00200      | U F1             | 0.101       | 0.06687   | F1           | mg/Kg |   | 65   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 104          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96           |              | 70 - 130 |

Lab Sample ID: 890-2047-A-1-C MSD

Matrix: Solid

Analysis Batch: 21009

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20797

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00200      | U F2 F1          | 0.100       | 0.03398    | F2 F1         | mg/Kg |   | 34   | 70 - 130     | 38  | 35        |
| Toluene             | 0.00238       | F1               | 0.100       | 0.04041    | F1            | mg/Kg |   | 38   | 70 - 130     | 31  | 35        |
| Ethylbenzene        | <0.00200      | U F1             | 0.100       | 0.04043    | F1            | mg/Kg |   | 39   | 70 - 130     | 30  | 35        |
| m-Xylene & p-Xylene | <0.00399      | U F1             | 0.200       | 0.09428    | F1            | mg/Kg |   | 46   | 70 - 130     | 32  | 35        |
| o-Xylene            | <0.00200      | U F1             | 0.100       | 0.05086    | F1            | mg/Kg |   | 50   | 70 - 130     | 27  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 104           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 90            |               | 70 - 130 |

Lab Sample ID: MB 880-21114/5-A

Matrix: Solid

Analysis Batch: 21110

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21114

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/08/22 08:59 | 03/08/22 15:07 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/08/22 08:59 | 03/08/22 15:07 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/08/22 08:59 | 03/08/22 15:07 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/08/22 08:59 | 03/08/22 15:07 | 1       |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-21114/5-A

Matrix: Solid

Analysis Batch: 21110

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21114

| Analyte        | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| o-Xylene       | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/08/22 08:59 | 03/08/22 15:07 | 1       |
| Xylenes, Total | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/08/22 08:59 | 03/08/22 15:07 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98           |              | 70 - 130 | 03/08/22 08:59 | 03/08/22 15:07 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98           |              | 70 - 130 | 03/08/22 08:59 | 03/08/22 15:07 | 1       |

Lab Sample ID: LCS 880-21114/1-A

Matrix: Solid

Analysis Batch: 21110

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21114

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.1005     |               | mg/Kg |   | 101  | 70 - 130     |
| Toluene             | 0.100       | 0.09834    |               | mg/Kg |   | 98   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.09830    |               | mg/Kg |   | 98   | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2302     |               | mg/Kg |   | 115  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1115     |               | mg/Kg |   | 111  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 97            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21114/2-A

Matrix: Solid

Analysis Batch: 21110

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21114

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene             | 0.100       | 0.09654     |                | mg/Kg |   | 97   | 70 - 130     | 4   | 35    |
| Toluene             | 0.100       | 0.09767     |                | mg/Kg |   | 98   | 70 - 130     | 1   | 35    |
| Ethylbenzene        | 0.100       | 0.09749     |                | mg/Kg |   | 97   | 70 - 130     | 1   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2285      |                | mg/Kg |   | 114  | 70 - 130     | 1   | 35    |
| o-Xylene            | 0.100       | 0.1112      |                | mg/Kg |   | 111  | 70 - 130     | 0   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 96             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 98             |                | 70 - 130 |

Lab Sample ID: 880-12112-A-1-C MSD

Matrix: Solid

Analysis Batch: 21110

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21114

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| Benzene             | <0.00198      | U                | 0.100       | 0.09620    |               | mg/Kg |   |      |              |     |       |
| Toluene             | 0.00280       |                  | 0.100       | 0.08505    |               | mg/Kg |   |      |              |     |       |
| Ethylbenzene        | 0.00736       |                  | 0.100       | 0.07556    |               | mg/Kg |   |      |              |     |       |
| m-Xylene & p-Xylene | 0.0251        |                  | 0.201       | 0.1742     |               | mg/Kg |   |      |              |     |       |
| o-Xylene            | 0.0134        |                  | 0.100       | 0.08581    |               | mg/Kg |   |      |              |     |       |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-12112-A-1-C MSD

Matrix: Solid

Analysis Batch: 21110

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21114

| Surrogate                   | MSD<br>%Recovery | MSD<br>Qualifier | Limits   |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 105              |                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 102              |                  | 70 - 130 |

Lab Sample ID: 880-12112-A-1-D MS

Matrix: Solid

Analysis Batch: 21110

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21114

| Surrogate                   | MS<br>%Recovery | MS<br>Qualifier | Limits   |
|-----------------------------|-----------------|-----------------|----------|
| 4-Bromofluorobenzene (Surr) | 102             |                 | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101             |                 | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-20869/1-A

Matrix: Solid

Analysis Batch: 21379

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20869

| Analyte                              | MB<br>Result    | MB<br>Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0           | U               | 50.0     |     | mg/Kg |   | 03/04/22 10:08 | 03/11/22 21:09 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0           | U               | 50.0     |     | mg/Kg |   | 03/04/22 10:08 | 03/11/22 21:09 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0           | U               | 50.0     |     | mg/Kg |   | 03/04/22 10:08 | 03/11/22 21:09 | 1       |
| Surrogate                            | MB<br>%Recovery | MB<br>Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 102             |                 | 70 - 130 |     |       |   | 03/04/22 10:08 | 03/11/22 21:09 | 1       |
| o-Terphenyl                          | 118             |                 | 70 - 130 |     |       |   | 03/04/22 10:08 | 03/11/22 21:09 | 1       |

Lab Sample ID: LCS 880-20869/2-A

Matrix: Solid

Analysis Batch: 21379

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20869

| Analyte                              | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|-----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 1111             |                  | mg/Kg |   | 111  | 70 - 130        |
| Diesel Range Organics (Over C10-C28) | 1000             | 792.3            |                  | mg/Kg |   | 79   | 70 - 130        |
| Surrogate                            | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                 |
| 1-Chlorooctane                       | 87               |                  | 70 - 130         |       |   |      |                 |
| o-Terphenyl                          | 95               |                  | 70 - 130         |       |   |      |                 |

Lab Sample ID: LCSD 880-20869/3-A

Matrix: Solid

Analysis Batch: 21379

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20869

| Analyte                              | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | Limit |
|--------------------------------------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|-------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 1070           |                   | mg/Kg |   | 107  | 70 - 130        | 4   | 20    |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-20869/3-A

Matrix: Solid

Analysis Batch: 21379

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20869

| Analyte                              | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|----------------|----------------|----------------|-------|---|------|--------------|-----|-----------|
| Diesel Range Organics (Over C10-C28) | 1000           | 1006           | *1             | mg/Kg |   | 101  | 70 - 130     | 24  | 20        |
| Surrogate                            | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      |              |     |           |
| 1-Chlorooctane                       | 109            |                | 70 - 130       |       |   |      |              |     |           |
| o-Terphenyl                          | 122            |                | 70 - 130       |       |   |      |              |     |           |

Lab Sample ID: 880-12025-A-1-B MS

Matrix: Solid

Analysis Batch: 21379

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20869

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 1000        | 1070      |              | mg/Kg |   | 104  | 70 - 130     |     |           |
| Diesel Range Organics (Over C10-C28) | <50.0         | U *1             | 1000        | 1009      |              | mg/Kg |   | 97   | 70 - 130     |     |           |
| Surrogate                            | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |     |           |
| 1-Chlorooctane                       | 110           |                  | 70 - 130    |           |              |       |   |      |              |     |           |
| o-Terphenyl                          | 113           |                  | 70 - 130    |           |              |       |   |      |              |     |           |

Lab Sample ID: 880-12025-A-1-C MSD

Matrix: Solid

Analysis Batch: 21379

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20869

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 998         | 1014       |               | mg/Kg |   | 98   | 70 - 130     | 5   | 20        |
| Diesel Range Organics (Over C10-C28) | <50.0         | U *1             | 998         | 978.5      |               | mg/Kg |   | 94   | 70 - 130     | 3   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| 1-Chlorooctane                       | 106           |                  | 70 - 130    |            |               |       |   |      |              |     |           |
| o-Terphenyl                          | 110           |                  | 70 - 130    |            |               |       |   |      |              |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20875/1-A

Matrix: Solid

Analysis Batch: 21049

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 |     | mg/Kg |   |          | 03/09/22 12:21 | 1       |

Lab Sample ID: LCS 880-20875/2-A

Matrix: Solid

Analysis Batch: 21049

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250         | 253.2      |               | mg/Kg |   | 101  | 90 - 110     |     |           |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-20875/3-A

Matrix: Solid

Analysis Batch: 21049

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250         | 264.4       |                | mg/Kg |   | 106  | 90 - 110     | 4   | 20        |

Lab Sample ID: 880-12035-A-11-B MS

Matrix: Solid

Analysis Batch: 21049

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|-----|-----------|
| Chloride | 2820          | F1               | 1240        | 4250      | F1           | mg/Kg |   | 115  | 90 - 110     |     |           |

Lab Sample ID: 880-12035-A-11-C MSD

Matrix: Solid

Analysis Batch: 21049

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 2820          | F1               | 1240        | 4276       | F1            | mg/Kg |   | 117  | 90 - 110     | 1   | 20        |

Lab Sample ID: 880-12036-A-1-B MS

Matrix: Solid

Analysis Batch: 21049

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|-----|-----------|
| Chloride | 5710          | F1               | 2500        | 9536      | F1           | mg/Kg |   | 153  | 90 - 110     |     |           |

Lab Sample ID: 880-12036-A-1-C MSD

Matrix: Solid

Analysis Batch: 21049

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 5710          | F1               | 2500        | 9393       | F1            | mg/Kg |   | 147  | 90 - 110     | 2   | 20        |

Lab Sample ID: MB 880-20876/1-A

Matrix: Solid

Analysis Batch: 21141

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 |     | mg/Kg |   |          | 03/09/22 14:32 | 1       |

Lab Sample ID: LCS 880-20876/2-A

Matrix: Solid

Analysis Batch: 21141

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250         | 250.4      |               | mg/Kg |   | 100  | 90 - 110     |     |           |

Lab Sample ID: LCSD 880-20876/3-A

Matrix: Solid

Analysis Batch: 21141

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250         | 250.6       |                | mg/Kg |   | 100  | 90 - 110     | 0   | 20        |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-12038-7 MS

Matrix: Solid

Analysis Batch: 21141

Client Sample ID: BH 5

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |  |  |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|--|--|
| Chloride | 1120             | F1                  | 1260           | 2575         | F1              | mg/Kg |   | 116  | 90 - 110        |  |  |

Lab Sample ID: 880-12038-7 MSD

Matrix: Solid

Analysis Batch: 21141

Client Sample ID: BH 5

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 1120             | F1                  | 1260           | 2481          |                  | mg/Kg |   | 108  | 90 - 110        | 4   | 20           |

## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## GC VOA

## Prep Batch: 20686

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-20686/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 20797

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-12038-1        | BH 4                   | Total/NA  | Solid  | 5035   |            |
| 880-12038-2        | BH 4                   | Total/NA  | Solid  | 5035   |            |
| 880-12038-3        | BH 4                   | Total/NA  | Solid  | 5035   |            |
| 880-12038-4        | BH 4                   | Total/NA  | Solid  | 5035   |            |
| 880-12038-5        | BH 5                   | Total/NA  | Solid  | 5035   |            |
| 880-12038-7        | BH 5                   | Total/NA  | Solid  | 5035   |            |
| 880-12038-8        | BH 5                   | Total/NA  | Solid  | 5035   |            |
| MB 880-20797/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-20797/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-20797/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2047-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2047-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21009

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-12038-1        | BH 4                   | Total/NA  | Solid  | 8021B  | 20797      |
| 880-12038-2        | BH 4                   | Total/NA  | Solid  | 8021B  | 20797      |
| 880-12038-3        | BH 4                   | Total/NA  | Solid  | 8021B  | 20797      |
| 880-12038-4        | BH 4                   | Total/NA  | Solid  | 8021B  | 20797      |
| 880-12038-5        | BH 5                   | Total/NA  | Solid  | 8021B  | 20797      |
| 880-12038-7        | BH 5                   | Total/NA  | Solid  | 8021B  | 20797      |
| 880-12038-8        | BH 5                   | Total/NA  | Solid  | 8021B  | 20797      |
| MB 880-20686/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 20686      |
| MB 880-20797/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 20797      |
| LCS 880-20797/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 20797      |
| LCSD 880-20797/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 20797      |
| 890-2047-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 20797      |
| 890-2047-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 20797      |

## Analysis Batch: 21110

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-12038-6         | BH 5                   | Total/NA  | Solid  | 8021B  | 21114      |
| MB 880-21114/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 21114      |
| LCS 880-21114/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 21114      |
| LCSD 880-21114/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 21114      |
| 880-12112-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 21114      |
| 880-12112-A-1-D MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 21114      |

## Prep Batch: 21114

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-12038-6         | BH 5                   | Total/NA  | Solid  | 5035   |            |
| MB 880-21114/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-21114/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-21114/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-12112-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |
| 880-12112-A-1-D MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |

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## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## GC VOA

## Analysis Batch: 21122

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-12038-1   | BH 4             | Total/NA  | Solid  | Total BTEX |            |
| 880-12038-2   | BH 4             | Total/NA  | Solid  | Total BTEX |            |
| 880-12038-3   | BH 4             | Total/NA  | Solid  | Total BTEX |            |
| 880-12038-4   | BH 4             | Total/NA  | Solid  | Total BTEX |            |
| 880-12038-5   | BH 5             | Total/NA  | Solid  | Total BTEX |            |
| 880-12038-6   | BH 5             | Total/NA  | Solid  | Total BTEX |            |
| 880-12038-7   | BH 5             | Total/NA  | Solid  | Total BTEX |            |
| 880-12038-8   | BH 5             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 20869

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 880-12038-1         | BH 4                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12038-2         | BH 4                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12038-3         | BH 4                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12038-4         | BH 4                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12038-5         | BH 5                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12038-6         | BH 5                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12038-7         | BH 5                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12038-8         | BH 5                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-20869/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-20869/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-20869/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12025-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12025-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21379

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-12038-1         | BH 4                   | Total/NA  | Solid  | 8015B NM | 20869      |
| 880-12038-2         | BH 4                   | Total/NA  | Solid  | 8015B NM | 20869      |
| 880-12038-3         | BH 4                   | Total/NA  | Solid  | 8015B NM | 20869      |
| 880-12038-4         | BH 4                   | Total/NA  | Solid  | 8015B NM | 20869      |
| 880-12038-5         | BH 5                   | Total/NA  | Solid  | 8015B NM | 20869      |
| 880-12038-6         | BH 5                   | Total/NA  | Solid  | 8015B NM | 20869      |
| 880-12038-7         | BH 5                   | Total/NA  | Solid  | 8015B NM | 20869      |
| 880-12038-8         | BH 5                   | Total/NA  | Solid  | 8015B NM | 20869      |
| MB 880-20869/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 20869      |
| LCS 880-20869/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 20869      |
| LCSD 880-20869/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 20869      |
| 880-12025-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 20869      |
| 880-12025-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 20869      |

## Analysis Batch: 21517

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-12038-1   | BH 4             | Total/NA  | Solid  | 8015 NM |            |
| 880-12038-2   | BH 4             | Total/NA  | Solid  | 8015 NM |            |
| 880-12038-3   | BH 4             | Total/NA  | Solid  | 8015 NM |            |
| 880-12038-4   | BH 4             | Total/NA  | Solid  | 8015 NM |            |
| 880-12038-5   | BH 5             | Total/NA  | Solid  | 8015 NM |            |
| 880-12038-6   | BH 5             | Total/NA  | Solid  | 8015 NM |            |

Eurofins Midland

## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## GC Semi VOA (Continued)

## Analysis Batch: 21517 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-12038-7   | BH 5             | Total/NA  | Solid  | 8015 NM |            |
| 880-12038-8   | BH 5             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 20875

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 880-12038-1          | BH 4                   | Soluble   | Solid  | DI Leach |            |
| 880-12038-2          | BH 4                   | Soluble   | Solid  | DI Leach |            |
| 880-12038-3          | BH 4                   | Soluble   | Solid  | DI Leach |            |
| 880-12038-4          | BH 4                   | Soluble   | Solid  | DI Leach |            |
| 880-12038-5          | BH 5                   | Soluble   | Solid  | DI Leach |            |
| 880-12038-6          | BH 5                   | Soluble   | Solid  | DI Leach |            |
| MB 880-20875/1-A     | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-20875/2-A    | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-20875/3-A   | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-12035-A-11-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-12035-A-11-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |
| 880-12036-A-1-B MS   | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-12036-A-1-C MSD  | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Leach Batch: 20876

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-12038-7        | BH 5                   | Soluble   | Solid  | DI Leach |            |
| 880-12038-8        | BH 5                   | Soluble   | Solid  | DI Leach |            |
| MB 880-20876/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-20876/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-20876/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-12038-7 MS     | BH 5                   | Soluble   | Solid  | DI Leach |            |
| 880-12038-7 MSD    | BH 5                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 21049

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-12038-1          | BH 4                   | Soluble   | Solid  | 300.0  | 20875      |
| 880-12038-2          | BH 4                   | Soluble   | Solid  | 300.0  | 20875      |
| 880-12038-3          | BH 4                   | Soluble   | Solid  | 300.0  | 20875      |
| 880-12038-4          | BH 4                   | Soluble   | Solid  | 300.0  | 20875      |
| 880-12038-5          | BH 5                   | Soluble   | Solid  | 300.0  | 20875      |
| 880-12038-6          | BH 5                   | Soluble   | Solid  | 300.0  | 20875      |
| MB 880-20875/1-A     | Method Blank           | Soluble   | Solid  | 300.0  | 20875      |
| LCS 880-20875/2-A    | Lab Control Sample     | Soluble   | Solid  | 300.0  | 20875      |
| LCSD 880-20875/3-A   | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 20875      |
| 880-12035-A-11-B MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 20875      |
| 880-12035-A-11-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 20875      |
| 880-12036-A-1-B MS   | Matrix Spike           | Soluble   | Solid  | 300.0  | 20875      |
| 880-12036-A-1-C MSD  | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 20875      |

## Analysis Batch: 21141

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 880-12038-7   | BH 5             | Soluble   | Solid  | 300.0  | 20876      |
| 880-12038-8   | BH 5             | Soluble   | Solid  | 300.0  | 20876      |

Eurofins Midland

## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

## HPLC/IC (Continued)

## Analysis Batch: 21141 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| MB 880-20876/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 20876      |
| LCS 880-20876/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 20876      |
| LCSD 880-20876/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 20876      |
| 880-12038-7 MS     | BH 5                   | Soluble   | Solid  | 300.0  | 20876      |
| 880-12038-7 MSD    | BH 5                   | Soluble   | Solid  | 300.0  | 20876      |

## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

Client Sample ID: BH 4

Lab Sample ID: 880-12038-1

Date Collected: 03/03/22 11:00

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 20797        | 03/07/22 10:47       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21009        | 03/08/22 01:26       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21122        | 03/08/22 10:50       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21517        | 03/14/22 10:01       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 20869        | 03/04/22 10:08       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21379        | 03/12/22 02:52       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 20875        | 03/04/22 10:41       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 21049        | 03/09/22 14:49       | CH      | XEN MID |

Client Sample ID: BH 4

Lab Sample ID: 880-12038-2

Date Collected: 03/03/22 11:05

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 20797        | 03/07/22 10:47       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21009        | 03/08/22 01:47       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21122        | 03/08/22 10:50       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21517        | 03/14/22 10:01       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 20869        | 03/04/22 10:08       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21379        | 03/12/22 03:14       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 20875        | 03/04/22 10:41       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 21049        | 03/09/22 14:55       | CH      | XEN MID |

Client Sample ID: BH 4

Lab Sample ID: 880-12038-3

Date Collected: 03/03/22 11:10

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 20797        | 03/07/22 10:47       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21009        | 03/08/22 02:07       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21122        | 03/08/22 10:50       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21517        | 03/14/22 10:01       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 20869        | 03/04/22 10:08       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21379        | 03/12/22 03:35       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 20875        | 03/04/22 10:41       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 21049        | 03/09/22 15:00       | CH      | XEN MID |

Client Sample ID: BH 4

Lab Sample ID: 880-12038-4

Date Collected: 03/03/22 11:15

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 20797        | 03/07/22 10:47       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21009        | 03/08/22 02:28       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21122        | 03/08/22 10:50       | AJ      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

Client Sample ID: BH 4

Lab Sample ID: 880-12038-4

Date Collected: 03/03/22 11:15

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21517        | 03/14/22 10:01       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 20869        | 03/04/22 10:08       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21379        | 03/12/22 03:57       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 20875        | 03/04/22 10:41       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 21049        | 03/09/22 15:06       | CH      | XEN MID |

Client Sample ID: BH 5

Lab Sample ID: 880-12038-5

Date Collected: 03/03/22 11:20

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 20797        | 03/07/22 10:47       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21009        | 03/08/22 02:48       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21122        | 03/08/22 10:50       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21517        | 03/14/22 10:01       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 20869        | 03/04/22 10:08       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21379        | 03/12/22 04:18       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 20875        | 03/04/22 10:41       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 21049        | 03/09/22 15:12       | CH      | XEN MID |

Client Sample ID: BH 5

Lab Sample ID: 880-12038-6

Date Collected: 03/03/22 11:25

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 21114        | 03/08/22 08:59       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21110        | 03/08/22 16:58       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21122        | 03/08/22 10:50       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21517        | 03/14/22 10:01       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 20869        | 03/04/22 10:08       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21379        | 03/12/22 04:40       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 20875        | 03/04/22 10:41       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 21049        | 03/09/22 15:18       | CH      | XEN MID |

Client Sample ID: BH 5

Lab Sample ID: 880-12038-7

Date Collected: 03/03/22 11:30

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 20797        | 03/07/22 10:47       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21009        | 03/08/22 04:59       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21122        | 03/08/22 10:50       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21517        | 03/14/22 10:01       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 20869        | 03/04/22 10:08       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21379        | 03/12/22 05:01       | AJ      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

Client Sample ID: BH 5

Lab Sample ID: 880-12038-7

Date Collected: 03/03/22 11:30

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 20876        | 03/04/22 10:44       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 21141        | 03/09/22 14:59       | CH      | XEN MID |

Client Sample ID: BH 5

Lab Sample ID: 880-12038-8

Date Collected: 03/03/22 11:35

Matrix: Solid

Date Received: 03/04/22 08:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 20797        | 03/07/22 10:47       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21009        | 03/08/22 05:19       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21122        | 03/08/22 10:50       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21517        | 03/14/22 10:01       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 20869        | 03/04/22 10:08       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21379        | 03/12/22 05:23       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 20876        | 03/04/22 10:44       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 21141        | 03/09/22 15:26       | CH      | XEN MID |

## Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-----------------|
| Texas                                                                                                                                                                                                 | NELAP       | T104704400-21-22      | 06-30-22        |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                 |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte         |
| 8015 NM                                                                                                                                                                                               |             | Solid                 | Total TPH       |
| Total BTEX                                                                                                                                                                                            |             | Solid                 | Total BTEX      |

## Method Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

### Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

## Sample Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12038-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-12038-1   | BH 4             | Solid  | 03/03/22 11:00 | 03/04/22 08:06 | 0-6"  |
| 880-12038-2   | BH 4             | Solid  | 03/03/22 11:05 | 03/04/22 08:06 | 1'    |
| 880-12038-3   | BH 4             | Solid  | 03/03/22 11:10 | 03/04/22 08:06 | 2'    |
| 880-12038-4   | BH 4             | Solid  | 03/03/22 11:15 | 03/04/22 08:06 | 2.5'  |
| 880-12038-5   | BH 5             | Solid  | 03/03/22 11:20 | 03/04/22 08:06 | 0-6'  |
| 880-12038-6   | BH 5             | Solid  | 03/03/22 11:25 | 03/04/22 08:06 | 1'    |
| 880-12038-7   | BH 5             | Solid  | 03/03/22 11:30 | 03/04/22 08:06 | 2'    |
| 880-12038-8   | BH 5             | Solid  | 03/03/22 11:35 | 03/04/22 08:06 | 2.5'  |



Environmental Testing  
Xenoco

Houston TX (281) 240-4200 Dallas TX (214) 902-0300  
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334  
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296  
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 12038

www.xenoco.com Page 1 of 1

|                 |                        |                        |                                   |
|-----------------|------------------------|------------------------|-----------------------------------|
| Project Manager | Grant Huckabay         | Bill to (if different) |                                   |
| Company Name    | Fasken Oil and Ranch   | Company Name           |                                   |
| Address         | 6101 Holiday Hill Road | Address                |                                   |
| City, State ZIP | Midland TX 79707       | City State ZIP         |                                   |
| Phone           | 432-288-5529           | Email                  | grant@forl.com, Addisong@forl.com |

|                     |                                                                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order Comments |                                                                                                                                                                       |
| Program             | UST/PRP <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>    |
| State of Project    |                                                                                                                                                                       |
| Reporting Level     | Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Deliverables        | EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other <input type="checkbox"/>                                                                            |

|                         |                                                                     |                                                              |                                                                           |            |                                                                     |
|-------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------|------------|---------------------------------------------------------------------|
| Project Name            | CHBOT R SWD                                                         | Turn Around                                                  | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code |                                                                     |
| Project Number          |                                                                     | Due Date                                                     | 3/10/22                                                                   |            |                                                                     |
| Project Location        | Addison Gueltner                                                    | TAT starts the day received by the lab if received by 4:30pm |                                                                           |            |                                                                     |
| Sampler's Name          |                                                                     |                                                              |                                                                           |            |                                                                     |
| PO #                    |                                                                     |                                                              |                                                                           |            |                                                                     |
| SAMPLE RECEIPT          |                                                                     | Temp Blank                                                   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>       | Wet Ice    | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Samples Received Intact | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID                                               | JF8                                                                       |            |                                                                     |
| Cooler Custody Seals    | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Correction Factor                                            | -1.1                                                                      |            |                                                                     |
| Sample Custody Seals    | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Temperature Reading                                          | 5.6                                                                       |            |                                                                     |
| Total Containers        |                                                                     | Corrected Temperature                                        | 5.5                                                                       |            |                                                                     |
| Parameters              |                                                                     |                                                              |                                                                           |            |                                                                     |
| TPH 8015M               |                                                                     |                                                              |                                                                           |            |                                                                     |
| BTX 8021B               |                                                                     |                                                              |                                                                           |            |                                                                     |
| CHLORIDE                |                                                                     |                                                              |                                                                           |            |                                                                     |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | ANALYSIS REQUEST | Preservative Codes                                              | Sample Comments           |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------------|-----------------------------------------------------------------|---------------------------|
| BH4                   | S      | 3/3/22       | 11:00 A      | 0-6"  | G         | 1         | X                | None NO                                                         | DI Water H <sub>2</sub> O |
| BH4                   |        |              | 11:05 A      | 1'    |           |           | X                | Cool Cool                                                       | MeOH Me                   |
| BH4                   |        |              | 11:10 A      | 2'    |           |           | X                | HCL HC                                                          | HNO <sub>3</sub> HN       |
| BH4                   |        |              | 11:15 A      | 2.5'  |           |           | X                | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>                   | NaOH Na                   |
| BH5                   |        |              | 11:20 A      | 6-6"  |           |           |                  | H <sub>3</sub> PO <sub>4</sub> HP                               |                           |
| BH5                   |        |              | 11:25 A      | 1'    |           |           |                  | NaHSO <sub>4</sub> NABIS                                        |                           |
| BH5                   |        |              | 11:30 A      | 2'    |           |           |                  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> |                           |
| BH5                   |        |              | 11:35 A      | 2.5'  |           |           |                  | Zn Acetate+NaOH Zn                                              |                           |
| BH5                   |        |              |              |       |           |           |                  | NaOH+Ascorbic Acid SPC                                          |                           |



Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 2451 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenoco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenoco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.

|                             |                         |             |                             |                         |           |
|-----------------------------|-------------------------|-------------|-----------------------------|-------------------------|-----------|
| Relinquished by (Signature) | Received by (Signature) | Date/Time   | Relinquished by (Signature) | Received by (Signature) | Date/Time |
| 1. <i>[Signature]</i>       | 2. <i>[Signature]</i>   | 3/4/22 8:00 | 3. <i>[Signature]</i>       | 4. <i>[Signature]</i>   |           |
| 5. <i>[Signature]</i>       | 6. <i>[Signature]</i>   |             |                             |                         |           |

## Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-12038-1

Login Number: 12038

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-12599-1  
Client Project/Site: Cabot Q SWD

**For:**

Fasken Oil and Ranch  
6101 Holiday Hill Road  
Midland, Texas 79707

Attn: Grant Huckabay

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
3/21/2022 1:38:18 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Laboratory Job ID: 880-12599-1

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## Definitions/Glossary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| SQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

## Case Narrative

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

**Job ID: 880-12599-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-12599-1****Receipt**

The samples were received on 3/18/2022 3:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C

**GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: BH6 (880-12599-2). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

Method 300\_ORGFM\_28D: The continuing calibration blank (CCB) for analytical batch 880-21949 contained Chloride above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

Client Sample ID: BH6

Lab Sample ID: 880-12599-1

Date Collected: 03/18/22 11:00

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 17:24 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 17:24 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 17:24 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 17:24 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 17:24 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 17:24 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 17:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 17:24 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 03/21/22 13:26 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/21/22 11:56 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 00:41 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 00:41 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 00:41 | 1       |
| Total TPH                            | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 00:41 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 97        |           | 70 - 130 | 03/18/22 17:07 | 03/20/22 00:41 | 1       |
| o-Terphenyl    | 107       |           | 70 - 130 | 03/18/22 17:07 | 03/20/22 00:41 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 232    |           | 5.04 |     | mg/Kg |   |          | 03/19/22 16:03 | 1       |

Client Sample ID: BH6

Lab Sample ID: 880-12599-2

Date Collected: 03/18/22 11:05

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 17:44 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 17:44 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 17:44 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 17:44 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 17:44 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 17:44 | 1       |

Eurofins Midland

## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

Client Sample ID: BH6

Lab Sample ID: 880-12599-2

Date Collected: 03/18/22 11:05

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 17:44 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 17:44 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/21/22 13:26 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 03/21/22 11:56 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 01:02 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 01:02 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 01:02 | 1       |
| Total TPH                            | <49.9  | U         | 49.9 |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 01:02 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 117       |           | 70 - 130 | 03/18/22 17:07 | 03/20/22 01:02 | 1       |
| o-Terphenyl    | 141       | S1+       | 70 - 130 | 03/18/22 17:07 | 03/20/22 01:02 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1070   |           | 25.1 |     | mg/Kg |   |          | 03/19/22 16:13 | 5       |

Client Sample ID: BH6

Lab Sample ID: 880-12599-3

Date Collected: 03/18/22 11:10

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1.75'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:05 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:05 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:05 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:05 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:05 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:05 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 18:05 | 1       |
| 1,4-Difluorobenzene (Surr)  | 112       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 18:05 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 |     | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

Client Sample ID: BH6

Lab Sample ID: 880-12599-3

Date Collected: 03/18/22 11:10

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1.75'

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/21/22 11:56 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 01:22 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 01:22 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 01:22 | 1       |
| Total TPH                            | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 01:22 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 96        |           | 70 - 130 |     |       |   | 03/18/22 17:07 | 03/20/22 01:22 | 1       |
| o-Terphenyl                          | 112       |           | 70 - 130 |     |       |   | 03/18/22 17:07 | 03/20/22 01:22 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 921    |           | 25.1 |     | mg/Kg |   |          | 03/19/22 16:23 | 5       |

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## Surrogate Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-12315-A-11-F MS               | Matrix Spike           | 104                                            | 111               |
| 880-12315-A-11-G MSD              | Matrix Spike Duplicate | 105                                            | 111               |
| 880-12599-1                       | BH6                    | 104                                            | 109               |
| 880-12599-2                       | BH6                    | 103                                            | 108               |
| 880-12599-3                       | BH6                    | 108                                            | 112               |
| LCS 880-21935/1-A                 | Lab Control Sample     | 103                                            | 111               |
| LCSD 880-21935/2-A                | Lab Control Sample Dup | 104                                            | 112               |
| MB 880-21935/5-A                  | Method Blank           | 104                                            | 105               |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |                                                |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |                                                |                   |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-12599-1             | BH6                    | 97                                             | 107               |
| 880-12599-2             | BH6                    | 117                                            | 141 S1+           |
| 880-12599-3             | BH6                    | 96                                             | 112               |
| 880-12602-A-1-C MS      | Matrix Spike           | 94                                             | 97                |
| 880-12602-A-1-D MSD     | Matrix Spike Duplicate | 92                                             | 92                |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO2<br>(70-130)                               | OTPH2<br>(70-130) |
| LCS 880-21925/2-A       | Lab Control Sample     | 103                                            | 120               |
| LCSD 880-21925/3-A      | Lab Control Sample Dup | 108                                            | 126               |
| MB 880-21925/1-A        | Method Blank           | 101                                            | 126               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21935/5-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104          |              | 70 - 130 | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105          |              | 70 - 130 | 03/19/22 09:25 | 03/19/22 12:36 | 1       |

Lab Sample ID: LCS 880-21935/1-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.1011     |               | mg/Kg |   | 101  | 70 - 130     |
| Toluene             | 0.100       | 0.1005     |               | mg/Kg |   | 100  | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1025     |               | mg/Kg |   | 102  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2105     |               | mg/Kg |   | 105  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1021     |               | mg/Kg |   | 102  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 103           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21935/2-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene             | 0.100       | 0.1095      |                | mg/Kg |   | 109  | 70 - 130     | 8   | 35    |
| Toluene             | 0.100       | 0.1081      |                | mg/Kg |   | 108  | 70 - 130     | 7   | 35    |
| Ethylbenzene        | 0.100       | 0.1096      |                | mg/Kg |   | 110  | 70 - 130     | 7   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2259      |                | mg/Kg |   | 113  | 70 - 130     | 7   | 35    |
| o-Xylene            | 0.100       | 0.1096      |                | mg/Kg |   | 110  | 70 - 130     | 7   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 104            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 112            |                | 70 - 130 |

Lab Sample ID: 880-12315-A-11-F MS

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21935

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <0.00202      | U                | 0.100       | 0.08164   |              | mg/Kg |   | 81   | 70 - 130     |
| Toluene | <0.00202      | U                | 0.100       | 0.07915   |              | mg/Kg |   | 79   | 70 - 130     |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-12315-A-11-F MS

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Ethylbenzene        | <0.00202      | U                | 0.100       | 0.07729   |              | mg/Kg |   | 77   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00404      | U                | 0.200       | 0.1611    |              | mg/Kg |   | 80   | 70 - 130     |
| o-Xylene            | <0.00202      | U                | 0.100       | 0.07937   |              | mg/Kg |   | 79   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 104          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111          |              | 70 - 130 |

Lab Sample ID: 880-12315-A-11-G MSD

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00202      | U                | 0.100       | 0.08491    |               | mg/Kg |   | 85   | 70 - 130     | 4   | 35        |
| Toluene             | <0.00202      | U                | 0.100       | 0.08152    |               | mg/Kg |   | 81   | 70 - 130     | 3   | 35        |
| Ethylbenzene        | <0.00202      | U                | 0.100       | 0.08010    |               | mg/Kg |   | 80   | 70 - 130     | 4   | 35        |
| m-Xylene & p-Xylene | <0.00404      | U                | 0.200       | 0.1651     |               | mg/Kg |   | 82   | 70 - 130     | 2   | 35        |
| o-Xylene            | <0.00202      | U                | 0.100       | 0.08108    |               | mg/Kg |   | 81   | 70 - 130     | 2   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 105           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111           |               | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-21925/1-A

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 20:54 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 20:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 20:54 | 1       |
| Total TPH                            | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 20:54 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 101          |              | 70 - 130 | 03/18/22 17:07 | 03/19/22 20:54 | 1       |
| o-Terphenyl    | 126          |              | 70 - 130 | 03/18/22 17:07 | 03/19/22 20:54 | 1       |

Lab Sample ID: LCS 880-21925/2-A

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 883.2      |               | mg/Kg |   | 88   | 70 - 130     |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-21925/2-A

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Diesel Range Organics (Over C10-C28) | 1000        | 946.5      |               | mg/Kg |   | 95   | 70 - 130     |

|                | LCS %Recovery | LCS Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| Surrogate      |               |               |          |
| 1-Chlorooctane | 103           |               | 70 - 130 |
| o-Terphenyl    | 120           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21925/3-A

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1008        |                | mg/Kg |   | 101  | 70 - 130     | 13  | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 1156        |                | mg/Kg |   | 116  | 70 - 130     | 20  | 20        |

|                | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------|----------------|----------------|----------|
| Surrogate      |                |                |          |
| 1-Chlorooctane | 108            |                | 70 - 130 |
| o-Terphenyl    | 126            |                | 70 - 130 |

Lab Sample ID: 880-12602-A-1-C MS

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 896.0     |              | mg/Kg |   | 88   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 998         | 904.8     |              | mg/Kg |   | 87   | 70 - 130     |

|                | MS %Recovery | MS Qualifier | Limits   |
|----------------|--------------|--------------|----------|
| Surrogate      |              |              |          |
| 1-Chlorooctane | 94           |              | 70 - 130 |
| o-Terphenyl    | 97           |              | 70 - 130 |

Lab Sample ID: 880-12602-A-1-D MSD

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 999         | 909.4      |               | mg/Kg |   | 89   | 70 - 130     | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 999         | 870.4      |               | mg/Kg |   | 84   | 70 - 130     | 4   | 20        |

|                | MSD %Recovery | MSD Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| Surrogate      |               |               |          |
| 1-Chlorooctane | 92            |               | 70 - 130 |
| o-Terphenyl    | 92            |               | 70 - 130 |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21308/1-A

Matrix: Solid

Analysis Batch: 21949

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 |     | mg/Kg |   |          | 03/19/22 11:23 | 1       |

Lab Sample ID: LCS 880-21308/2-A

Matrix: Solid

Analysis Batch: 21949

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|-----------------|
| Chloride | 250            | 257.8         |                  | mg/Kg |   | 103  | 90 - 110        |

Lab Sample ID: LCSD 880-21308/3-A

Matrix: Solid

Analysis Batch: 21949

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 250            | 257.9          |                   | mg/Kg |   | 103  | 90 - 110        | 0   | 20           |

Lab Sample ID: 890-2059-A-5-E MS

Matrix: Solid

Analysis Batch: 21949

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Chloride | 245              | ^2                  | 249            | 495.1        |                 | mg/Kg |   | 101  | 90 - 110        |

Lab Sample ID: 890-2059-A-5-F MSD

Matrix: Solid

Analysis Batch: 21949

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 245              | ^2                  | 249            | 491.3         |                  | mg/Kg |   | 99   | 90 - 110        | 1   | 20           |

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## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

## GC VOA

## Prep Batch: 21935

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-12599-1          | BH6                    | Total/NA  | Solid  | 5035   |            |
| 880-12599-2          | BH6                    | Total/NA  | Solid  | 5035   |            |
| 880-12599-3          | BH6                    | Total/NA  | Solid  | 5035   |            |
| MB 880-21935/5-A     | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-21935/1-A    | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-21935/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-12315-A-11-F MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-12315-A-11-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21936

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-12599-1          | BH6                    | Total/NA  | Solid  | 8021B  | 21935      |
| 880-12599-2          | BH6                    | Total/NA  | Solid  | 8021B  | 21935      |
| 880-12599-3          | BH6                    | Total/NA  | Solid  | 8021B  | 21935      |
| MB 880-21935/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 21935      |
| LCS 880-21935/1-A    | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 21935      |
| LCSD 880-21935/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 21935      |
| 880-12315-A-11-F MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 21935      |
| 880-12315-A-11-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 21935      |

## Analysis Batch: 22075

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-12599-1   | BH6              | Total/NA  | Solid  | Total BTEX |            |
| 880-12599-2   | BH6              | Total/NA  | Solid  | Total BTEX |            |
| 880-12599-3   | BH6              | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 21925

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 880-12599-1         | BH6                    | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12599-2         | BH6                    | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12599-3         | BH6                    | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-21925/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-21925/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-21925/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12602-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12602-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21937

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-12599-1         | BH6                    | Total/NA  | Solid  | 8015B NM | 21925      |
| 880-12599-2         | BH6                    | Total/NA  | Solid  | 8015B NM | 21925      |
| 880-12599-3         | BH6                    | Total/NA  | Solid  | 8015B NM | 21925      |
| MB 880-21925/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 21925      |
| LCS 880-21925/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 21925      |
| LCSD 880-21925/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 21925      |
| 880-12602-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 21925      |
| 880-12602-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 21925      |

Eurofins Midland

## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

## GC Semi VOA

## Analysis Batch: 22046

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-12599-1   | BH6              | Total/NA  | Solid  | 8015 NM |            |
| 880-12599-2   | BH6              | Total/NA  | Solid  | 8015 NM |            |
| 880-12599-3   | BH6              | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 21308

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-12599-1        | BH6                    | Soluble   | Solid  | DI Leach |            |
| 880-12599-2        | BH6                    | Soluble   | Solid  | DI Leach |            |
| 880-12599-3        | BH6                    | Soluble   | Solid  | DI Leach |            |
| MB 880-21308/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-21308/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-21308/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2059-A-5-E MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-2059-A-5-F MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 21949

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-12599-1        | BH6                    | Soluble   | Solid  | 300.0  | 21308      |
| 880-12599-2        | BH6                    | Soluble   | Solid  | 300.0  | 21308      |
| 880-12599-3        | BH6                    | Soluble   | Solid  | 300.0  | 21308      |
| MB 880-21308/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 21308      |
| LCS 880-21308/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 21308      |
| LCSD 880-21308/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 21308      |
| 890-2059-A-5-E MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 21308      |
| 890-2059-A-5-F MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 21308      |

## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

Client Sample ID: BH6

Lab Sample ID: 880-12599-1

Date Collected: 03/18/22 11:00

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 21935        | 03/19/22 09:25       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21936        | 03/19/22 17:24       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22075        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22046        | 03/21/22 11:56       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 21925        | 03/18/22 17:07       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21937        | 03/20/22 00:41       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 21308        | 03/18/22 16:45       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 21949        | 03/19/22 16:03       | SC      | XEN MID |

Client Sample ID: BH6

Lab Sample ID: 880-12599-2

Date Collected: 03/18/22 11:05

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 21935        | 03/19/22 09:25       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21936        | 03/19/22 17:44       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22075        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22046        | 03/21/22 11:56       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 21925        | 03/18/22 17:07       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21937        | 03/20/22 01:02       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 21308        | 03/18/22 16:45       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 21949        | 03/19/22 16:13       | SC      | XEN MID |

Client Sample ID: BH6

Lab Sample ID: 880-12599-3

Date Collected: 03/18/22 11:10

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 21935        | 03/19/22 09:25       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21936        | 03/19/22 18:05       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22075        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22046        | 03/21/22 11:56       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 21925        | 03/18/22 17:07       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21937        | 03/20/22 01:22       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 21308        | 03/18/22 16:45       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 21949        | 03/19/22 16:23       | SC      | XEN MID |

## Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-21-22      | 06-30-22        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte    |
|-----------------|-------------|--------|------------|
| 8015 NM         |             | Solid  | Total TPH  |
| 8015B NM        | 8015NM Prep | Solid  | Total TPH  |
| Total BTEX      |             | Solid  | Total BTEX |

## Method Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

## Sample Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12599-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-12599-1   | BH6              | Solid  | 03/18/22 11:00 | 03/18/22 15:12 | 0-6"  |
| 880-12599-2   | BH6              | Solid  | 03/18/22 11:05 | 03/18/22 15:12 | 1'    |
| 880-12599-3   | BH6              | Solid  | 03/18/22 11:10 | 03/18/22 15:12 | 1.75' |

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[illegible]

Houston TX (281) 240-4200 Dallas TX (214) 902-0300  
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334  
El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

## Chain of Custody

Work Order No: 125019

www.xenco.com Page 1 of 1

|                  |                        |                        |                                     |
|------------------|------------------------|------------------------|-------------------------------------|
| Project Manager: | Grant Huckabay         | Bill to (if different) |                                     |
| Company Name     | Fasken Oil and Ranch   | Company Name           |                                     |
| Address          | 6101 Holiday Hill Road | Address                |                                     |
| City, State ZIP  | Midland TX 79707       | City, State ZIP        |                                     |
| Phone            | 432-687-1777           | Email                  | granth@forl.com / addisong@forl.com |

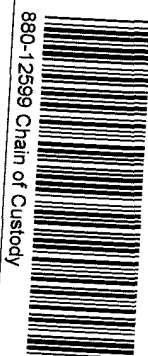
| Work Order Comments |                                                                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Program             | UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>    |
| State of Project    |                                                                                                                                                                       |
| Reporting Level     | Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Deliverables        | EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other <input type="checkbox"/>                                                                            |

|                          |                 |                                                              |                                          |                     |         |    |         |     |    |  |  |  |  |                    |  |                                               |                                                                 |                                   |  |
|--------------------------|-----------------|--------------------------------------------------------------|------------------------------------------|---------------------|---------|----|---------|-----|----|--|--|--|--|--------------------|--|-----------------------------------------------|-----------------------------------------------------------------|-----------------------------------|--|
| Project Name             | CAROT CC SUD    | Turn Around                                                  |                                          | ANALYSIS REQUEST    |         |    |         |     |    |  |  |  |  | Preservative Codes |  |                                               |                                                                 |                                   |  |
| Project Number           |                 | <input type="checkbox"/> Routine                             | <input checked="" type="checkbox"/> Rush | Pres. Code          |         |    |         |     |    |  |  |  |  |                    |  | None NO                                       | DI Water- H <sub>2</sub> O                                      |                                   |  |
| Project Location         |                 |                                                              |                                          | Due Date            | 3/23/22 |    |         |     |    |  |  |  |  |                    |  | Cool Cool                                     | MeOH Me                                                         |                                   |  |
| Sampler's Name.          | Addison Guekter | TAT starts the day received by the lab if received by 4:30pm |                                          |                     |         |    |         |     |    |  |  |  |  |                    |  | HCL HC                                        | HNO <sub>3</sub> HN                                             |                                   |  |
| PO #                     |                 |                                                              |                                          |                     |         |    |         |     |    |  |  |  |  |                    |  | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> | NaOH Na                                                         |                                   |  |
| <b>SAMPLE RECEIPT</b>    |                 |                                                              |                                          | Temp Blank          | Yes     | No | Wet Ice | Yes | No |  |  |  |  |                    |  |                                               |                                                                 | H <sub>3</sub> PO <sub>4</sub> HP |  |
| Samples Received Intact: | Yes             | No                                                           | Thermometer ID                           | JFPE                |         |    |         |     |    |  |  |  |  |                    |  | NaHSO <sub>4</sub> NABIS                      |                                                                 |                                   |  |
| Cooler Custody Seals     | Yes             | No                                                           | N/A                                      | Correction Factor   | 1       |    |         |     |    |  |  |  |  |                    |  |                                               | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> |                                   |  |
| Sample Custody Seals.    | Yes             | No                                                           | N/A                                      | Temperature Reading | 5.2     |    |         |     |    |  |  |  |  |                    |  |                                               | Zn Acetate+NaOH Zn                                              |                                   |  |
| Total Containers         |                 |                                                              | Corrected Temperature                    | 5.1                 |         |    |         |     |    |  |  |  |  |                    |  | NaOH+Ascorbic Acid SAPC                       |                                                                 |                                   |  |

| Sample Identification | Matrix       | Date Sampled       | Time Sampled     | Depth           | Grab/Comp   | # of Cont    | CL          | EC          | TPH 80%     | BTEX 80%    | Sample Comments |
|-----------------------|--------------|--------------------|------------------|-----------------|-------------|--------------|-------------|-------------|-------------|-------------|-----------------|
| BH6                   | S            | 3/18/22            | 11:00            | 0.6"            | G           | 1            | X           |             | X           | X           | 462             |
| BH6                   | S            | 3/18/22            | 11:05            | 1'              | G           | 1            |             |             | X           |             |                 |
| BH6                   | S            | 3/18/22            | 11:10            | 1.75'           |             | 1            |             |             |             |             |                 |
| <del>BH7</del>        | <del>S</del> | <del>3/18/22</del> | <del>11:15</del> | <del>0.6"</del> | <del></del> | <del>1</del> | <del></del> | <del></del> | <del></del> | <del></del> |                 |
| <del>BH7</del>        | <del>S</del> | <del>3/18/22</del> | <del>11:20</del> | <del>1'</del>   | <del></del> | <del>1</del> | <del></del> | <del></del> | <del></del> | <del></del> |                 |
| <del>BH7</del>        | <del>S</del> | <del>3/18/22</del> | <del>11:25</del> | <del>2'</del>   | <del></del> | <del>1</del> | <del></del> | <del></del> | <del></del> | <del></del> |                 |
| <del>BH7</del>        | <del>S</del> | <del>3/18/22</del> | <del>11:25</del> | <del>2'</del>   | <del></del> | <del>1</del> | <del></del> | <del></del> | <del></del> | <del></del> |                 |
| <del>BH7</del>        | <del>S</del> | <del>3/18/22</del> | <del>11:25</del> | <del>2'</del>   | <del></del> | <del>1</del> | <del></del> | <del></del> | <del></del> | <del></del> |                 |
| <del>BH7</del>        | <del>S</del> | <del>3/18/22</del> | <del>11:25</del> | <del>2'</del>   | <del></del> | <del>1</del> | <del></del> | <del></del> | <del></del> | <del></del> |                 |
| <del>BH7</del>        | <del>S</del> | <del>3/18/22</del> | <del>11:25</del> | <del>2'</del>   | <del></del> | <del>1</del> | <del></del> | <del></del> | <del></del> | <del></del> |                 |



880-12599 Chain of Custody



880-12599 Chain of Custody

| Circle Method(s) and Metal(s) to be analyzed                                                                      | 200.8 / 602.0:                                                                                                    | 200.7 / 6010                                                                                                      | Total 200.7 / 6010                                                                                                |
|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca C Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn | 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca C Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn | 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca C Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn | 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca C Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn |
| TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hq 1631 / 245 1 / 7470 / 7471               | TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hq 1631 / 245 1 / 7470 / 7471               | TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hq 1631 / 245 1 / 7470 / 7471               | TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hq 1631 / 245 1 / 7470 / 7471               |

Notice: Signature of this document at relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$35.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xeno. A minimum charge of \$35.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xeno.

| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|-----------------------------|-------------------------|-----------|-----------------------------|-------------------------|-----------|
| <i>[Signature]</i>          | <i>[Signature]</i>      | 3/18/22   |                             |                         |           |
|                             |                         | 5:12      |                             |                         |           |
|                             |                         |           |                             |                         |           |
|                             |                         |           |                             |                         |           |
|                             |                         |           |                             |                         |           |



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-12601-1  
Client Project/Site: Cabot Q SWD

**For:**

Fasken Oil and Ranch  
6101 Holiday Hill Road  
Midland, Texas 79707

Attn: Grant Huckabay

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
3/21/2022 1:38:17 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

Review your project  
results through  
**TotalAccess**

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Laboratory Job ID: 880-12601-1

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## Definitions/Glossary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

## Case Narrative

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

**Job ID: 880-12601-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-12601-1****Receipt**

The samples were received on 3/18/2022 3:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C

**GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

Client Sample ID: S1

Lab Sample ID: 880-12601-1

Date Collected: 03/18/22 12:00

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:25 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:25 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:25 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:25 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:25 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:25 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 18:25 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 18:25 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 |     | mg/Kg |   |          | 03/21/22 13:26 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 73.9   |           | 49.9 |     | mg/Kg |   |          | 03/21/22 11:56 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 23:18 | 1       |
| Diesel Range Organics (Over C10-C28) | 73.9   |           | 49.9 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 23:18 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 23:18 | 1       |
| Total TPH                            | 73.9   |           | 49.9 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 23:18 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 100       |           | 70 - 130 | 03/18/22 17:07 | 03/19/22 23:18 | 1       |
| o-Terphenyl    | 116       |           | 70 - 130 | 03/18/22 17:07 | 03/19/22 23:18 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chloride | 57600  |           | 499 |     | mg/Kg |   |          | 03/19/22 21:23 | 100     |

Client Sample ID: S1

Lab Sample ID: 880-12601-2

Date Collected: 03/18/22 12:05

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:45 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:45 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:45 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:45 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:45 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 18:45 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

## Client Sample ID: S1

Lab Sample ID: 880-12601-2

Date Collected: 03/18/22 12:05

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 18:45 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 18:45 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 03/21/22 13:26 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/21/22 11:56 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 23:39 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 23:39 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 23:39 | 1       |
| Total TPH                            | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 23:39 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 99        |           | 70 - 130 | 03/18/22 17:07 | 03/19/22 23:39 | 1       |
| o-Terphenyl    | 119       |           | 70 - 130 | 03/18/22 17:07 | 03/19/22 23:39 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 2560   |           | 24.9 |     | mg/Kg |   |          | 03/19/22 21:34 | 5       |

## Client Sample ID: S2

Lab Sample ID: 880-12601-3

Date Collected: 03/18/22 12:15

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:06 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:06 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:06 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:06 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:06 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:06 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 19:06 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 19:06 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

## Client Sample ID: S2

Lab Sample ID: 880-12601-3

Date Collected: 03/18/22 12:15

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 03/21/22 11:56 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 00:00 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 00:00 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 00:00 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 00:00 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 97        |           | 70 - 130 |     |       |   | 03/18/22 17:07 | 03/20/22 00:00 | 1       |
| o-Terphenyl                          | 111       |           | 70 - 130 |     |       |   | 03/18/22 17:07 | 03/20/22 00:00 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chloride | 7100   |           | 100 |     | mg/Kg |   |          | 03/19/22 21:44 | 20      |

## Client Sample ID: S2

Lab Sample ID: 880-12601-4

Date Collected: 03/18/22 12:20

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:26 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:26 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:26 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:26 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:26 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:26 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 |     |       |   | 03/19/22 09:25 | 03/19/22 19:26 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109       |           | 70 - 130 |     |       |   | 03/19/22 09:25 | 03/19/22 19:26 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 03/21/22 13:26 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/21/22 11:56 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 00:20 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 00:20 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 00:20 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

Client Sample ID: S2

Lab Sample ID: 880-12601-4

Date Collected: 03/18/22 12:20

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte        | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Total TPH      | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 17:07 | 03/20/22 00:20 | 1       |
| Surrogate      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane | 108       |           | 70 - 130 |     |       |   | 03/18/22 17:07 | 03/20/22 00:20 | 1       |
| o-Terphenyl    | 130       |           | 70 - 130 |     |       |   | 03/18/22 17:07 | 03/20/22 00:20 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1100   |           | 25.0 |     | mg/Kg |   |          | 03/19/22 21:54 | 5       |

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## Surrogate Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-12315-A-11-F MS               | Matrix Spike           | 104                                            | 111               |
| 880-12315-A-11-G MSD              | Matrix Spike Duplicate | 105                                            | 111               |
| 880-12601-1                       | S1                     | 103                                            | 107               |
| 880-12601-2                       | S1                     | 106                                            | 108               |
| 880-12601-3                       | S2                     | 103                                            | 107               |
| 880-12601-4                       | S2                     | 106                                            | 109               |
| LCS 880-21935/1-A                 | Lab Control Sample     | 103                                            | 111               |
| LCSD 880-21935/2-A                | Lab Control Sample Dup | 104                                            | 112               |
| MB 880-21935/5-A                  | Method Blank           | 104                                            | 105               |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |                                                |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |                                                |                   |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-12601-1             | S1                     | 100                                            | 116               |
| 880-12601-2             | S1                     | 99                                             | 119               |
| 880-12601-3             | S2                     | 97                                             | 111               |
| 880-12601-4             | S2                     | 108                                            | 130               |
| 880-12602-A-1-C MS      | Matrix Spike           | 94                                             | 97                |
| 880-12602-A-1-D MSD     | Matrix Spike Duplicate | 92                                             | 92                |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO2<br>(70-130)                               | OTPH2<br>(70-130) |
| LCS 880-21925/2-A       | Lab Control Sample     | 103                                            | 120               |
| LCSD 880-21925/3-A      | Lab Control Sample Dup | 108                                            | 126               |
| MB 880-21925/1-A        | Method Blank           | 101                                            | 126               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21935/5-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104          |              | 70 - 130 | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105          |              | 70 - 130 | 03/19/22 09:25 | 03/19/22 12:36 | 1       |

Lab Sample ID: LCS 880-21935/1-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.1011     |               | mg/Kg |   | 101  | 70 - 130     |
| Toluene             | 0.100       | 0.1005     |               | mg/Kg |   | 100  | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1025     |               | mg/Kg |   | 102  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2105     |               | mg/Kg |   | 105  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1021     |               | mg/Kg |   | 102  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 103           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21935/2-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene             | 0.100       | 0.1095      |                | mg/Kg |   | 109  | 70 - 130     | 8   | 35    |
| Toluene             | 0.100       | 0.1081      |                | mg/Kg |   | 108  | 70 - 130     | 7   | 35    |
| Ethylbenzene        | 0.100       | 0.1096      |                | mg/Kg |   | 110  | 70 - 130     | 7   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2259      |                | mg/Kg |   | 113  | 70 - 130     | 7   | 35    |
| o-Xylene            | 0.100       | 0.1096      |                | mg/Kg |   | 110  | 70 - 130     | 7   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 104            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 112            |                | 70 - 130 |

Lab Sample ID: 880-12315-A-11-F MS

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21935

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <0.00202      | U                | 0.100       | 0.08164   |              | mg/Kg |   | 81   | 70 - 130     |
| Toluene | <0.00202      | U                | 0.100       | 0.07915   |              | mg/Kg |   | 79   | 70 - 130     |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-12315-A-11-F MS

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Ethylbenzene        | <0.00202      | U                | 0.100       | 0.07729   |              | mg/Kg |   | 77   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00404      | U                | 0.200       | 0.1611    |              | mg/Kg |   | 80   | 70 - 130     |
| o-Xylene            | <0.00202      | U                | 0.100       | 0.07937   |              | mg/Kg |   | 79   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 104          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111          |              | 70 - 130 |

Lab Sample ID: 880-12315-A-11-G MSD

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00202      | U                | 0.100       | 0.08491    |               | mg/Kg |   | 85   | 70 - 130     | 4   | 35        |
| Toluene             | <0.00202      | U                | 0.100       | 0.08152    |               | mg/Kg |   | 81   | 70 - 130     | 3   | 35        |
| Ethylbenzene        | <0.00202      | U                | 0.100       | 0.08010    |               | mg/Kg |   | 80   | 70 - 130     | 4   | 35        |
| m-Xylene & p-Xylene | <0.00404      | U                | 0.200       | 0.1651     |               | mg/Kg |   | 82   | 70 - 130     | 2   | 35        |
| o-Xylene            | <0.00202      | U                | 0.100       | 0.08108    |               | mg/Kg |   | 81   | 70 - 130     | 2   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 105           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111           |               | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-21925/1-A

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 20:54 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 20:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 20:54 | 1       |
| Total TPH                            | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 20:54 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 101          |              | 70 - 130 | 03/18/22 17:07 | 03/19/22 20:54 | 1       |
| o-Terphenyl    | 126          |              | 70 - 130 | 03/18/22 17:07 | 03/19/22 20:54 | 1       |

Lab Sample ID: LCS 880-21925/2-A

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 883.2      |               | mg/Kg |   | 88   | 70 - 130     |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-21925/2-A

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Diesel Range Organics (Over C10-C28) | 1000        | 946.5      |               | mg/Kg |   | 95   | 70 - 130     |

|                | LCS %Recovery | LCS Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| Surrogate      |               |               |          |
| 1-Chlorooctane | 103           |               | 70 - 130 |
| o-Terphenyl    | 120           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21925/3-A

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1008        |                | mg/Kg |   | 101  | 70 - 130     | 13  | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 1156        |                | mg/Kg |   | 116  | 70 - 130     | 20  | 20        |

|                | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------|----------------|----------------|----------|
| Surrogate      |                |                |          |
| 1-Chlorooctane | 108            |                | 70 - 130 |
| o-Terphenyl    | 126            |                | 70 - 130 |

Lab Sample ID: 880-12602-A-1-C MS

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 896.0     |              | mg/Kg |   | 88   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 998         | 904.8     |              | mg/Kg |   | 87   | 70 - 130     |

|                | MS %Recovery | MS Qualifier | Limits   |
|----------------|--------------|--------------|----------|
| Surrogate      |              |              |          |
| 1-Chlorooctane | 94           |              | 70 - 130 |
| o-Terphenyl    | 97           |              | 70 - 130 |

Lab Sample ID: 880-12602-A-1-D MSD

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 999         | 909.4      |               | mg/Kg |   | 89   | 70 - 130     | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 999         | 870.4      |               | mg/Kg |   | 84   | 70 - 130     | 4   | 20        |

|                | MSD %Recovery | MSD Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| Surrogate      |               |               |          |
| 1-Chlorooctane | 92            |               | 70 - 130 |
| o-Terphenyl    | 92            |               | 70 - 130 |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21737/1-A

Matrix: Solid

Analysis Batch: 21950

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 |     | mg/Kg |   |          | 03/19/22 17:15 | 1       |

Lab Sample ID: LCS 880-21737/2-A

Matrix: Solid

Analysis Batch: 21950

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|-----------------|
| Chloride | 250            | 262.8         |                  | mg/Kg |   | 105  | 90 - 110        |

Lab Sample ID: LCSD 880-21737/3-A

Matrix: Solid

Analysis Batch: 21950

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 250            | 263.1          |                   | mg/Kg |   | 105  | 90 - 110        | 0   | 20           |

Lab Sample ID: 880-12452-A-23-C MS

Matrix: Solid

Analysis Batch: 21950

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Chloride | 167              |                     | 250            | 431.9        |                 | mg/Kg |   | 106  | 90 - 110        |

Lab Sample ID: 880-12452-A-23-D MSD

Matrix: Solid

Analysis Batch: 21950

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 167              |                     | 250            | 431.7         |                  | mg/Kg |   | 106  | 90 - 110        | 0   | 20           |

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## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

## GC VOA

## Prep Batch: 21935

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-12601-1          | S1                     | Total/NA  | Solid  | 5035   |            |
| 880-12601-2          | S1                     | Total/NA  | Solid  | 5035   |            |
| 880-12601-3          | S2                     | Total/NA  | Solid  | 5035   |            |
| 880-12601-4          | S2                     | Total/NA  | Solid  | 5035   |            |
| MB 880-21935/5-A     | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-21935/1-A    | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-21935/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-12315-A-11-F MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-12315-A-11-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21936

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-12601-1          | S1                     | Total/NA  | Solid  | 8021B  | 21935      |
| 880-12601-2          | S1                     | Total/NA  | Solid  | 8021B  | 21935      |
| 880-12601-3          | S2                     | Total/NA  | Solid  | 8021B  | 21935      |
| 880-12601-4          | S2                     | Total/NA  | Solid  | 8021B  | 21935      |
| MB 880-21935/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 21935      |
| LCS 880-21935/1-A    | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 21935      |
| LCSD 880-21935/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 21935      |
| 880-12315-A-11-F MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 21935      |
| 880-12315-A-11-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 21935      |

## Analysis Batch: 22076

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-12601-1   | S1               | Total/NA  | Solid  | Total BTEX |            |
| 880-12601-2   | S1               | Total/NA  | Solid  | Total BTEX |            |
| 880-12601-3   | S2               | Total/NA  | Solid  | Total BTEX |            |
| 880-12601-4   | S2               | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 21925

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 880-12601-1         | S1                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12601-2         | S1                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12601-3         | S2                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12601-4         | S2                     | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-21925/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-21925/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-21925/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12602-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12602-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21937

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 880-12601-1       | S1                 | Total/NA  | Solid  | 8015B NM | 21925      |
| 880-12601-2       | S1                 | Total/NA  | Solid  | 8015B NM | 21925      |
| 880-12601-3       | S2                 | Total/NA  | Solid  | 8015B NM | 21925      |
| 880-12601-4       | S2                 | Total/NA  | Solid  | 8015B NM | 21925      |
| MB 880-21925/1-A  | Method Blank       | Total/NA  | Solid  | 8015B NM | 21925      |
| LCS 880-21925/2-A | Lab Control Sample | Total/NA  | Solid  | 8015B NM | 21925      |

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## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

## GC Semi VOA (Continued)

## Analysis Batch: 21937 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| LCSD 880-21925/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 21925      |
| 880-12602-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 21925      |
| 880-12602-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 21925      |

## Analysis Batch: 22045

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-12601-1   | S1               | Total/NA  | Solid  | 8015 NM |            |
| 880-12601-2   | S1               | Total/NA  | Solid  | 8015 NM |            |
| 880-12601-3   | S2               | Total/NA  | Solid  | 8015 NM |            |
| 880-12601-4   | S2               | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 21737

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 880-12601-1          | S1                     | Soluble   | Solid  | DI Leach |            |
| 880-12601-2          | S1                     | Soluble   | Solid  | DI Leach |            |
| 880-12601-3          | S2                     | Soluble   | Solid  | DI Leach |            |
| 880-12601-4          | S2                     | Soluble   | Solid  | DI Leach |            |
| MB 880-21737/1-A     | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-21737/2-A    | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-21737/3-A   | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-12452-A-23-C MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-12452-A-23-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 21950

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-12601-1          | S1                     | Soluble   | Solid  | 300.0  | 21737      |
| 880-12601-2          | S1                     | Soluble   | Solid  | 300.0  | 21737      |
| 880-12601-3          | S2                     | Soluble   | Solid  | 300.0  | 21737      |
| 880-12601-4          | S2                     | Soluble   | Solid  | 300.0  | 21737      |
| MB 880-21737/1-A     | Method Blank           | Soluble   | Solid  | 300.0  | 21737      |
| LCS 880-21737/2-A    | Lab Control Sample     | Soluble   | Solid  | 300.0  | 21737      |
| LCSD 880-21737/3-A   | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 21737      |
| 880-12452-A-23-C MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 21737      |
| 880-12452-A-23-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 21737      |

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## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

Client Sample ID: S1

Lab Sample ID: 880-12601-1

Date Collected: 03/18/22 12:00

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 21935        | 03/19/22 09:25       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21936        | 03/19/22 18:25       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22076        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22045        | 03/21/22 11:56       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 21925        | 03/18/22 17:07       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21937        | 03/19/22 23:18       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 21737        | 03/18/22 16:50       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 100        |                |              | 21950        | 03/19/22 21:23       | CH      | XEN MID |

Client Sample ID: S1

Lab Sample ID: 880-12601-2

Date Collected: 03/18/22 12:05

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 21935        | 03/19/22 09:25       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21936        | 03/19/22 18:45       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22076        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22045        | 03/21/22 11:56       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 21925        | 03/18/22 17:07       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21937        | 03/19/22 23:39       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 21737        | 03/18/22 16:50       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 21950        | 03/19/22 21:34       | CH      | XEN MID |

Client Sample ID: S2

Lab Sample ID: 880-12601-3

Date Collected: 03/18/22 12:15

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 21935        | 03/19/22 09:25       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21936        | 03/19/22 19:06       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22076        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22045        | 03/21/22 11:56       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 21925        | 03/18/22 17:07       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21937        | 03/20/22 00:00       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 21737        | 03/18/22 16:50       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20         |                |              | 21950        | 03/19/22 21:44       | CH      | XEN MID |

Client Sample ID: S2

Lab Sample ID: 880-12601-4

Date Collected: 03/18/22 12:20

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 21935        | 03/19/22 09:25       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21936        | 03/19/22 19:26       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22076        | 03/21/22 13:26       | AJ      | XEN MID |

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

Client Sample ID: S2  
Date Collected: 03/18/22 12:20  
Date Received: 03/18/22 15:12

Lab Sample ID: 880-12601-4  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22045        | 03/21/22 11:56       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 21925        | 03/18/22 17:07       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21937        | 03/20/22 00:20       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 21737        | 03/18/22 16:50       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 21950        | 03/19/22 21:54       | CH      | XEN MID |

Laboratory References:  
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-21-22      | 06-30-22        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte    |
|-----------------|-------------|--------|------------|
| 8015 NM         |             | Solid  | Total TPH  |
| 8015B NM        | 8015NM Prep | Solid  | Total TPH  |
| Total BTEX      |             | Solid  | Total BTEX |

## Method Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

## Sample Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12601-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-12601-1   | S1               | Solid  | 03/18/22 12:00 | 03/18/22 15:12 | 0-6"  |
| 880-12601-2   | S1               | Solid  | 03/18/22 12:05 | 03/18/22 15:12 | 1'    |
| 880-12601-3   | S2               | Solid  | 03/18/22 12:15 | 03/18/22 15:12 | 0-6"  |
| 880-12601-4   | S2               | Solid  | 03/18/22 12:20 | 03/18/22 15:12 | 1'    |



Enviro  
ment  
Testing  
Xenoco

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 302-0300  
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334  
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296  
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199

Work Order No: 12401

www.xenoco.com Page 1 of 1

|                 |                        |                        |                                     |
|-----------------|------------------------|------------------------|-------------------------------------|
| Project Manager | Grant Huckabay         | Bill to (if different) |                                     |
| Company Name    | Fasken Oil and Ranch   | Company Name           |                                     |
| Address         | 6101 Holiday Hill Road | Address                |                                     |
| City, State ZIP | Midland TX 79707       | City, State ZIP        |                                     |
| Phone           | 432-687-1777           | Email                  | granth@forl.com / addisong@forl.com |

|                     |                                                                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order Comments |                                                                                                                                                                       |
| Program             | UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>    |
| State of Project    |                                                                                                                                                                       |
| Reporting Level     | Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Deliverables        | EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other <input type="checkbox"/>                                                                            |

|                         |                                                                                |                                                                     |                                                                           |                                                                     |  |                  |  |                                                                 |
|-------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|--|------------------|--|-----------------------------------------------------------------|
| Project Name            | CABOT Q SWD                                                                    | Turn Around                                                         | <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush | Pres. Code                                                          |  | ANALYSIS REQUEST |  | Preservative Codes                                              |
| Project Number          |                                                                                | Due Date                                                            | 3/23/22                                                                   |                                                                     |  |                  |  | None NO DI Water H <sub>2</sub> O                               |
| Project Location        | Addison Guetker                                                                | TAT starts the day received by the lab if received by 4:30pm        |                                                                           |                                                                     |  |                  |  | Cool Cool MeOH Me                                               |
| Sampler's Name          |                                                                                |                                                                     |                                                                           |                                                                     |  |                  |  | HCL HC HNO <sub>3</sub> HN                                      |
| PO #                    |                                                                                |                                                                     |                                                                           |                                                                     |  |                  |  | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> NaOH Na           |
| SAMPLE RECEIPT          | Temp Blank Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice                                                                   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  |                  |  | H <sub>3</sub> PO <sub>4</sub> HP                               |
| Samples Received Intact | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>            | Thermometer ID                                                      |                                                                           |                                                                     |  |                  |  | NaHSO <sub>4</sub> NABIS                                        |
| Cooler Custody Seals    | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>            | Correction Factor                                                   |                                                                           |                                                                     |  |                  |  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> |
| Sample Custody Seals    | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>            | Temperature Reading                                                 |                                                                           |                                                                     |  |                  |  | Zn Acetate+NaOH Zn                                              |
| Total Containers        |                                                                                | Corrected Temperature                                               |                                                                           |                                                                     |  |                  |  | NaOH+Ascorbic Acid SAPC                                         |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab Comp | # of Cont | CL | EC | TPH 8015M | BTEX 8021B | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|----|----|-----------|------------|-----------------|
| S1                    | S      | 3/18/22      | 12:00        | 0-6"  | G         | 1         | X  |    | X         | X          |                 |
| S1                    | S      | 3/18/22      | 12:05        | 1'    | G         | 1         |    |    |           |            |                 |
| S2                    | S      |              | 12:15        | 0-6"  |           |           |    |    |           |            |                 |
| S2                    | S      |              | 12:20        | 1'    |           |           |    |    |           |            |                 |
| S                     | S      |              |              |       |           |           |    |    |           |            |                 |
| S                     | S      |              |              |       |           |           |    |    |           |            |                 |
| S                     | S      |              |              |       |           |           |    |    |           |            |                 |
| S                     | S      |              |              |       |           |           |    |    |           |            |                 |
| S                     | S      |              |              |       |           |           |    |    |           |            |                 |
| S                     | S      |              |              |       |           |           |    |    |           |            |                 |
| S                     | S      |              |              |       |           |           |    |    |           |            |                 |



880-12601 Chain of Custody

|                                              |               |                  |          |                                                                                               |
|----------------------------------------------|---------------|------------------|----------|-----------------------------------------------------------------------------------------------|
| Total 200.7 / 6010                           | 200.8 / 6020: | 8RCRA 13PPM      | Texas 11 | Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn |
| Circle Method(s) and Metal(s) to be analyzed |               | TCLP / SPLP 6010 | 8RCRA    | Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471                  |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenoco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenoco. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.

|                             |                         |           |                             |                         |           |
|-----------------------------|-------------------------|-----------|-----------------------------|-------------------------|-----------|
| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
| Altan                       | Altan                   | 3/18/22   |                             |                         |           |
|                             |                         | 15:12     |                             |                         |           |
|                             |                         |           |                             |                         |           |
|                             |                         |           |                             |                         |           |
|                             |                         |           |                             |                         |           |



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-12602-1  
Client Project/Site: Cabot Q SWD

**For:**

Fasken Oil and Ranch  
6101 Holiday Hill Road  
Midland, Texas 79707

Attn: Grant Huckabay

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
3/21/2022 1:38:32 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Laboratory Job ID: 880-12602-1

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## Definitions/Glossary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| SQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

Case Narrative

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

Job ID: 880-12602-1

Laboratory: Eurofins Midland

| Narrative |                              |
|-----------|------------------------------|
|           | Job Narrative<br>880-12602-1 |

Receipt

The samples were received on 3/18/2022 3:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

Client Sample ID: BG1

Lab Sample ID: 880-12602-1

Date Collected: 03/18/22 13:00

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:47 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:47 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:47 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:47 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:47 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 19:47 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 19:47 | 1       |
| 1,4-Difluorobenzene (Surr)  | 110       |           | 70 - 130 | 03/19/22 09:25 | 03/19/22 19:47 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/21/22 13:26 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 |     | mg/Kg |   |          | 03/21/22 11:56 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 21:56 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 21:56 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 21:56 | 1       |
| Total TPH                            | <49.8  | U         | 49.8 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 21:56 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 105       |           | 70 - 130 | 03/18/22 17:07 | 03/19/22 21:56 | 1       |
| o-Terphenyl    | 125       |           | 70 - 130 | 03/18/22 17:07 | 03/19/22 21:56 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 25.4   |           | 4.95 |     | mg/Kg |   |          | 03/19/22 22:05 | 1       |

Client Sample ID: BG2

Lab Sample ID: 880-12602-2

Date Collected: 03/18/22 13:05

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 20:07 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 20:07 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 20:07 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 20:07 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 20:07 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 20:07 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

Client Sample ID: BG2

Lab Sample ID: 880-12602-2

Date Collected: 03/18/22 13:05

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

| Surrogate                                                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr)                                 | 104       |           | 70 - 130 |     |       |   | 03/19/22 09:25 | 03/19/22 20:07 | 1       |
| 1,4-Difluorobenzene (Surr)                                  | 97        |           | 70 - 130 |     |       |   | 03/19/22 09:25 | 03/19/22 20:07 | 1       |
| <b>Method: Total BTEX - Total BTEX Calculation</b>          |           |           |          |     |       |   |                |                |         |
| Analyte                                                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total BTEX                                                  | <0.00403  | U         | 0.00403  |     | mg/Kg |   |                | 03/21/22 13:26 | 1       |
| <b>Method: 8015 NM - Diesel Range Organics (DRO) (GC)</b>   |           |           |          |     |       |   |                |                |         |
| Analyte                                                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                                                   | 51.1      |           | 49.9     |     | mg/Kg |   |                | 03/21/22 11:56 | 1       |
| <b>Method: 8015B NM - Diesel Range Organics (DRO) (GC)</b>  |           |           |          |     |       |   |                |                |         |
| Analyte                                                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10                        | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 22:58 | 1       |
| Diesel Range Organics (Over C10-C28)                        | 51.1      |           | 49.9     |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 22:58 | 1       |
| Oil Range Organics (Over C28-C36)                           | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 22:58 | 1       |
| Total TPH                                                   | 51.1      |           | 49.9     |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 22:58 | 1       |
| Surrogate                                                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                                              | 103       |           | 70 - 130 |     |       |   | 03/18/22 17:07 | 03/19/22 22:58 | 1       |
| o-Terphenyl                                                 | 123       |           | 70 - 130 |     |       |   | 03/18/22 17:07 | 03/19/22 22:58 | 1       |
| <b>Method: 300.0 - Anions, Ion Chromatography - Soluble</b> |           |           |          |     |       |   |                |                |         |
| Analyte                                                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                                                    | 8.28      |           | 4.99     |     | mg/Kg |   |                | 03/19/22 22:15 | 1       |

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## Surrogate Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-12315-A-11-F MS               | Matrix Spike           | 104                                            | 111               |
| 880-12315-A-11-G MSD              | Matrix Spike Duplicate | 105                                            | 111               |
| 880-12602-1                       | BG1                    | 105                                            | 110               |
| 880-12602-2                       | BG2                    | 104                                            | 97                |
| LCS 880-21935/1-A                 | Lab Control Sample     | 103                                            | 111               |
| LCSD 880-21935/2-A                | Lab Control Sample Dup | 104                                            | 112               |
| MB 880-21935/5-A                  | Method Blank           | 104                                            | 105               |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |                                                |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |                                                |                   |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                  | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-12602-1             | BG1              | 105                                            | 125               |
| 880-12602-1 MS          | BG1              | 94                                             | 97                |
| 880-12602-1 MSD         | BG1              | 92                                             | 92                |
| 880-12602-2             | BG2              | 103                                            | 123               |
| <b>Surrogate Legend</b> |                  |                                                |                   |
| 1CO = 1-Chlorooctane    |                  |                                                |                   |
| OTPH = o-Terphenyl      |                  |                                                |                   |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO2<br>(70-130)                               | OTPH2<br>(70-130) |
| LCS 880-21925/2-A       | Lab Control Sample     | 103                                            | 120               |
| LCSD 880-21925/3-A      | Lab Control Sample Dup | 108                                            | 126               |
| MB 880-21925/1-A        | Method Blank           | 101                                            | 126               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21935/5-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/19/22 09:25 | 03/19/22 12:36 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104          |              | 70 - 130 | 03/19/22 09:25 | 03/19/22 12:36 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105          |              | 70 - 130 | 03/19/22 09:25 | 03/19/22 12:36 | 1       |

Lab Sample ID: LCS 880-21935/1-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.1011     |               | mg/Kg |   | 101  | 70 - 130     |
| Toluene             | 0.100       | 0.1005     |               | mg/Kg |   | 100  | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1025     |               | mg/Kg |   | 102  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2105     |               | mg/Kg |   | 105  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1021     |               | mg/Kg |   | 102  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 103           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21935/2-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene             | 0.100       | 0.1095      |                | mg/Kg |   | 109  | 70 - 130     | 8   | 35    |
| Toluene             | 0.100       | 0.1081      |                | mg/Kg |   | 108  | 70 - 130     | 7   | 35    |
| Ethylbenzene        | 0.100       | 0.1096      |                | mg/Kg |   | 110  | 70 - 130     | 7   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2259      |                | mg/Kg |   | 113  | 70 - 130     | 7   | 35    |
| o-Xylene            | 0.100       | 0.1096      |                | mg/Kg |   | 110  | 70 - 130     | 7   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 104            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 112            |                | 70 - 130 |

Lab Sample ID: 880-12315-A-11-F MS

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21935

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <0.00202      | U                | 0.100       | 0.08164   |              | mg/Kg |   | 81   | 70 - 130     |
| Toluene | <0.00202      | U                | 0.100       | 0.07915   |              | mg/Kg |   | 79   | 70 - 130     |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-12315-A-11-F MS

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Ethylbenzene        | <0.00202      | U                | 0.100       | 0.07729   |              | mg/Kg |   | 77   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00404      | U                | 0.200       | 0.1611    |              | mg/Kg |   | 80   | 70 - 130     |
| o-Xylene            | <0.00202      | U                | 0.100       | 0.07937   |              | mg/Kg |   | 79   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 104          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111          |              | 70 - 130 |

Lab Sample ID: 880-12315-A-11-G MSD

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21935

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00202      | U                | 0.100       | 0.08491    |               | mg/Kg |   | 85   | 70 - 130     | 4   | 35        |
| Toluene             | <0.00202      | U                | 0.100       | 0.08152    |               | mg/Kg |   | 81   | 70 - 130     | 3   | 35        |
| Ethylbenzene        | <0.00202      | U                | 0.100       | 0.08010    |               | mg/Kg |   | 80   | 70 - 130     | 4   | 35        |
| m-Xylene & p-Xylene | <0.00404      | U                | 0.200       | 0.1651     |               | mg/Kg |   | 82   | 70 - 130     | 2   | 35        |
| o-Xylene            | <0.00202      | U                | 0.100       | 0.08108    |               | mg/Kg |   | 81   | 70 - 130     | 2   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 105           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111           |               | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-21925/1-A

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 20:54 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 20:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 20:54 | 1       |
| Total TPH                            | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/18/22 17:07 | 03/19/22 20:54 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 101          |              | 70 - 130 | 03/18/22 17:07 | 03/19/22 20:54 | 1       |
| o-Terphenyl    | 126          |              | 70 - 130 | 03/18/22 17:07 | 03/19/22 20:54 | 1       |

Lab Sample ID: LCS 880-21925/2-A

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 883.2      |               | mg/Kg |   | 88   | 70 - 130     |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-21925/2-A

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Diesel Range Organics (Over C10-C28) | 1000        | 946.5      |               | mg/Kg |   | 95   | 70 - 130     |

| Surrogate      | LCS %Recovery | LCS Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| 1-Chlorooctane | 103           |               | 70 - 130 |
| o-Terphenyl    | 120           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21925/3-A

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1008        |                | mg/Kg |   | 101  | 70 - 130     | 13  | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 1156        |                | mg/Kg |   | 116  | 70 - 130     | 20  | 20        |

| Surrogate      | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------|----------------|----------------|----------|
| 1-Chlorooctane | 108            |                | 70 - 130 |
| o-Terphenyl    | 126            |                | 70 - 130 |

Lab Sample ID: 880-12602-1 MS

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: BG1

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 896.0     |              | mg/Kg |   | 88   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 998         | 904.8     |              | mg/Kg |   | 87   | 70 - 130     |

| Surrogate      | MS %Recovery | MS Qualifier | Limits   |
|----------------|--------------|--------------|----------|
| 1-Chlorooctane | 94           |              | 70 - 130 |
| o-Terphenyl    | 97           |              | 70 - 130 |

Lab Sample ID: 880-12602-1 MSD

Matrix: Solid

Analysis Batch: 21937

Client Sample ID: BG1

Prep Type: Total/NA

Prep Batch: 21925

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 999         | 909.4      |               | mg/Kg |   | 89   | 70 - 130     | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 999         | 870.4      |               | mg/Kg |   | 84   | 70 - 130     | 4   | 20        |

| Surrogate      | MSD %Recovery | MSD Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| 1-Chlorooctane | 92            |               | 70 - 130 |
| o-Terphenyl    | 92            |               | 70 - 130 |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21737/1-A

Matrix: Solid

Analysis Batch: 21950

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 |     | mg/Kg |   |          | 03/19/22 17:15 | 1       |

Lab Sample ID: LCS 880-21737/2-A

Matrix: Solid

Analysis Batch: 21950

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|-----------------|
| Chloride | 250            | 262.8         |                  | mg/Kg |   | 105  | 90 - 110        |

Lab Sample ID: LCSD 880-21737/3-A

Matrix: Solid

Analysis Batch: 21950

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 250            | 263.1          |                   | mg/Kg |   | 105  | 90 - 110        | 0   | 20           |

Lab Sample ID: 880-12452-A-23-C MS

Matrix: Solid

Analysis Batch: 21950

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Chloride | 167              |                     | 250            | 431.9        |                 | mg/Kg |   | 106  | 90 - 110        |

Lab Sample ID: 880-12452-A-23-D MSD

Matrix: Solid

Analysis Batch: 21950

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 167              |                     | 250            | 431.7         |                  | mg/Kg |   | 106  | 90 - 110        | 0   | 20           |

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## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

## GC VOA

## Prep Batch: 21935

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-12602-1          | BG1                    | Total/NA  | Solid  | 5035   |            |
| 880-12602-2          | BG2                    | Total/NA  | Solid  | 5035   |            |
| MB 880-21935/5-A     | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-21935/1-A    | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-21935/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-12315-A-11-F MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-12315-A-11-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21936

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-12602-1          | BG1                    | Total/NA  | Solid  | 8021B  | 21935      |
| 880-12602-2          | BG2                    | Total/NA  | Solid  | 8021B  | 21935      |
| MB 880-21935/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 21935      |
| LCS 880-21935/1-A    | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 21935      |
| LCSD 880-21935/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 21935      |
| 880-12315-A-11-F MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 21935      |
| 880-12315-A-11-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 21935      |

## Analysis Batch: 22077

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-12602-1   | BG1              | Total/NA  | Solid  | Total BTEX |            |
| 880-12602-2   | BG2              | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 21925

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-12602-1        | BG1                    | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12602-2        | BG2                    | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-21925/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-21925/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-21925/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12602-1 MS     | BG1                    | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12602-1 MSD    | BG1                    | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21937

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-12602-1        | BG1                    | Total/NA  | Solid  | 8015B NM | 21925      |
| 880-12602-2        | BG2                    | Total/NA  | Solid  | 8015B NM | 21925      |
| MB 880-21925/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 21925      |
| LCS 880-21925/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 21925      |
| LCSD 880-21925/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 21925      |
| 880-12602-1 MS     | BG1                    | Total/NA  | Solid  | 8015B NM | 21925      |
| 880-12602-1 MSD    | BG1                    | Total/NA  | Solid  | 8015B NM | 21925      |

## Analysis Batch: 22044

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-12602-1   | BG1              | Total/NA  | Solid  | 8015 NM |            |
| 880-12602-2   | BG2              | Total/NA  | Solid  | 8015 NM |            |

Eurofins Midland

## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

## HPLC/IC

## Leach Batch: 21737

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 880-12602-1          | BG1                    | Soluble   | Solid  | DI Leach |            |
| 880-12602-2          | BG2                    | Soluble   | Solid  | DI Leach |            |
| MB 880-21737/1-A     | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-21737/2-A    | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-21737/3-A   | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-12452-A-23-C MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-12452-A-23-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 21950

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-12602-1          | BG1                    | Soluble   | Solid  | 300.0  | 21737      |
| 880-12602-2          | BG2                    | Soluble   | Solid  | 300.0  | 21737      |
| MB 880-21737/1-A     | Method Blank           | Soluble   | Solid  | 300.0  | 21737      |
| LCS 880-21737/2-A    | Lab Control Sample     | Soluble   | Solid  | 300.0  | 21737      |
| LCSD 880-21737/3-A   | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 21737      |
| 880-12452-A-23-C MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 21737      |
| 880-12452-A-23-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 21737      |

## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

Client Sample ID: BG1

Lab Sample ID: 880-12602-1

Date Collected: 03/18/22 13:00

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 21935        | 03/19/22 09:25       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21936        | 03/19/22 19:47       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22077        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22044        | 03/21/22 11:56       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 21925        | 03/18/22 17:07       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21937        | 03/19/22 21:56       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 21737        | 03/18/22 16:50       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 21950        | 03/19/22 22:05       | CH      | XEN MID |

Client Sample ID: BG2

Lab Sample ID: 880-12602-2

Date Collected: 03/18/22 13:05

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 21935        | 03/19/22 09:25       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21936        | 03/19/22 20:07       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22077        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22044        | 03/21/22 11:56       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 21925        | 03/18/22 17:07       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21937        | 03/19/22 22:58       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 21737        | 03/18/22 16:50       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 21950        | 03/19/22 22:15       | CH      | XEN MID |

## Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-21-22      | 06-30-22        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte    |
|-----------------|-------------|--------|------------|
| 8015 NM         |             | Solid  | Total TPH  |
| 8015B NM        | 8015NM Prep | Solid  | Total TPH  |
| Total BTEX      |             | Solid  | Total BTEX |

## Method Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12602-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-12602-1   | BG1              | Solid  | 03/18/22 13:00 | 03/18/22 15:12 | 0-6"  |
| 880-12602-2   | BG2              | Solid  | 03/18/22 13:05 | 03/18/22 15:12 | 0-6"  |

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## Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300  
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334  
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296  
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199

Work Order No: 124002

www.xenco.com Page 1 of 1

|                 |                        |                        |                                     |
|-----------------|------------------------|------------------------|-------------------------------------|
| Project Manager | Grant Huckabay         | Bill to (if different) |                                     |
| Company Name    | Fasken Oil and Ranch   | Company Name           |                                     |
| Address         | 6101 Holiday Hill Road | Address                |                                     |
| City, State ZIP | Midland TX 79707       | City, State ZIP        |                                     |
| Phone           | 432-687-1777           | Email                  | grantn@forl.com / addisong@forl.com |

| Work Order Comments |                                                                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Program             | UST/PST <input type="checkbox"/> PRR <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> |
| State of Project    |                                                                                                                                                                    |
| Reporting Level II  | <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>       |
| Deliverables        | EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other <input type="checkbox"/>                                                                         |

[illegible]

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | CL | EC | TPH 80 | BTEX 8 |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|----|----|--------|--------|
| B61                   | S      | 3/18/2022    | 1:00         | 0'6"  | G         | 1         | X  |    | X      | X      |
| B62                   | S      | 3/19/22      | 1:05         | 0'6"  | G         | 1         | X  |    | X      | X      |
|                       | S      |              |              |       |           |           |    |    |        |        |
|                       | S      |              |              |       |           |           |    |    |        |        |
|                       | S      |              |              |       |           |           |    |    |        |        |
|                       | S      |              |              |       |           |           |    |    |        |        |
|                       | S      |              |              |       |           |           |    |    |        |        |
|                       | S      |              |              |       |           |           |    |    |        |        |
|                       | S      |              |              |       |           |           |    |    |        |        |
|                       | S      |              |              |       |           |           |    |    |        |        |
|                       | S      |              |              |       |           |           |    |    |        |        |



880-12602 Chain of Custody \_\_\_\_\_

| Sample Comments |
|-----------------|
|                 |
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|                 |
|                 |



880-12602 Chain of Custody

| Total 200.7 / 6010 | 200.8 / 6020: |                                                                                                        |
|--------------------|---------------|--------------------------------------------------------------------------------------------------------|
| 8RCRA              | 13PPM         | Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn |
| TC1P / SPLP 6010   | 8RCRA         | Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471                           |

Notice: Signature of this document (indemnification of samples constitutes a valid purchase order from client company to Eurofins Xeno) its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$65.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xeno. A minimum charge of \$65.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xeno.

| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|-----------------------------|-------------------------|-----------|-----------------------------|-------------------------|-----------|
| 1 <i>Atkinson</i>           | <i>Atkinson</i>         | 8/18/22   | 2                           |                         |           |
| 3                           |                         | 18:12     | 4                           |                         |           |
| 5                           |                         |           | 6                           |                         |           |



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-12070-1  
Laboratory Sample Delivery Group: Andrews  
Client Project/Site: Cabot Q SWD

For:  
Fasken Oil and Ranch  
6101 Holiday Hill Road  
Midland, Texas 79707

Attn: Grant Huckabay

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
3/15/2022 3:03:02 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

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results through  
**TotalAccess**

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Laboratory Job ID: 880-12070-1  
SDG: Andrews

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## Definitions/Glossary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| SQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

Case Narrative

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

Job ID: 880-12070-1

Laboratory: Eurofins Midland

| Narrative | Job Narrative<br>880-12070-1 |
|-----------|------------------------------|
|-----------|------------------------------|

**Receipt**  
The samples were received on 3/4/2022 4:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

**GC VOA**  
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**  
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**  
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

Client Sample ID: T1

Lab Sample ID: 880-12070-1

Date Collected: 03/03/22 13:00

Matrix: Solid

Date Received: 03/04/22 16:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 17:38 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 17:38 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 17:38 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 17:38 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 17:38 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 17:38 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 | 03/09/22 08:00 | 03/09/22 17:38 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 | 03/09/22 08:00 | 03/09/22 17:38 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/10/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 1180   |           | 49.8 |     | mg/Kg |   |          | 03/09/22 19:12 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 06:07 | 1       |
| Diesel Range Organics (Over C10-C28) | 1180   |           | 49.8 |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 06:07 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 06:07 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 120       |           | 70 - 130 | 03/08/22 08:46 | 03/09/22 06:07 | 1       |
| o-Terphenyl    | 111       |           | 70 - 130 | 03/08/22 08:46 | 03/09/22 06:07 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 344    |           | 4.97 |     | mg/Kg |   |          | 03/11/22 23:53 | 1       |

Client Sample ID: T1

Lab Sample ID: 880-12070-2

Date Collected: 03/03/22 13:05

Matrix: Solid

Date Received: 03/04/22 16:12

Sample Depth: 2'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 17:58 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 17:58 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 17:58 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 17:58 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 17:58 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 17:58 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 03/09/22 08:00 | 03/09/22 17:58 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

Client Sample ID: T1

Lab Sample ID: 880-12070-2

Date Collected: 03/03/22 13:05

Matrix: Solid

Date Received: 03/04/22 16:12

Sample Depth: 2'

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 87        |           | 70 - 130 | 03/09/22 08:00 | 03/09/22 17:58 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 |     | mg/Kg |   |          | 03/10/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 312    |           | 50.0 |     | mg/Kg |   |          | 03/09/22 19:12 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 06:27 | 1       |
| Diesel Range Organics (Over C10-C28) | 312       |           | 50.0     |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 06:27 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 06:27 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 115       |           | 70 - 130 |     |       |   | 03/08/22 08:46 | 03/09/22 06:27 | 1       |
| o-Terphenyl                          | 114       |           | 70 - 130 |     |       |   | 03/08/22 08:46 | 03/09/22 06:27 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1280   |           | 24.9 |     | mg/Kg |   |          | 03/11/22 23:59 | 5       |

Client Sample ID: T1

Lab Sample ID: 880-12070-3

Date Collected: 03/03/22 13:10

Matrix: Solid

Date Received: 03/04/22 16:12

Sample Depth: 3'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:19 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:19 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:19 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:19 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:19 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:19 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 | 03/09/22 08:00 | 03/09/22 18:19 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 | 03/09/22 08:00 | 03/09/22 18:19 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/10/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 965    |           | 49.9 |     | mg/Kg |   |          | 03/09/22 19:12 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

## Client Sample ID: T1

Lab Sample ID: 880-12070-3

Date Collected: 03/03/22 13:10

Matrix: Solid

Date Received: 03/04/22 16:12

Sample Depth: 3'

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 06:48 | 1       |
| Diesel Range Organics (Over C10-C28) | 965       |           | 49.9     |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 06:48 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 06:48 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 122       |           | 70 - 130 |     |       |   | 03/08/22 08:46 | 03/09/22 06:48 | 1       |
| o-Terphenyl                          | 117       |           | 70 - 130 |     |       |   | 03/08/22 08:46 | 03/09/22 06:48 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 738    |           | 25.1 |     | mg/Kg |   |          | 03/12/22 00:05 | 5       |

## Client Sample ID: T1

Lab Sample ID: 880-12070-4

Date Collected: 03/03/22 13:15

Matrix: Solid

Date Received: 03/04/22 16:12

Sample Depth: 4'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:39 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:39 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:39 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:39 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:39 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:39 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 111       |           | 70 - 130 |     |       |   | 03/09/22 08:00 | 03/09/22 18:39 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 |     |       |   | 03/09/22 08:00 | 03/09/22 18:39 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 |     | mg/Kg |   |          | 03/10/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 371    |           | 49.8 |     | mg/Kg |   |          | 03/09/22 19:12 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8     | U         | 49.8     |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 07:10 | 1       |
| Diesel Range Organics (Over C10-C28) | 371       |           | 49.8     |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 07:10 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 07:10 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 111       |           | 70 - 130 |     |       |   | 03/08/22 08:46 | 03/09/22 07:10 | 1       |
| o-Terphenyl                          | 107       |           | 70 - 130 |     |       |   | 03/08/22 08:46 | 03/09/22 07:10 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

## Client Sample ID: T1

Lab Sample ID: 880-12070-4

Date Collected: 03/03/22 13:15

Matrix: Solid

Date Received: 03/04/22 16:12

Sample Depth: 4'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 631    |           | 4.99 |     | mg/Kg |   |          | 03/12/22 00:11 | 1       |

## Client Sample ID: T1

Lab Sample ID: 880-12070-5

Date Collected: 03/03/22 13:20

Matrix: Solid

Date Received: 03/04/22 16:12

Sample Depth: 4.5'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:59 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:59 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:59 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:59 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:59 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 18:59 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 |     |       |   | 03/09/22 08:00 | 03/09/22 18:59 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 |     |       |   | 03/09/22 08:00 | 03/09/22 18:59 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 |     | mg/Kg |   |          | 03/10/22 16:12 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 378    |           | 50.0 |     | mg/Kg |   |          | 03/09/22 19:12 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 07:32 | 1       |
| Diesel Range Organics (Over C10-C28) | 378       |           | 50.0     |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 07:32 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/08/22 08:46 | 03/09/22 07:32 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 115       |           | 70 - 130 |     |       |   | 03/08/22 08:46 | 03/09/22 07:32 | 1       |
| o-Terphenyl                          | 113       |           | 70 - 130 |     |       |   | 03/08/22 08:46 | 03/09/22 07:32 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 572    |           | 4.97 |     | mg/Kg |   |          | 03/12/22 00:17 | 1       |

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## Surrogate Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-12070-1                       | T1                     | 102                                            | 98                |
| 880-12070-2                       | T1                     | 107                                            | 87                |
| 880-12070-3                       | T1                     | 97                                             | 96                |
| 880-12070-4                       | T1                     | 111                                            | 101               |
| 880-12070-5                       | T1                     | 108                                            | 99                |
| 880-12188-A-1-B MS                | Matrix Spike           | 105                                            | 99                |
| 880-12188-A-1-C MSD               | Matrix Spike Duplicate | 106                                            | 91                |
| LCS 880-20906/1-A                 | Lab Control Sample     | 102                                            | 100               |
| LCSD 880-20906/2-A                | Lab Control Sample Dup | 101                                            | 99                |
| MB 880-20906/5-A                  | Method Blank           | 99                                             | 93                |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |                                                |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |                                                |                   |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-12070-1             | T1                     | 120                                            | 111               |
| 880-12070-2             | T1                     | 115                                            | 114               |
| 880-12070-3             | T1                     | 122                                            | 117               |
| 880-12070-4             | T1                     | 111                                            | 107               |
| 880-12070-5             | T1                     | 115                                            | 113               |
| 880-12075-A-21-B MS     | Matrix Spike           | 106                                            | 86                |
| 880-12075-A-21-C MSD    | Matrix Spike Duplicate | 110                                            | 89                |
| LCS 880-21112/2-A       | Lab Control Sample     | 102                                            | 89                |
| LCSD 880-21112/3-A      | Lab Control Sample Dup | 106                                            | 93                |
| MB 880-21112/1-A        | Method Blank           | 137 S1+                                        | 139 S1+           |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20906/5-A

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20906

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 10:58 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 10:58 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 10:58 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 10:58 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 10:58 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/09/22 08:00 | 03/09/22 10:58 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99           |              | 70 - 130 | 03/09/22 08:00 | 03/09/22 10:58 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93           |              | 70 - 130 | 03/09/22 08:00 | 03/09/22 10:58 | 1       |

Lab Sample ID: LCS 880-20906/1-A

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20906

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.1098     |               | mg/Kg |   | 110  | 70 - 130     |
| Toluene             | 0.100       | 0.1071     |               | mg/Kg |   | 107  | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1056     |               | mg/Kg |   | 106  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2185     |               | mg/Kg |   | 109  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1055     |               | mg/Kg |   | 105  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 102           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 100           |               | 70 - 130 |

Lab Sample ID: LCSD 880-20906/2-A

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20906

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.1039      |                | mg/Kg |   | 104  | 70 - 130     | 6   | 35        |
| Toluene             | 0.100       | 0.1013      |                | mg/Kg |   | 101  | 70 - 130     | 6   | 35        |
| Ethylbenzene        | 0.100       | 0.1002      |                | mg/Kg |   | 100  | 70 - 130     | 5   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2074      |                | mg/Kg |   | 104  | 70 - 130     | 5   | 35        |
| o-Xylene            | 0.100       | 0.1000      |                | mg/Kg |   | 100  | 70 - 130     | 5   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 101            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99             |                | 70 - 130 |

Lab Sample ID: 880-12188-A-1-B MS

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20906

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <0.00200      | U                | 0.101       | 0.08725   |              | mg/Kg |   | 86   | 70 - 130     |
| Toluene | <0.00200      | U                | 0.101       | 0.08724   |              | mg/Kg |   | 86   | 70 - 130     |

Eurofins Midland

## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-12188-A-1-B MS

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20906

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Ethylbenzene        | 0.0299        |                  | 0.101       | 0.1178    |              | mg/Kg |   | 87   | 70 - 130     |
| m-Xylene & p-Xylene | 0.131         |                  | 0.201       | 0.3157    |              | mg/Kg |   | 92   | 70 - 130     |
| o-Xylene            | 0.0665        |                  | 0.101       | 0.1543    |              | mg/Kg |   | 87   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 105          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99           |              | 70 - 130 |

Lab Sample ID: 880-12188-A-1-C MSD

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20906

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00200      | U                | 0.0990      | 0.09837    |               | mg/Kg |   | 99   | 70 - 130     | 12  | 35        |
| Toluene             | <0.00200      | U                | 0.0990      | 0.1008     |               | mg/Kg |   | 101  | 70 - 130     | 14  | 35        |
| Ethylbenzene        | 0.0299        |                  | 0.0990      | 0.1225     |               | mg/Kg |   | 94   | 70 - 130     | 4   | 35        |
| m-Xylene & p-Xylene | 0.131         |                  | 0.198       | 0.3104     |               | mg/Kg |   | 91   | 70 - 130     | 2   | 35        |
| o-Xylene            | 0.0665        |                  | 0.0990      | 0.1540     |               | mg/Kg |   | 88   | 70 - 130     | 0   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 106           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 91            |               | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-21112/1-A

Matrix: Solid

Analysis Batch: 21117

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21112

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/08/22 08:46 | 03/08/22 22:17 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/08/22 08:46 | 03/08/22 22:17 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 03/08/22 08:46 | 03/08/22 22:17 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 137          | S1+          | 70 - 130 | 03/08/22 08:46 | 03/08/22 22:17 | 1       |
| o-Terphenyl    | 139          | S1+          | 70 - 130 | 03/08/22 08:46 | 03/08/22 22:17 | 1       |

Lab Sample ID: LCS 880-21112/2-A

Matrix: Solid

Analysis Batch: 21117

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21112

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 840.9      |               | mg/Kg |   | 84   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | 1000        | 908.4      |               | mg/Kg |   | 91   | 70 - 130     |

Eurofins Midland

## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-21112/2-A  
Matrix: Solid  
Analysis Batch: 21117

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 21112

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 102       |           | 70 - 130 |
| o-Terphenyl    | 89        |           | 70 - 130 |

Lab Sample ID: LCSD 880-21112/3-A  
Matrix: Solid  
Analysis Batch: 21117

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 21112

| Analyte                                 |  |  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|-----------------------------------------|--|--|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Gasoline Range Organics<br>(GRO)-C6-C10 |  |  | 1000           | 824.5          |                   | mg/Kg |   | 82   | 70 - 130        | 2   | 20           |
| Diesel Range Organics (Over<br>C10-C28) |  |  | 1000           | 915.1          |                   | mg/Kg |   | 92   | 70 - 130        | 1   | 20           |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 106       |           | 70 - 130 |
| o-Terphenyl    | 93        |           | 70 - 130 |

Lab Sample ID: 880-12075-A-21-B MS  
Matrix: Solid  
Analysis Batch: 21117

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 21112

| Analyte                                 | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|-----------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|-----|--------------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | <50.0            | U                   | 998            | 1151         |                 | mg/Kg |   | 113  | 70 - 130        |     |              |
| Diesel Range Organics (Over<br>C10-C28) | <50.0            | U                   | 998            | 1134         |                 | mg/Kg |   | 110  | 70 - 130        |     |              |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 106       |           | 70 - 130 |
| o-Terphenyl    | 86        |           | 70 - 130 |

Lab Sample ID: 880-12075-A-21-C MSD  
Matrix: Solid  
Analysis Batch: 21117

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 21112

| Analyte                                 | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|-----------------------------------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | <50.0            | U                   | 998            | 1243          |                  | mg/Kg |   | 122  | 70 - 130        | 8   | 20           |
| Diesel Range Organics (Over<br>C10-C28) | <50.0            | U                   | 998            | 1186          |                  | mg/Kg |   | 115  | 70 - 130        | 4   | 20           |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 110       |           | 70 - 130 |
| o-Terphenyl    | 89        |           | 70 - 130 |

Eurofins Midland

## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21033/1-A

Matrix: Solid

Analysis Batch: 21203

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 |     | mg/Kg |   |          | 03/11/22 21:26 | 1       |

Lab Sample ID: LCS 880-21033/2-A

Matrix: Solid

Analysis Batch: 21203

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|-----------------|
| Chloride | 250            | 265.9         |                  | mg/Kg |   | 106  | 90 - 110        |

Lab Sample ID: LCSD 880-21033/3-A

Matrix: Solid

Analysis Batch: 21203

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 250            | 271.2          |                   | mg/Kg |   | 108  | 90 - 110        | 2   | 20           |

Lab Sample ID: 880-12069-A-8-C MS

Matrix: Solid

Analysis Batch: 21203

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Chloride | 705              |                     | 250            | 932.2        |                 | mg/Kg |   | 91   | 90 - 110        |

Lab Sample ID: 880-12069-A-8-D MSD

Matrix: Solid

Analysis Batch: 21203

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 705              |                     | 250            | 954.0         |                  | mg/Kg |   | 99   | 90 - 110        | 2   | 20           |

Lab Sample ID: 880-12069-A-18-D MS

Matrix: Solid

Analysis Batch: 21203

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Chloride | 1230             |                     | 1250           | 2466         |                 | mg/Kg |   | 99   | 90 - 110        |

Lab Sample ID: 880-12069-A-18-E MSD

Matrix: Solid

Analysis Batch: 21203

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 1230             |                     | 1250           | 2467          |                  | mg/Kg |   | 99   | 90 - 110        | 0   | 20           |

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## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

## GC VOA

## Prep Batch: 20906

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-12070-1         | T1                     | Total/NA  | Solid  | 5035   |            |
| 880-12070-2         | T1                     | Total/NA  | Solid  | 5035   |            |
| 880-12070-3         | T1                     | Total/NA  | Solid  | 5035   |            |
| 880-12070-4         | T1                     | Total/NA  | Solid  | 5035   |            |
| 880-12070-5         | T1                     | Total/NA  | Solid  | 5035   |            |
| MB 880-20906/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-20906/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-20906/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-12188-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-12188-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21187

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-12070-1         | T1                     | Total/NA  | Solid  | 8021B  | 20906      |
| 880-12070-2         | T1                     | Total/NA  | Solid  | 8021B  | 20906      |
| 880-12070-3         | T1                     | Total/NA  | Solid  | 8021B  | 20906      |
| 880-12070-4         | T1                     | Total/NA  | Solid  | 8021B  | 20906      |
| 880-12070-5         | T1                     | Total/NA  | Solid  | 8021B  | 20906      |
| MB 880-20906/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 20906      |
| LCS 880-20906/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 20906      |
| LCSD 880-20906/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 20906      |
| 880-12188-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 20906      |
| 880-12188-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 20906      |

## Analysis Batch: 21335

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-12070-1   | T1               | Total/NA  | Solid  | Total BTEX |            |
| 880-12070-2   | T1               | Total/NA  | Solid  | Total BTEX |            |
| 880-12070-3   | T1               | Total/NA  | Solid  | Total BTEX |            |
| 880-12070-4   | T1               | Total/NA  | Solid  | Total BTEX |            |
| 880-12070-5   | T1               | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 21112

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 880-12070-1          | T1                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12070-2          | T1                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12070-3          | T1                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12070-4          | T1                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12070-5          | T1                     | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-21112/1-A     | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-21112/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-21112/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12075-A-21-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12075-A-21-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21117

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 880-12070-1   | T1               | Total/NA  | Solid  | 8015B NM | 21112      |
| 880-12070-2   | T1               | Total/NA  | Solid  | 8015B NM | 21112      |

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## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

## GC Semi VOA (Continued)

## Analysis Batch: 21117 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 880-12070-3          | T1                     | Total/NA  | Solid  | 8015B NM | 21112      |
| 880-12070-4          | T1                     | Total/NA  | Solid  | 8015B NM | 21112      |
| 880-12070-5          | T1                     | Total/NA  | Solid  | 8015B NM | 21112      |
| MB 880-21112/1-A     | Method Blank           | Total/NA  | Solid  | 8015B NM | 21112      |
| LCS 880-21112/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 21112      |
| LCSD 880-21112/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 21112      |
| 880-12075-A-21-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 21112      |
| 880-12075-A-21-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 21112      |

## Analysis Batch: 21254

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-12070-1   | T1               | Total/NA  | Solid  | 8015 NM |            |
| 880-12070-2   | T1               | Total/NA  | Solid  | 8015 NM |            |
| 880-12070-3   | T1               | Total/NA  | Solid  | 8015 NM |            |
| 880-12070-4   | T1               | Total/NA  | Solid  | 8015 NM |            |
| 880-12070-5   | T1               | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 21033

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 880-12070-1          | T1                     | Soluble   | Solid  | DI Leach |            |
| 880-12070-2          | T1                     | Soluble   | Solid  | DI Leach |            |
| 880-12070-3          | T1                     | Soluble   | Solid  | DI Leach |            |
| 880-12070-4          | T1                     | Soluble   | Solid  | DI Leach |            |
| 880-12070-5          | T1                     | Soluble   | Solid  | DI Leach |            |
| MB 880-21033/1-A     | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-21033/2-A    | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-21033/3-A   | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-12069-A-8-C MS   | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-12069-A-8-D MSD  | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |
| 880-12069-A-18-D MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-12069-A-18-E MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 21203

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-12070-1          | T1                     | Soluble   | Solid  | 300.0  | 21033      |
| 880-12070-2          | T1                     | Soluble   | Solid  | 300.0  | 21033      |
| 880-12070-3          | T1                     | Soluble   | Solid  | 300.0  | 21033      |
| 880-12070-4          | T1                     | Soluble   | Solid  | 300.0  | 21033      |
| 880-12070-5          | T1                     | Soluble   | Solid  | 300.0  | 21033      |
| MB 880-21033/1-A     | Method Blank           | Soluble   | Solid  | 300.0  | 21033      |
| LCS 880-21033/2-A    | Lab Control Sample     | Soluble   | Solid  | 300.0  | 21033      |
| LCSD 880-21033/3-A   | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 21033      |
| 880-12069-A-8-C MS   | Matrix Spike           | Soluble   | Solid  | 300.0  | 21033      |
| 880-12069-A-8-D MSD  | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 21033      |
| 880-12069-A-18-D MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 21033      |
| 880-12069-A-18-E MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 21033      |

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## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

## Client Sample ID: T1

## Lab Sample ID: 880-12070-1

Date Collected: 03/03/22 13:00

Matrix: Solid

Date Received: 03/04/22 16:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 20906        | 03/09/22 08:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21187        | 03/09/22 17:38       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21335        | 03/10/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21254        | 03/09/22 19:12       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 21112        | 03/08/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21117        | 03/09/22 06:07       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 21033        | 03/07/22 11:03       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 21203        | 03/11/22 23:53       | CH      | XEN MID |

## Client Sample ID: T1

## Lab Sample ID: 880-12070-2

Date Collected: 03/03/22 13:05

Matrix: Solid

Date Received: 03/04/22 16:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 20906        | 03/09/22 08:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21187        | 03/09/22 17:58       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21335        | 03/10/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21254        | 03/09/22 19:12       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 21112        | 03/08/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21117        | 03/09/22 06:27       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 21033        | 03/07/22 11:03       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 21203        | 03/11/22 23:59       | CH      | XEN MID |

## Client Sample ID: T1

## Lab Sample ID: 880-12070-3

Date Collected: 03/03/22 13:10

Matrix: Solid

Date Received: 03/04/22 16:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 20906        | 03/09/22 08:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21187        | 03/09/22 18:19       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21335        | 03/10/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21254        | 03/09/22 19:12       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 21112        | 03/08/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21117        | 03/09/22 06:48       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 21033        | 03/07/22 11:03       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 21203        | 03/12/22 00:05       | CH      | XEN MID |

## Client Sample ID: T1

## Lab Sample ID: 880-12070-4

Date Collected: 03/03/22 13:15

Matrix: Solid

Date Received: 03/04/22 16:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 20906        | 03/09/22 08:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21187        | 03/09/22 18:39       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21335        | 03/10/22 16:12       | AJ      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

Client Sample ID: T1

Lab Sample ID: 880-12070-4

Date Collected: 03/03/22 13:15

Matrix: Solid

Date Received: 03/04/22 16:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21254        | 03/09/22 19:12       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 21112        | 03/08/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21117        | 03/09/22 07:10       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 21033        | 03/07/22 11:03       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 21203        | 03/12/22 00:11       | CH      | XEN MID |

Client Sample ID: T1

Lab Sample ID: 880-12070-5

Date Collected: 03/03/22 13:20

Matrix: Solid

Date Received: 03/04/22 16:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 20906        | 03/09/22 08:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 21187        | 03/09/22 18:59       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 21335        | 03/10/22 16:12       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 21254        | 03/09/22 19:12       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 21112        | 03/08/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21117        | 03/09/22 07:32       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 21033        | 03/07/22 11:03       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 21203        | 03/12/22 00:17       | CH      | XEN MID |

## Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-21-22      | 06-30-22        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte    |
|-----------------|-------------|--------|------------|
| 8015 NM         |             | Solid  | Total TPH  |
| Total BTEX      |             | Solid  | Total BTEX |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

## Method Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

## Sample Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12070-1  
SDG: Andrews

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-12070-1   | T1               | Solid  | 03/03/22 13:00 | 03/04/22 16:12 | 0-6"  |
| 880-12070-2   | T1               | Solid  | 03/03/22 13:05 | 03/04/22 16:12 | 2'    |
| 880-12070-3   | T1               | Solid  | 03/03/22 13:10 | 03/04/22 16:12 | 3'    |
| 880-12070-4   | T1               | Solid  | 03/03/22 13:15 | 03/04/22 16:12 | 4'    |
| 880-12070-5   | T1               | Solid  | 03/03/22 13:20 | 03/04/22 16:12 | 4.5'  |



Eurofins  
Laboratory Services

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300  
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334  
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296  
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 12070

www.xenco.com Page 1 of 1

|                 |                        |                        |                                            |
|-----------------|------------------------|------------------------|--------------------------------------------|
| Project Manager | Grant Huckabay         | Bill to (if different) |                                            |
| Company Name    | Fasken Oil and Ranch   | Company Name           |                                            |
| Address         | 6101 Holiday Hill Road | Address                |                                            |
| City State ZIP  | Midland TX 79707       | City State ZIP         |                                            |
| Phone           | 432-687-1777           | Email                  | grant.huckabay@forl.com / addison@forl.com |

|                     |                                                                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order Comments |                                                                                                                                                                       |
| Program             | UST/ST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>     |
| State of Project    |                                                                                                                                                                       |
| Reporting Level     | Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Deliverables        | EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other <input type="checkbox"/>                                                                            |

|                         |                                                                                                                                                            |                                                              |                                                                           |            |  |                  |  |                                   |                                                                 |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------|------------|--|------------------|--|-----------------------------------|-----------------------------------------------------------------|
| Project Name            | CARBOT SMD                                                                                                                                                 | Turn Around                                                  | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code |  | ANALYSIS REQUEST |  | Preservative Codes                |                                                                 |
| Project Number          |                                                                                                                                                            | Due Date                                                     | 3/10/22                                                                   |            |  |                  |  | None NO DI Water H <sub>2</sub> O |                                                                 |
| Project Location        | Andrews                                                                                                                                                    | TAT starts the day received by the lab if received by 4:30pm |                                                                           |            |  |                  |  |                                   | Cool Cool MeOH Me                                               |
| Sampler's Name          | Addison Guelker                                                                                                                                            |                                                              |                                                                           |            |  |                  |  |                                   | HCL HC HNO <sub>3</sub> HN                                      |
| PO #                    |                                                                                                                                                            |                                                              |                                                                           |            |  |                  |  |                                   | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> NaOH Na           |
| SAMPLE RECEIPT          | Temp Blank Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wet Ice Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                                              |                                                                           |            |  |                  |  |                                   | H <sub>3</sub> PO <sub>4</sub> HP                               |
| Samples Received Intact | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                        | Thermometer ID                                               | 118                                                                       |            |  |                  |  |                                   | NaHSO <sub>4</sub> NABIS                                        |
| Cooler Custody Seals    | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                        | Correction Factor                                            |                                                                           |            |  |                  |  |                                   | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> |
| Sample Custody Seals    | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                        | Temperature Reading                                          | 1.2                                                                       |            |  |                  |  |                                   | Zn Acetate+NaOH Zn                                              |
| Total Containers        | Corrected Temperature                                                                                                                                      | 1.1                                                          |                                                                           |            |  |                  |  |                                   | NaOH+Ascorbic Acid SAPC                                         |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grav/Comp | # of Cont | CL | EC           | TPH | BTE | Sample Comments |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|----|--------------|-----|-----|-----------------|--|--|--|--|--|--|--|--|--|--|
| TI                    | S      | 3/3/22       | 1:00 P       | 0-6'  | 6         | 1         | X  | <del>5</del> | X   | X   |                 |  |  |  |  |  |  |  |  |  |  |
| TI                    |        |              | 1:05 P       | 2'    |           |           | X  |              | X   | X   |                 |  |  |  |  |  |  |  |  |  |  |
| TI                    |        |              | 1:10 P       | 3'    |           |           | X  |              | X   | X   |                 |  |  |  |  |  |  |  |  |  |  |
| TI                    |        |              | 1:15 P       | 4'    |           |           | X  |              | X   | X   |                 |  |  |  |  |  |  |  |  |  |  |
| TI                    |        |              | 1:20 P       | 4.5'  | 6         | 1         | X  |              | X   | X   |                 |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |           |           |    |              |     |     |                 |  |  |  |  |  |  |  |  |  |  |
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880-12070 Chain of Custody

|                                              |               |                  |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                           |    |                  |    |    |    |    |   |   |    |  |  |  |
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| Total 200.7 / 6010                           | 200.8 / 6020: | 8RCRA 13PPM      | Texas 11 | Al | Sb | As | Ba | Be | B  | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Mo | Ni | K  | Se                        | Ag | SiO <sub>2</sub> | Na | Sr | Ti | Sn | U | V | Zn |  |  |  |
| Circle Method(s) and Metal(s) to be analyzed |               | TCLP / SPLP 6010 | 8RCRA    | Sb | As | Ba | Be | Cd | Cr | Co | Cu | Pb | Mn | Mo | Ni | Se | Ag | Ti | U  |    | Hg | 1631 / 2451 / 7470 / 7471 |    |                  |    |    |    |    |   |   |    |  |  |  |

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| 1. <i>Addison</i>           | <i>Grant Huckabay</i>   | 3/14/22   | 2.                          |                         |           |
| 3.                          |                         | 10/12     | 4.                          |                         |           |
| 5.                          |                         |           | 6.                          |                         |           |



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-12600-1  
Client Project/Site: Cabot Q SWD

**For:**

Fasken Oil and Ranch  
6101 Holiday Hill Road  
Midland, Texas 79707

Attn: Grant Huckabay

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
3/29/2022 10:37:48 AM

Jessica Kramer, Project Manager  
(432)704-5440  
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*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Laboratory Job ID: 880-12600-1

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## Definitions/Glossary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD exceeds control limits                        |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

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## Case Narrative

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

**Job ID: 880-12600-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-12600-1****Receipt**

The samples were received on 3/18/2022 3:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C

**GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21917 and analytical batch 880-21985 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

Client Sample ID: H1

Lab Sample ID: 880-12600-1

Date Collected: 03/18/22 09:05

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U F2 F1   | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:21 | 1       |
| Toluene             | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:21 | 1       |
| Ethylbenzene        | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:21 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U F1      | 0.00398 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:21 | 1       |
| o-Xylene            | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:21 | 1       |
| Xylenes, Total      | <0.00398 | U F1      | 0.00398 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:21 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 12:21 | 1       |
| 1,4-Difluorobenzene (Surr)  | 111       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 12:21 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 12:18 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U F1      | 49.8 |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 12:18 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 12:18 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 100       |           | 70 - 130 | 03/18/22 15:35 | 03/21/22 12:18 | 1       |
| o-Terphenyl    | 98        |           | 70 - 130 | 03/18/22 15:35 | 03/21/22 12:18 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00  | U         | 5.00 |     | mg/Kg |   |          | 03/28/22 20:25 | 1       |

Client Sample ID: H1

Lab Sample ID: 880-12600-2

Date Collected: 03/18/22 09:10

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:41 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:41 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:41 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:41 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:41 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:41 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 12:41 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H1

Lab Sample ID: 880-12600-2

Date Collected: 03/18/22 09:10

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 110       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 12:41 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 13:22 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 13:22 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 13:22 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 105       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 13:22 | 1       |
| o-Terphenyl                          | 103       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 13:22 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 13.8   |           | 4.97 |     | mg/Kg |   |          | 03/28/22 20:52 | 1       |

## Client Sample ID: H2

Lab Sample ID: 880-12600-3

Date Collected: 03/18/22 09:15

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:02 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:02 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:02 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:02 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:02 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:02 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 13:02 | 1       |
| 1,4-Difluorobenzene (Surr)  | 104       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 13:02 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H2

Lab Sample ID: 880-12600-3

Date Collected: 03/18/22 09:15

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 13:44 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 13:44 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 13:44 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 111       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 13:44 | 1       |
| o-Terphenyl                          | 112       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 13:44 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 109    |           | 4.98 |     | mg/Kg |   |          | 03/28/22 21:01 | 1       |

## Client Sample ID: H2

Lab Sample ID: 880-12600-4

Date Collected: 03/18/22 09:20

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:22 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:22 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:22 | 1       |
| m-Xylene & p-Xylene         | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:22 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:22 | 1       |
| Xylenes, Total              | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:22 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 13:22 | 1       |
| 1,4-Difluorobenzene (Surr)  | 110       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 13:22 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 14:05 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 14:05 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 14:05 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 105       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 14:05 | 1       |
| o-Terphenyl                          | 107       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 14:05 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H2

Lab Sample ID: 880-12600-4

Date Collected: 03/18/22 09:20

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 572    |           | 25.1 |     | mg/Kg |   |          | 03/28/22 21:10 | 5       |

## Client Sample ID: H3

Lab Sample ID: 880-12600-5

Date Collected: 03/18/22 09:25

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:43 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:43 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:43 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:43 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:43 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:43 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 13:43 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 13:43 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 14:26 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 14:26 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 14:26 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 109       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 14:26 | 1       |
| o-Terphenyl                          | 110       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 14:26 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 60.3   |           | 4.98 |     | mg/Kg |   |          | 03/28/22 21:19 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

Client Sample ID: H3

Lab Sample ID: 880-12600-6

Date Collected: 03/18/22 09:30

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:03 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:03 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:03 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:03 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:03 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:03 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 14:03 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 14:03 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 84.7   |           | 50.0 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 14:47 | 1       |
| Diesel Range Organics (Over C10-C28) | 84.7   |           | 50.0 |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 14:47 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 14:47 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 103       |           | 70 - 130 | 03/18/22 15:35 | 03/21/22 14:47 | 1       |
| o-Terphenyl    | 103       |           | 70 - 130 | 03/18/22 15:35 | 03/21/22 14:47 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 49.9   |           | 4.95 |     | mg/Kg |   |          | 03/28/22 21:45 | 1       |

Client Sample ID: H4

Lab Sample ID: 880-12600-7

Date Collected: 03/18/22 09:35

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:24 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:24 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:24 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:24 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:24 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:24 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 14:24 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

Client Sample ID: H4

Lab Sample ID: 880-12600-7

Date Collected: 03/18/22 09:35

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 108       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 14:24 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 15:08 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 15:08 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 15:08 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 112       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 15:08 | 1       |
| o-Terphenyl                          | 110       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 15:08 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 9.03   |           | 5.05 |     | mg/Kg |   |          | 03/28/22 21:54 | 1       |

Client Sample ID: H4

Lab Sample ID: 880-12600-8

Date Collected: 03/18/22 09:40

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:44 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:44 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:44 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:44 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:44 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:44 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 14:44 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 14:44 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H4

Lab Sample ID: 880-12600-8

Date Collected: 03/18/22 09:40

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 15:29 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 15:29 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 15:29 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 130       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 15:29 | 1       |
| o-Terphenyl                          | 126       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 15:29 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 671    |           | 4.99 |     | mg/Kg |   |          | 03/28/22 22:03 | 1       |

## Client Sample ID: H5

Lab Sample ID: 880-12600-9

Date Collected: 03/18/22 09:45

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:05 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:05 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:05 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:05 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:05 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:05 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 15:05 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 15:05 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 15:50 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 15:50 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 15:50 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 109       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 15:50 | 1       |
| o-Terphenyl                          | 108       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 15:50 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H5

Lab Sample ID: 880-12600-9

Date Collected: 03/18/22 09:45

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 24.8   |           | 4.98 |     | mg/Kg |   |          | 03/28/22 22:12 | 1       |

## Client Sample ID: H5

Lab Sample ID: 880-12600-10

Date Collected: 03/18/22 09:50

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:25 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:25 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:25 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:25 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:25 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:25 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 15:25 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 15:25 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 16:12 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 16:12 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 16:12 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 106       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 16:12 | 1       |
| o-Terphenyl                          | 109       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 16:12 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 153    |           | 5.01 |     | mg/Kg |   |          | 03/28/22 22:21 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

Client Sample ID: H6

Lab Sample ID: 880-12600-11

Date Collected: 03/18/22 10:05

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:18 | 1       |
| Toluene             | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:18 | 1       |
| Ethylbenzene        | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:18 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:18 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:18 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:18 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 13:18 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 13:18 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 16:54 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 16:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 16:54 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 109       |           | 70 - 130 | 03/18/22 15:35 | 03/21/22 16:54 | 1       |
| o-Terphenyl    | 106       |           | 70 - 130 | 03/18/22 15:35 | 03/21/22 16:54 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 31.4   |           | 5.00 |     | mg/Kg |   |          | 03/28/22 22:30 | 1       |

Client Sample ID: H6

Lab Sample ID: 880-12600-12

Date Collected: 03/18/22 10:10

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:39 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:39 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:39 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:39 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:39 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:39 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 13:39 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H6

Lab Sample ID: 880-12600-12

Date Collected: 03/18/22 10:10

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 104       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 13:39 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 17:15 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 17:15 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 17:15 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 105       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 17:15 | 1       |
| o-Terphenyl                          | 107       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 17:15 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 48.7   |           | 4.99 |     | mg/Kg |   |          | 03/28/22 22:56 | 1       |

## Client Sample ID: H7

Lab Sample ID: 880-12600-13

Date Collected: 03/18/22 10:15

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:59 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:59 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:59 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:59 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:59 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 13:59 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 13:59 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 13:59 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H7

Lab Sample ID: 880-12600-13

Date Collected: 03/18/22 10:15

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 17:36 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 17:36 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 17:36 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 102       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 17:36 | 1       |
| o-Terphenyl                          | 96        |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 17:36 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 26.2   |           | 4.95 |     | mg/Kg |   |          | 03/28/22 23:05 | 1       |

## Client Sample ID: H7

Lab Sample ID: 880-12600-14

Date Collected: 03/18/22 10:20

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:19 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:19 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:19 | 1       |
| m-Xylene & p-Xylene         | <0.00403  | U         | 0.00403  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:19 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:19 | 1       |
| Xylenes, Total              | <0.00403  | U         | 0.00403  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:19 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 14:19 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 14:19 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 17:56 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 17:56 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 17:56 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 106       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 17:56 | 1       |
| o-Terphenyl                          | 103       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 17:56 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H7

Lab Sample ID: 880-12600-14

Date Collected: 03/18/22 10:20

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <4.96  | U         | 4.96 |     | mg/Kg |   |          | 03/28/22 23:32 | 1       |

## Client Sample ID: H8

Lab Sample ID: 880-12600-15

Date Collected: 03/18/22 10:25

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:40 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:40 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:40 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:40 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:40 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 14:40 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 114       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 14:40 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 14:40 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 18:17 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 18:17 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 18:17 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 105       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 18:17 | 1       |
| o-Terphenyl                          | 104       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 18:17 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.05  | U         | 5.05 |     | mg/Kg |   |          | 03/28/22 23:41 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

Client Sample ID: H8

Lab Sample ID: 880-12600-16

Date Collected: 03/18/22 10:30

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:00 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:00 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:00 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:00 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:00 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 15:00 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 15:00 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 15:00 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 18:38 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 18:38 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 18:38 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 104       |           | 70 - 130 | 03/18/22 15:35 | 03/21/22 18:38 | 1       |
| o-Terphenyl    | 105       |           | 70 - 130 | 03/18/22 15:35 | 03/21/22 18:38 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 29.1   |           | 4.98 |     | mg/Kg |   |          | 03/28/22 23:49 | 1       |

Client Sample ID: H9

Lab Sample ID: 880-12600-17

Date Collected: 03/18/22 10:35

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:12 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:12 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:12 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:12 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:12 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:12 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 18:12 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H9

Lab Sample ID: 880-12600-17

Date Collected: 03/18/22 10:35

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 96        |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 18:12 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8     | U         | 49.8     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 18:59 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 18:59 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 18:59 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 103       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 18:59 | 1       |
| o-Terphenyl                          | 103       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 18:59 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00  | U         | 5.00 |     | mg/Kg |   |          | 03/28/22 23:58 | 1       |

## Client Sample ID: H9

Lab Sample ID: 880-12600-18

Date Collected: 03/18/22 10:40

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:32 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:32 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:32 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:32 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:32 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:32 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 18:32 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 | 03/23/22 07:30 | 03/23/22 18:32 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H9

Lab Sample ID: 880-12600-18

Date Collected: 03/18/22 10:40

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 19:20 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 19:20 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 19:20 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 105       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 19:20 | 1       |
| o-Terphenyl                          | 104       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 19:20 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 19.5   |           | 5.01 |     | mg/Kg |   |          | 03/29/22 00:07 | 1       |

## Client Sample ID: H10

Lab Sample ID: 880-12600-19

Date Collected: 03/18/22 10:45

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:53 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:53 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:53 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:53 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:53 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 18:53 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 111       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 18:53 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 18:53 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 19:40 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 19:40 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 19:40 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 100       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 19:40 | 1       |
| o-Terphenyl                          | 100       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 19:40 | 1       |

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## Client Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H10

Lab Sample ID: 880-12600-19

Date Collected: 03/18/22 10:45

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 0-6"

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 19.9   |           | 4.95 |     | mg/Kg |   |          | 03/29/22 00:16 | 1       |

## Client Sample ID: H10

Lab Sample ID: 880-12600-20

Date Collected: 03/18/22 10:50

Matrix: Solid

Date Received: 03/18/22 15:12

Sample Depth: 1'

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 19:13 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 19:13 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 19:13 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 19:13 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 19:13 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 19:13 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 19:13 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 |     |       |   | 03/23/22 07:30 | 03/23/22 19:13 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 03/23/22 14:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 03/22/22 09:23 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 20:01 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 20:01 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 20:01 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 93        |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 20:01 | 1       |
| o-Terphenyl                          | 93        |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 20:01 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 16.9   |           | 5.00 |     | mg/Kg |   |          | 03/29/22 00:25 | 1       |

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## Surrogate Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID      | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|--------------------|------------------------|------------------------------------------------|-------------------|
|                    |                        | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-12600-1        | H1                     | 107                                            | 111               |
| 880-12600-1 MS     | H1                     | 106                                            | 103               |
| 880-12600-1 MSD    | H1                     | 106                                            | 111               |
| 880-12600-2        | H1                     | 105                                            | 110               |
| 880-12600-3        | H2                     | 105                                            | 104               |
| 880-12600-4        | H2                     | 106                                            | 110               |
| 880-12600-5        | H3                     | 103                                            | 107               |
| 880-12600-6        | H3                     | 104                                            | 109               |
| 880-12600-7        | H4                     | 103                                            | 108               |
| 880-12600-8        | H4                     | 105                                            | 109               |
| 880-12600-9        | H5                     | 102                                            | 109               |
| 880-12600-10       | H5                     | 105                                            | 108               |
| 880-12600-11       | H6                     | 103                                            | 105               |
| 880-12600-11 MS    | H6                     | 104                                            | 99                |
| 880-12600-11 MSD   | H6                     | 103                                            | 91                |
| 880-12600-12       | H6                     | 106                                            | 104               |
| 880-12600-13       | H7                     | 109                                            | 102               |
| 880-12600-14       | H7                     | 109                                            | 105               |
| 880-12600-15       | H8                     | 114                                            | 101               |
| 880-12600-16       | H8                     | 106                                            | 100               |
| 880-12600-17       | H9                     | 109                                            | 96                |
| 880-12600-18       | H9                     | 109                                            | 102               |
| 880-12600-19       | H10                    | 111                                            | 102               |
| 880-12600-20       | H10                    | 109                                            | 101               |
| LCS 880-21852/1-A  | Lab Control Sample     | 97                                             | 101               |
| LCS 880-21854/1-A  | Lab Control Sample     | 102                                            | 110               |
| LCSD 880-21852/2-A | Lab Control Sample Dup | 96                                             | 101               |
| LCSD 880-21854/2-A | Lab Control Sample Dup | 102                                            | 109               |
| MB 880-21852/5-A   | Method Blank           | 99                                             | 101               |
| MB 880-21854/5-B   | Method Blank           | 103                                            | 104               |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID   | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------|------------------|------------------------------------------------|-------------------|
|                 |                  | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-12600-1     | H1               | 100                                            | 98                |
| 880-12600-1 MS  | H1               | 84                                             | 74                |
| 880-12600-1 MSD | H1               | 97                                             | 89                |
| 880-12600-2     | H1               | 105                                            | 103               |
| 880-12600-3     | H2               | 111                                            | 112               |
| 880-12600-4     | H2               | 105                                            | 107               |
| 880-12600-5     | H3               | 109                                            | 110               |
| 880-12600-6     | H3               | 103                                            | 103               |
| 880-12600-7     | H4               | 112                                            | 110               |

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## Surrogate Summary

Client: Fasken Oil and Ranch

Job ID: 880-12600-1

Project/Site: Cabot Q SWD

**Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)****Matrix: Solid****Prep Type: Total/NA**

|                    |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|--------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID      | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-12600-8        | H4                     | 130                                            | 126               |
| 880-12600-9        | H5                     | 109                                            | 108               |
| 880-12600-10       | H5                     | 106                                            | 109               |
| 880-12600-11       | H6                     | 109                                            | 106               |
| 880-12600-12       | H6                     | 105                                            | 107               |
| 880-12600-13       | H7                     | 102                                            | 96                |
| 880-12600-14       | H7                     | 106                                            | 103               |
| 880-12600-15       | H8                     | 105                                            | 104               |
| 880-12600-16       | H8                     | 104                                            | 105               |
| 880-12600-17       | H9                     | 103                                            | 103               |
| 880-12600-18       | H9                     | 105                                            | 104               |
| 880-12600-19       | H10                    | 100                                            | 100               |
| 880-12600-20       | H10                    | 93                                             | 93                |
| LCS 880-21917/2-A  | Lab Control Sample     | 105                                            | 105               |
| LCSD 880-21917/3-A | Lab Control Sample Dup | 92                                             | 90                |
| MB 880-21917/1-A   | Method Blank           | 103                                            | 107               |

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21852/5-A

Matrix: Solid

Analysis Batch: 22187

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21852

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:49 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:49 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:49 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:49 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:49 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 12:49 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99           |              | 70 - 130 | 03/23/22 07:30 | 03/23/22 12:49 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101          |              | 70 - 130 | 03/23/22 07:30 | 03/23/22 12:49 | 1       |

Lab Sample ID: LCS 880-21852/1-A

Matrix: Solid

Analysis Batch: 22187

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21852

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.09925    |               | mg/Kg |   | 99   | 70 - 130     |
| Toluene             | 0.100       | 0.09683    |               | mg/Kg |   | 97   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.09894    |               | mg/Kg |   | 99   | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2312     |               | mg/Kg |   | 116  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1122     |               | mg/Kg |   | 112  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 97            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21852/2-A

Matrix: Solid

Analysis Batch: 22187

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21852

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene             | 0.100       | 0.09329     |                | mg/Kg |   | 93   | 70 - 130     | 6   | 35    |
| Toluene             | 0.100       | 0.09152     |                | mg/Kg |   | 92   | 70 - 130     | 6   | 35    |
| Ethylbenzene        | 0.100       | 0.09201     |                | mg/Kg |   | 92   | 70 - 130     | 7   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2158      |                | mg/Kg |   | 108  | 70 - 130     | 7   | 35    |
| o-Xylene            | 0.100       | 0.1060      |                | mg/Kg |   | 106  | 70 - 130     | 6   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 96             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101            |                | 70 - 130 |

Lab Sample ID: 880-12600-11 MS

Matrix: Solid

Analysis Batch: 22187

Client Sample ID: H6

Prep Type: Total/NA

Prep Batch: 21852

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <0.00199      | U F1             | 0.100       | 0.06760   | F1           | mg/Kg |   | 67   | 70 - 130     |
| Toluene | <0.00199      | U F1             | 0.100       | 0.06910   | F1           | mg/Kg |   | 69   | 70 - 130     |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-12600-11 MS

Matrix: Solid

Analysis Batch: 22187

Client Sample ID: H6

Prep Type: Total/NA

Prep Batch: 21852

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Ethylbenzene        | <0.00199      | U F1             | 0.100       | 0.07113   |              | mg/Kg |   | 71   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.201       | 0.1660    |              | mg/Kg |   | 83   | 70 - 130     |
| o-Xylene            | <0.00199      | U                | 0.100       | 0.08608   |              | mg/Kg |   | 86   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 104          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99           |              | 70 - 130 |

Lab Sample ID: 880-12600-11 MSD

Matrix: Solid

Analysis Batch: 22187

Client Sample ID: H6

Prep Type: Total/NA

Prep Batch: 21852

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| Benzene             | <0.00199      | U F1             | 0.0996      | 0.05246    | F1            | mg/Kg |   | 53   | 70 - 130     | 25  | 35    |
| Toluene             | <0.00199      | U F1             | 0.0996      | 0.05931    | F1            | mg/Kg |   | 60   | 70 - 130     | 15  | 35    |
| Ethylbenzene        | <0.00199      | U F1             | 0.0996      | 0.06359    | F1            | mg/Kg |   | 64   | 70 - 130     | 11  | 35    |
| m-Xylene & p-Xylene | <0.00398      | U                | 0.199       | 0.1459     |               | mg/Kg |   | 73   | 70 - 130     | 13  | 35    |
| o-Xylene            | <0.00199      | U                | 0.0996      | 0.07610    |               | mg/Kg |   | 76   | 70 - 130     | 12  | 35    |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 103           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 91            |               | 70 - 130 |

Lab Sample ID: MB 880-21854/5-B

Matrix: Solid

Analysis Batch: 22183

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21854

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 11:59 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 11:59 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 11:59 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 11:59 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 11:59 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 03/23/22 07:30 | 03/23/22 11:59 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103          |              | 70 - 130 | 03/23/22 07:30 | 03/23/22 11:59 | 1       |
| 1,4-Difluorobenzene (Surr)  | 104          |              | 70 - 130 | 03/23/22 07:30 | 03/23/22 11:59 | 1       |

Lab Sample ID: LCS 880-21854/1-A

Matrix: Solid

Analysis Batch: 22183

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21854

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.09671    |               | mg/Kg |   | 97   | 70 - 130     |
| Toluene             | 0.100       | 0.09718    |               | mg/Kg |   | 97   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.09994    |               | mg/Kg |   | 100  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2047     |               | mg/Kg |   | 102  | 70 - 130     |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-21854/1-A

Matrix: Solid

Analysis Batch: 22183

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21854

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| o-Xylene | 0.100       | 0.1013     |               | mg/Kg |   | 101  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 102           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 110           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21854/2-A

Matrix: Solid

Analysis Batch: 22183

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21854

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.09015     |                | mg/Kg |   | 90   | 70 - 130     | 7   | 35        |
| Toluene             | 0.100       | 0.09019     |                | mg/Kg |   | 90   | 70 - 130     | 7   | 35        |
| Ethylbenzene        | 0.100       | 0.09346     |                | mg/Kg |   | 93   | 70 - 130     | 7   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1922      |                | mg/Kg |   | 96   | 70 - 130     | 6   | 35        |
| o-Xylene            | 0.100       | 0.09452     |                | mg/Kg |   | 95   | 70 - 130     | 7   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 102            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 109            |                | 70 - 130 |

Lab Sample ID: 880-12600-1 MS

Matrix: Solid

Analysis Batch: 22183

Client Sample ID: H1

Prep Type: Total/NA

Prep Batch: 21854

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene             | <0.00199      | U F2 F1          | 0.100       | 0.04998   | F1           | mg/Kg |   | 50   | 70 - 130     |
| Toluene             | <0.00199      | U F1             | 0.100       | 0.05467   | F1           | mg/Kg |   | 54   | 70 - 130     |
| Ethylbenzene        | <0.00199      | U F1             | 0.100       | 0.05527   | F1           | mg/Kg |   | 55   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.201       | 0.1120    | F1           | mg/Kg |   | 56   | 70 - 130     |
| o-Xylene            | <0.00199      | U F1             | 0.100       | 0.05918   | F1           | mg/Kg |   | 59   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 106          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103          |              | 70 - 130 |

Lab Sample ID: 880-12600-1 MSD

Matrix: Solid

Analysis Batch: 22183

Client Sample ID: H1

Prep Type: Total/NA

Prep Batch: 21854

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00199      | U F2 F1          | 0.101       | 0.07415    | F2            | mg/Kg |   | 73   | 70 - 130     | 39  | 35        |
| Toluene             | <0.00199      | U F1             | 0.101       | 0.06882    | F1            | mg/Kg |   | 68   | 70 - 130     | 23  | 35        |
| Ethylbenzene        | <0.00199      | U F1             | 0.101       | 0.06557    | F1            | mg/Kg |   | 65   | 70 - 130     | 17  | 35        |
| m-Xylene & p-Xylene | <0.00398      | U F1             | 0.202       | 0.1344     | F1            | mg/Kg |   | 67   | 70 - 130     | 18  | 35        |
| o-Xylene            | <0.00199      | U F1             | 0.101       | 0.06757    | F1            | mg/Kg |   | 67   | 70 - 130     | 13  | 35        |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-12600-1 MSD

Matrix: Solid

Analysis Batch: 22183

Client Sample ID: H1

Prep Type: Total/NA

Prep Batch: 21854

|                             | MSD       | MSD       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111       |           | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-21917/1-A

Matrix: Solid

Analysis Batch: 21985

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21917

|                                      | MB        | MB        |          |     |       |   |                |                |     |     |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|-----|-----|
| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil | Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 11:14 | 1   |     |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 11:14 | 1   |     |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 03/18/22 15:35 | 03/21/22 11:14 | 1   |     |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil | Fac |
| 1-Chlorooctane                       | 103       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 11:14 | 1   |     |
| o-Terphenyl                          | 107       |           | 70 - 130 |     |       |   | 03/18/22 15:35 | 03/21/22 11:14 | 1   |     |

Lab Sample ID: LCS 880-21917/2-A

Matrix: Solid

Analysis Batch: 21985

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21917

|                                      |           |           | Spike    | LCS    | LCS       |       |   |      | %Rec.    |  |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|--|
| Analyte                              |           |           | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   |  |
| Gasoline Range Organics (GRO)-C6-C10 |           |           | 1000     | 801.3  |           | mg/Kg |   | 80   | 70 - 130 |  |
| Diesel Range Organics (Over C10-C28) |           |           | 1000     | 1012   |           | mg/Kg |   | 101  | 70 - 130 |  |
| Surrogate                            | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |  |
| 1-Chlorooctane                       | 105       |           | 70 - 130 |        |           |       |   |      |          |  |
| o-Terphenyl                          | 105       |           | 70 - 130 |        |           |       |   |      |          |  |

Lab Sample ID: LCSD 880-21917/3-A

Matrix: Solid

Analysis Batch: 21985

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21917

|                                      |           |           | Spike    | LCSD   | LCSD      |       |   |      | %Rec.    |     | RPD   |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                              |           |           | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 |           |           | 1000     | 838.2  |           | mg/Kg |   | 84   | 70 - 130 | 4   | 20    |
| Diesel Range Organics (Over C10-C28) |           |           | 1000     | 871.7  |           | mg/Kg |   | 87   | 70 - 130 | 15  | 20    |
| Surrogate                            | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |     |       |
| 1-Chlorooctane                       | 92        |           | 70 - 130 |        |           |       |   |      |          |     |       |
| o-Terphenyl                          | 90        |           | 70 - 130 |        |           |       |   |      |          |     |       |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-12600-1 MS

Matrix: Solid

Analysis Batch: 21985

Client Sample ID: H1

Prep Type: Total/NA

Prep Batch: 21917

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 818.6     |              | mg/Kg |   | 82   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | <49.8         | U F1             | 998         | 653.4     | F1           | mg/Kg |   | 62   | 70 - 130     |
| Surrogate                            | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |
| 1-Chlorooctane                       | 84            |                  | 70 - 130    |           |              |       |   |      |              |
| o-Terphenyl                          | 74            |                  | 70 - 130    |           |              |       |   |      |              |

Lab Sample ID: 880-12600-1 MSD

Matrix: Solid

Analysis Batch: 21985

Client Sample ID: H1

Prep Type: Total/NA

Prep Batch: 21917

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 999         | 817.6      |               | mg/Kg |   | 82   | 70 - 130     | 0   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.8         | U F1             | 999         | 758.6      |               | mg/Kg |   | 73   | 70 - 130     | 15  | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| 1-Chlorooctane                       | 97            |                  | 70 - 130    |            |               |       |   |      |              |     |           |
| o-Terphenyl                          | 89            |                  | 70 - 130    |            |               |       |   |      |              |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21923/1-A

Matrix: Solid

Analysis Batch: 22049

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 |     | mg/Kg |   |          | 03/28/22 19:59 | 1       |

Lab Sample ID: LCS 880-21923/2-A

Matrix: Solid

Analysis Batch: 22049

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 250         | 243.7      |               | mg/Kg |   | 97   | 90 - 110     |

Lab Sample ID: LCSD 880-21923/3-A

Matrix: Solid

Analysis Batch: 22049

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250         | 245.0       |                | mg/Kg |   | 98   | 90 - 110     | 1   | 20        |

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## QC Sample Results

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-12600-1 MS

Matrix: Solid

Analysis Batch: 22049

Client Sample ID: H1

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |  |  |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|--|--|
| Chloride | <5.00         | U                | 250         | 270.2     |              | mg/Kg |   | 107  | 90 - 110     |  |  |

Lab Sample ID: 880-12600-1 MSD

Matrix: Solid

Analysis Batch: 22049

Client Sample ID: H1

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | <5.00         | U                | 250         | 254.2      |               | mg/Kg |   | 100  | 90 - 110     | 6   | 20        |

Lab Sample ID: 880-12600-11 MS

Matrix: Solid

Analysis Batch: 22049

Client Sample ID: H6

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |  |  |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|--|--|
| Chloride | 31.4          |                  | 250         | 285.3     |              | mg/Kg |   | 102  | 90 - 110     |  |  |

Lab Sample ID: 880-12600-11 MSD

Matrix: Solid

Analysis Batch: 22049

Client Sample ID: H6

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 31.4          |                  | 250         | 279.8      |               | mg/Kg |   | 99   | 90 - 110     | 2   | 20        |

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## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## GC VOA

## Prep Batch: 21852

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-12600-11       | H6                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-12       | H6                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-13       | H7                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-14       | H7                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-15       | H8                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-16       | H8                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-17       | H9                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-18       | H9                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-19       | H10                    | Total/NA  | Solid  | 5035   |            |
| 880-12600-20       | H10                    | Total/NA  | Solid  | 5035   |            |
| MB 880-21852/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-21852/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-21852/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-12600-11 MS    | H6                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-11 MSD   | H6                     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 21854

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-12600-1        | H1                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-2        | H1                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-3        | H2                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-4        | H2                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-5        | H3                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-6        | H3                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-7        | H4                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-8        | H4                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-9        | H5                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-10       | H5                     | Total/NA  | Solid  | 5035   |            |
| MB 880-21854/5-B   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-21854/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-21854/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-12600-1 MS     | H1                     | Total/NA  | Solid  | 5035   |            |
| 880-12600-1 MSD    | H1                     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 22183

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-12600-1        | H1                     | Total/NA  | Solid  | 8021B  | 21854      |
| 880-12600-2        | H1                     | Total/NA  | Solid  | 8021B  | 21854      |
| 880-12600-3        | H2                     | Total/NA  | Solid  | 8021B  | 21854      |
| 880-12600-4        | H2                     | Total/NA  | Solid  | 8021B  | 21854      |
| 880-12600-5        | H3                     | Total/NA  | Solid  | 8021B  | 21854      |
| 880-12600-6        | H3                     | Total/NA  | Solid  | 8021B  | 21854      |
| 880-12600-7        | H4                     | Total/NA  | Solid  | 8021B  | 21854      |
| 880-12600-8        | H4                     | Total/NA  | Solid  | 8021B  | 21854      |
| 880-12600-9        | H5                     | Total/NA  | Solid  | 8021B  | 21854      |
| 880-12600-10       | H5                     | Total/NA  | Solid  | 8021B  | 21854      |
| MB 880-21854/5-B   | Method Blank           | Total/NA  | Solid  | 8021B  | 21854      |
| LCS 880-21854/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 21854      |
| LCSD 880-21854/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 21854      |
| 880-12600-1 MS     | H1                     | Total/NA  | Solid  | 8021B  | 21854      |
| 880-12600-1 MSD    | H1                     | Total/NA  | Solid  | 8021B  | 21854      |

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## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## GC VOA

## Analysis Batch: 22187

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-12600-11       | H6                     | Total/NA  | Solid  | 8021B  | 21852      |
| 880-12600-12       | H6                     | Total/NA  | Solid  | 8021B  | 21852      |
| 880-12600-13       | H7                     | Total/NA  | Solid  | 8021B  | 21852      |
| 880-12600-14       | H7                     | Total/NA  | Solid  | 8021B  | 21852      |
| 880-12600-15       | H8                     | Total/NA  | Solid  | 8021B  | 21852      |
| 880-12600-16       | H8                     | Total/NA  | Solid  | 8021B  | 21852      |
| 880-12600-17       | H9                     | Total/NA  | Solid  | 8021B  | 21852      |
| 880-12600-18       | H9                     | Total/NA  | Solid  | 8021B  | 21852      |
| 880-12600-19       | H10                    | Total/NA  | Solid  | 8021B  | 21852      |
| 880-12600-20       | H10                    | Total/NA  | Solid  | 8021B  | 21852      |
| MB 880-21852/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 21852      |
| LCS 880-21852/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 21852      |
| LCSD 880-21852/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 21852      |
| 880-12600-11 MS    | H6                     | Total/NA  | Solid  | 8021B  | 21852      |
| 880-12600-11 MSD   | H6                     | Total/NA  | Solid  | 8021B  | 21852      |

## Analysis Batch: 22223

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-12600-1   | H1               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-2   | H1               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-3   | H2               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-4   | H2               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-5   | H3               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-6   | H3               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-7   | H4               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-8   | H4               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-9   | H5               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-10  | H5               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-11  | H6               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-12  | H6               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-13  | H7               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-14  | H7               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-15  | H8               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-16  | H8               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-17  | H9               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-18  | H9               | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-19  | H10              | Total/NA  | Solid  | Total BTEX |            |
| 880-12600-20  | H10              | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 21917

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method      | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 880-12600-1   | H1               | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-2   | H1               | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-3   | H2               | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-4   | H2               | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-5   | H3               | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-6   | H3               | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-7   | H4               | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-8   | H4               | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Fasken Oil and Ranch

Job ID: 880-12600-1

Project/Site: Cabot Q SWD

## GC Semi VOA (Continued)

## Prep Batch: 21917 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-12600-9        | H5                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-10       | H5                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-11       | H6                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-12       | H6                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-13       | H7                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-14       | H7                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-15       | H8                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-16       | H8                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-17       | H9                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-18       | H9                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-19       | H10                    | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-20       | H10                    | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-21917/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-21917/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-21917/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-1 MS     | H1                     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12600-1 MSD    | H1                     | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21985

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-12600-1        | H1                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-2        | H1                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-3        | H2                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-4        | H2                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-5        | H3                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-6        | H3                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-7        | H4                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-8        | H4                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-9        | H5                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-10       | H5                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-11       | H6                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-12       | H6                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-13       | H7                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-14       | H7                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-15       | H8                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-16       | H8                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-17       | H9                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-18       | H9                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-19       | H10                    | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-20       | H10                    | Total/NA  | Solid  | 8015B NM | 21917      |
| MB 880-21917/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 21917      |
| LCS 880-21917/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 21917      |
| LCSD 880-21917/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-1 MS     | H1                     | Total/NA  | Solid  | 8015B NM | 21917      |
| 880-12600-1 MSD    | H1                     | Total/NA  | Solid  | 8015B NM | 21917      |

## Analysis Batch: 22121

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-12600-1   | H1               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-2   | H1               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-3   | H2               | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## GC Semi VOA (Continued)

## Analysis Batch: 22121 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-12600-4   | H2               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-5   | H3               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-6   | H3               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-7   | H4               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-8   | H4               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-9   | H5               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-10  | H5               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-11  | H6               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-12  | H6               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-13  | H7               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-14  | H7               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-15  | H8               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-16  | H8               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-17  | H9               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-18  | H9               | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-19  | H10              | Total/NA  | Solid  | 8015 NM |            |
| 880-12600-20  | H10              | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 21923

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-12600-1        | H1                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-2        | H1                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-3        | H2                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-4        | H2                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-5        | H3                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-6        | H3                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-7        | H4                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-8        | H4                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-9        | H5                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-10       | H5                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-11       | H6                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-12       | H6                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-13       | H7                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-14       | H7                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-15       | H8                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-16       | H8                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-17       | H9                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-18       | H9                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-19       | H10                    | Soluble   | Solid  | DI Leach |            |
| 880-12600-20       | H10                    | Soluble   | Solid  | DI Leach |            |
| MB 880-21923/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-21923/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-21923/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-12600-1 MS     | H1                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-1 MSD    | H1                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-11 MS    | H6                     | Soluble   | Solid  | DI Leach |            |
| 880-12600-11 MSD   | H6                     | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## HPLC/IC

## Analysis Batch: 22049

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-12600-1        | H1                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-2        | H1                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-3        | H2                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-4        | H2                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-5        | H3                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-6        | H3                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-7        | H4                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-8        | H4                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-9        | H5                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-10       | H5                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-11       | H6                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-12       | H6                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-13       | H7                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-14       | H7                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-15       | H8                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-16       | H8                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-17       | H9                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-18       | H9                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-19       | H10                    | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-20       | H10                    | Soluble   | Solid  | 300.0  | 21923      |
| MB 880-21923/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 21923      |
| LCS 880-21923/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 21923      |
| LCSD 880-21923/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-1 MS     | H1                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-1 MSD    | H1                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-11 MS    | H6                     | Soluble   | Solid  | 300.0  | 21923      |
| 880-12600-11 MSD   | H6                     | Soluble   | Solid  | 300.0  | 21923      |

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## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

Client Sample ID: H1

Lab Sample ID: 880-12600-1

Date Collected: 03/18/22 09:05

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 21854        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22183        | 03/23/22 12:21       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 12:18       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 20:25       | CH      | XEN MID |

Client Sample ID: H1

Lab Sample ID: 880-12600-2

Date Collected: 03/18/22 09:10

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 21854        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22183        | 03/23/22 12:41       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 13:22       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 20:52       | CH      | XEN MID |

Client Sample ID: H2

Lab Sample ID: 880-12600-3

Date Collected: 03/18/22 09:15

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 21854        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22183        | 03/23/22 13:02       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 13:44       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 21:01       | CH      | XEN MID |

Client Sample ID: H2

Lab Sample ID: 880-12600-4

Date Collected: 03/18/22 09:20

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 21854        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22183        | 03/23/22 13:22       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H2

Lab Sample ID: 880-12600-4

Date Collected: 03/18/22 09:20

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 14:05       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 22049        | 03/28/22 21:10       | CH      | XEN MID |

## Client Sample ID: H3

Lab Sample ID: 880-12600-5

Date Collected: 03/18/22 09:25

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 21854        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22183        | 03/23/22 13:43       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 14:26       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 21:19       | CH      | XEN MID |

## Client Sample ID: H3

Lab Sample ID: 880-12600-6

Date Collected: 03/18/22 09:30

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 21854        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22183        | 03/23/22 14:03       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 14:47       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 21:45       | CH      | XEN MID |

## Client Sample ID: H4

Lab Sample ID: 880-12600-7

Date Collected: 03/18/22 09:35

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 21854        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22183        | 03/23/22 14:24       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 15:08       | AJ      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H4

Lab Sample ID: 880-12600-7

Date Collected: 03/18/22 09:35

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 21:54       | CH      | XEN MID |

## Client Sample ID: H4

Lab Sample ID: 880-12600-8

Date Collected: 03/18/22 09:40

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 21854        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22183        | 03/23/22 14:44       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 15:29       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 22:03       | CH      | XEN MID |

## Client Sample ID: H5

Lab Sample ID: 880-12600-9

Date Collected: 03/18/22 09:45

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 21854        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22183        | 03/23/22 15:05       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 15:50       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 22:12       | CH      | XEN MID |

## Client Sample ID: H5

Lab Sample ID: 880-12600-10

Date Collected: 03/18/22 09:50

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 21854        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22183        | 03/23/22 15:25       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 16:12       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 22:21       | CH      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H6

## Lab Sample ID: 880-12600-11

Date Collected: 03/18/22 10:05

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 21852        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22187        | 03/23/22 13:18       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 16:54       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 22:30       | CH      | XEN MID |

## Client Sample ID: H6

## Lab Sample ID: 880-12600-12

Date Collected: 03/18/22 10:10

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 21852        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22187        | 03/23/22 13:39       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 17:15       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 22:56       | CH      | XEN MID |

## Client Sample ID: H7

## Lab Sample ID: 880-12600-13

Date Collected: 03/18/22 10:15

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 21852        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22187        | 03/23/22 13:59       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 17:36       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 23:05       | CH      | XEN MID |

## Client Sample ID: H7

## Lab Sample ID: 880-12600-14

Date Collected: 03/18/22 10:20

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 21852        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22187        | 03/23/22 14:19       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H7

Lab Sample ID: 880-12600-14

Date Collected: 03/18/22 10:20

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 17:56       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 23:32       | CH      | XEN MID |

## Client Sample ID: H8

Lab Sample ID: 880-12600-15

Date Collected: 03/18/22 10:25

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 21852        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22187        | 03/23/22 14:40       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 18:17       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 23:41       | CH      | XEN MID |

## Client Sample ID: H8

Lab Sample ID: 880-12600-16

Date Collected: 03/18/22 10:30

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 21852        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22187        | 03/23/22 15:00       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 18:38       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 23:49       | CH      | XEN MID |

## Client Sample ID: H9

Lab Sample ID: 880-12600-17

Date Collected: 03/18/22 10:35

Matrix: Solid

Date Received: 03/18/22 15:12

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 21852        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22187        | 03/23/22 18:12       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 18:59       | AJ      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

## Client Sample ID: H9

Date Collected: 03/18/22 10:35

Date Received: 03/18/22 15:12

## Lab Sample ID: 880-12600-17

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/28/22 23:58       | CH      | XEN MID |

## Client Sample ID: H9

Date Collected: 03/18/22 10:40

Date Received: 03/18/22 15:12

## Lab Sample ID: 880-12600-18

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 21852        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22187        | 03/23/22 18:32       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 19:20       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/29/22 00:07       | CH      | XEN MID |

## Client Sample ID: H10

Date Collected: 03/18/22 10:45

Date Received: 03/18/22 15:12

## Lab Sample ID: 880-12600-19

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 21852        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22187        | 03/23/22 18:53       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 19:40       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/29/22 00:16       | CH      | XEN MID |

## Client Sample ID: H10

Date Collected: 03/18/22 10:50

Date Received: 03/18/22 15:12

## Lab Sample ID: 880-12600-20

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 21852        | 03/23/22 07:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22187        | 03/23/22 19:13       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22223        | 03/23/22 14:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22121        | 03/22/22 09:23       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 21917        | 03/18/22 15:35       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 21985        | 03/21/22 20:01       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 21923        | 03/18/22 16:41       | SC      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 22049        | 03/29/22 00:25       | CH      | XEN MID |

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-21-22      | 06-30-22        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte    |
|-----------------|-------------|--------|------------|
| 8015 NM         |             | Solid  | Total TPH  |
| Total BTEX      |             | Solid  | Total BTEX |

## Method Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

## Sample Summary

Client: Fasken Oil and Ranch  
Project/Site: Cabot Q SWD

Job ID: 880-12600-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-12600-1   | H1               | Solid  | 03/18/22 09:05 | 03/18/22 15:12 | 0-6"  |
| 880-12600-2   | H1               | Solid  | 03/18/22 09:10 | 03/18/22 15:12 | 1'    |
| 880-12600-3   | H2               | Solid  | 03/18/22 09:15 | 03/18/22 15:12 | 0-6"  |
| 880-12600-4   | H2               | Solid  | 03/18/22 09:20 | 03/18/22 15:12 | 1'    |
| 880-12600-5   | H3               | Solid  | 03/18/22 09:25 | 03/18/22 15:12 | 0-6"  |
| 880-12600-6   | H3               | Solid  | 03/18/22 09:30 | 03/18/22 15:12 | 1'    |
| 880-12600-7   | H4               | Solid  | 03/18/22 09:35 | 03/18/22 15:12 | 0-6"  |
| 880-12600-8   | H4               | Solid  | 03/18/22 09:40 | 03/18/22 15:12 | 1'    |
| 880-12600-9   | H5               | Solid  | 03/18/22 09:45 | 03/18/22 15:12 | 0-6"  |
| 880-12600-10  | H5               | Solid  | 03/18/22 09:50 | 03/18/22 15:12 | 1'    |
| 880-12600-11  | H6               | Solid  | 03/18/22 10:05 | 03/18/22 15:12 | 0-6"  |
| 880-12600-12  | H6               | Solid  | 03/18/22 10:10 | 03/18/22 15:12 | 1'    |
| 880-12600-13  | H7               | Solid  | 03/18/22 10:15 | 03/18/22 15:12 | 0-6"  |
| 880-12600-14  | H7               | Solid  | 03/18/22 10:20 | 03/18/22 15:12 | 1'    |
| 880-12600-15  | H8               | Solid  | 03/18/22 10:25 | 03/18/22 15:12 | 0-6"  |
| 880-12600-16  | H8               | Solid  | 03/18/22 10:30 | 03/18/22 15:12 | 1'    |
| 880-12600-17  | H9               | Solid  | 03/18/22 10:35 | 03/18/22 15:12 | 0-6"  |
| 880-12600-18  | H9               | Solid  | 03/18/22 10:40 | 03/18/22 15:12 | 1'    |
| 880-12600-19  | H10              | Solid  | 03/18/22 10:45 | 03/18/22 15:12 | 0-6"  |
| 880-12600-20  | H10              | Solid  | 03/18/22 10:50 | 03/18/22 15:12 | 1'    |



ENVIRONMENTAL TESTING  
XENCO

Houston TX (281) 240-4200 Dallas TX (214) 902-0300  
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El Paso TX (915) 565-3443 Lubbock, TX (806) 794-1296  
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 12600

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|                 |                        |                        |                                   |
|-----------------|------------------------|------------------------|-----------------------------------|
| Project Manager | Grant Huckabay         | Bill to (if different) |                                   |
| Company Name    | Fasken Oil and Ranch   | Company Name           |                                   |
| Address         | 6101 Holiday Hill Road | Address                |                                   |
| City, State ZIP | Midland TX 79707       | City, State ZIP        |                                   |
| Phone           | 432-687-1777           | Email                  | granth@for.com / addisong@for.com |

|                     |                                                                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order Comments |                                                                                                                                                                       |
| Program             | UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>    |
| State of Project    |                                                                                                                                                                       |
| Reporting Level     | Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Deliverables        | EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other                                                                                                     |

|                         |                       |                                                              |                                                                           |                     |     |                  |                                                                 |                     |  |  |  |  |  |  |  |                    |  |  |  |  |  |
|-------------------------|-----------------------|--------------------------------------------------------------|---------------------------------------------------------------------------|---------------------|-----|------------------|-----------------------------------------------------------------|---------------------|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|
| Project Name            | LABOT Q SMD           | Turn Around                                                  | <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush | Pres Code           |     | ANALYSIS REQUEST |                                                                 |                     |  |  |  |  |  |  |  | Preservative Codes |  |  |  |  |  |
| Project Number          |                       | Due Date                                                     | 3/23/22                                                                   |                     |     | None NO          | DI Water                                                        | H <sub>2</sub> O    |  |  |  |  |  |  |  |                    |  |  |  |  |  |
| Sampler's Name          | Addison Guelker       | TAT starts the day received by the lab if received by 4:30pm |                                                                           |                     |     |                  | Cool Cool                                                       | MeOH Me             |  |  |  |  |  |  |  |                    |  |  |  |  |  |
| PO #                    |                       |                                                              |                                                                           |                     |     |                  | HCL HC                                                          | HNO <sub>3</sub> HN |  |  |  |  |  |  |  |                    |  |  |  |  |  |
| SAMPLE RECEIPT          | Temp Blank            | Yes                                                          | No                                                                        | Wet Ice             | Yes | No               | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>                   | NaOH Na             |  |  |  |  |  |  |  |                    |  |  |  |  |  |
| Samples Received Intact | Yes                   | No                                                           | N/A                                                                       | Thermometer ID      |     |                  | H <sub>3</sub> PO <sub>4</sub> HP                               |                     |  |  |  |  |  |  |  |                    |  |  |  |  |  |
| Cooler Custody Seals    | Yes                   | No                                                           | N/A                                                                       | Correction Factor   |     |                  | NaHSO <sub>4</sub> NABIS                                        |                     |  |  |  |  |  |  |  |                    |  |  |  |  |  |
| Sample Custody Seals    | Yes                   | No                                                           | N/A                                                                       | Temperature Reading |     |                  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> |                     |  |  |  |  |  |  |  |                    |  |  |  |  |  |
| Total Containers        | Corrected Temperature |                                                              |                                                                           |                     |     |                  | Zn Acetate+NaOH Zn                                              |                     |  |  |  |  |  |  |  |                    |  |  |  |  |  |
|                         |                       |                                                              |                                                                           |                     |     |                  | NaOH+Ascorbic Acid SAPC                                         |                     |  |  |  |  |  |  |  |                    |  |  |  |  |  |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | EC | TPH 8015M | BTEX 8021B | Sample Comments |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|----|-----------|------------|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|
| H1                    | S      | 3/18/22      | 9:05         | 0-6"  | G         | 1         | X  | X         | X          |                 |  |  |  |  |  |  |  |  |  |  |  |  |
| H1                    | S      | 3/18/22      | 9:10         | 1'    | G         | 1         | X  | X         | X          |                 |  |  |  |  |  |  |  |  |  |  |  |  |
| H2                    | S      | 3/18/22      | 9:15         | 0-6"  |           |           |    | X         | X          |                 |  |  |  |  |  |  |  |  |  |  |  |  |
| H2                    | S      |              | 9:20         | 1'    |           |           |    |           |            |                 |  |  |  |  |  |  |  |  |  |  |  |  |
| H3                    | S      |              | 9:25         | 0-6"  |           |           |    |           |            |                 |  |  |  |  |  |  |  |  |  |  |  |  |
| H3                    | S      |              | 9:30         | 1'    |           |           |    |           |            |                 |  |  |  |  |  |  |  |  |  |  |  |  |
| H4                    | S      |              | 9:35         | 0-6"  |           |           |    |           |            |                 |  |  |  |  |  |  |  |  |  |  |  |  |
| H4                    | S      |              | 9:40         | 1'    |           |           |    |           |            |                 |  |  |  |  |  |  |  |  |  |  |  |  |
| H4                    | S      |              | 9:45         | 0-6"  |           |           |    |           |            |                 |  |  |  |  |  |  |  |  |  |  |  |  |
| H5                    | S      |              | 9:50         | 1'    |           |           |    |           |            |                 |  |  |  |  |  |  |  |  |  |  |  |  |
| H5                    | S      |              |              |       |           |           |    |           |            |                 |  |  |  |  |  |  |  |  |  |  |  |  |



880-12600 Chain of Custody

|                                              |               |                  |          |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |            |          |                  |    |    |    |    |   |   |    |  |  |  |
|----------------------------------------------|---------------|------------------|----------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------|----------|------------------|----|----|----|----|---|---|----|--|--|--|
| Total 200.7 / 6010                           | 200.8 / 6020: | 8RCRA 13PPM      | Texas 11 | Al    | Sb | As | Ba | Be | B  | Cd | Ca | Cr | Co | Cu | Pb | Mn | Mg | Mn | Mo | Ni | K  | Se         | Ag       | SiO <sub>2</sub> | Na | Sr | Ti | Sn | U | V | Zn |  |  |  |
| Circle Method(s) and Metal(s) to be analyzed |               | TCLP / SPLP 6010 |          | 8RCRA | Sb | As | Ba | Be | Cd | Cr | Co | Cu | Pb | Mn | Mo | Ni | Se | Ag | Ti | U  | Hg | 1631 / 245 | 1 / 7470 | 1 / 7471         |    |    |    |    |   |   |    |  |  |  |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

|                             |                         |           |                             |                         |           |
|-----------------------------|-------------------------|-----------|-----------------------------|-------------------------|-----------|
| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|                             |                         | 3/18/22   |                             |                         |           |
|                             |                         | 15:12     |                             |                         |           |



ENVIRONMENTAL TESTING  
X-100

## Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300  
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334  
El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs NM (575) 392-7550 Carlsbad NM (575) 968-3199

Work Order No: 12600

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|                 |                        |                        |                                 |
|-----------------|------------------------|------------------------|---------------------------------|
| Project Manager | Grant Huckabay         | Bill to (if different) |                                 |
| Company Name    | Fasken Oil and Ranch   | Company Name           |                                 |
| Address         | 6101 Holiday Hill Road | Address                |                                 |
| City, State ZIP | Midland TX 79707       | City, State ZIP        |                                 |
| Phone           | 432-687-1777           | Email                  | grant@for.com / addison@for.com |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Work Order Comments</b><br>Program UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/><br>State of Project<br>Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/><br>Deliverables EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                  |                          |                                                                     |                                                              |                                                                     |            |                  |  |  |  |  |  |  |  |  |  |                                                                 |                     |
|------------------|--------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------|------------|------------------|--|--|--|--|--|--|--|--|--|-----------------------------------------------------------------|---------------------|
| Project Name     | CARBOT Q SWD             |                                                                     | Turn Around                                                  |                                                                     | Pres. Code | ANALYSIS REQUEST |  |  |  |  |  |  |  |  |  | Preservative Codes                                              |                     |
| Project Number   |                          |                                                                     | <input type="checkbox"/> Routine                             | <input checked="" type="checkbox"/> Rush                            |            |                  |  |  |  |  |  |  |  |  |  |                                                                 | None NO             |
| Project Location |                          |                                                                     | Due Date 3/23/22                                             |                                                                     |            |                  |  |  |  |  |  |  |  |  |  | Cool Cool                                                       | MeOH Me             |
| Sampler's Name   | Addison Guelker          |                                                                     | TAT starts the day received by the lab if received by 4:30pm |                                                                     |            |                  |  |  |  |  |  |  |  |  |  | HCL HC                                                          | HNO <sub>3</sub> HN |
| PO #             |                          |                                                                     |                                                              |                                                                     |            |                  |  |  |  |  |  |  |  |  |  | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>                   | NaOH Na             |
| SAMPLE RECEIPT   | Temp Blank               | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice                                                      | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |            |                  |  |  |  |  |  |  |  |  |  | H <sub>3</sub> PO <sub>4</sub> HP                               |                     |
|                  | Samples Received Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID                                               |                                                                     |            |                  |  |  |  |  |  |  |  |  |  | NaHSO <sub>4</sub> NABIS                                        |                     |
|                  | Cooler Custody Seals     | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Correction Factor                                            |                                                                     |            |                  |  |  |  |  |  |  |  |  |  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> |                     |
|                  | Sample Custody Seals     | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Temperature Reading                                          |                                                                     |            |                  |  |  |  |  |  |  |  |  |  | Zn Acetate+NaOH Zn                                              |                     |
| Total Containers |                          | Corrected Temperature                                               | S.1                                                          |                                                                     |            |                  |  |  |  |  |  |  |  |  |  | NaOH+Ascorbic Acid SAPC                                         |                     |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Cont | # of | EC | TPH 8015M | BTEX 8021B |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--------|--------------|--------------|-------|------------|------|----|-----------|------------|--|--|--|--|--|--|--|--|--|--|
| H10                   | S      | 3/18/22      | 10:05        | 0-6"  | G          | 1    | X  | X         | X          |  |  |  |  |  |  |  |  |  |  |
| H16                   | S      | 3/18/22      | 10:10        | 1'    | G          | 1    | X  | X         | X          |  |  |  |  |  |  |  |  |  |  |
| H7                    | S      | 3/18/22      | 10:15        | 6-6"  | G          | 1    | X  | X         | X          |  |  |  |  |  |  |  |  |  |  |
| H7                    | S      | 3/18/22      | 10:20        | 1'    | G          | 1    | X  | X         | X          |  |  |  |  |  |  |  |  |  |  |
| H8                    | S      |              |              |       |            |      |    |           |            |  |  |  |  |  |  |  |  |  |  |
| H8                    | S      |              |              |       |            |      |    |           |            |  |  |  |  |  |  |  |  |  |  |
| H8                    | S      |              |              |       |            |      |    |           |            |  |  |  |  |  |  |  |  |  |  |
| H9                    | S      |              |              |       |            |      |    |           |            |  |  |  |  |  |  |  |  |  |  |
| H9                    | S      |              |              |       |            |      |    |           |            |  |  |  |  |  |  |  |  |  |  |
| H9                    | S      |              |              |       |            |      |    |           |            |  |  |  |  |  |  |  |  |  |  |
| H10                   | S      |              |              |       |            |      |    |           |            |  |  |  |  |  |  |  |  |  |  |
| H10                   | S      |              |              |       |            |      |    |           |            |  |  |  |  |  |  |  |  |  |  |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

|                             |                         |           |                             |                         |           |
|-----------------------------|-------------------------|-----------|-----------------------------|-------------------------|-----------|
| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
| <i>[Signature]</i>          | <i>[Signature]</i>      | 3/18/22   |                             |                         |           |
|                             |                         | 15:12     |                             |                         |           |

## Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-12600-1

Login Number: 12600

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 108632

**CONDITIONS**

|                                                                                  |                                                           |
|----------------------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>FASKEN OIL & RANCH LTD<br>6101 Holiday Hill Rd<br>Midland, TX 79707 | OGRID:<br>151416                                          |
|                                                                                  | Action Number:<br>108632                                  |
|                                                                                  | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                        | Condition Date |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| jnobui     | Remediation Plan Approved with Conditions. Please excavate down to rock and please take photos of the rock bottom. Please document locations of photos on a site plan of excavation and rock bottoms. Please ensure your sidewall samples meet the most stringent criteria (600 mg/kg chloride, 100 mg/kg TPH). Variance: Composite confirmation samples will be collected from areas representing no more than three hundred (300) square feet. | 8/22/2022      |