Received by OCD: 7/10/2020 10:12:15 AM

<u>District I</u> 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

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

| Page 1 of 109 |
|---|
| Form C-141 |
| Revised August 24, 2018 |
| Submit to appropriate OCD District office |

| Incident ID | |
|----------------|--|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party: Fasken Oil and Ranch, Ltd OC | | OGRID: 1 | 51416 | | |
|---|--|--|---|-------------------------------------|---|
| Contact Name: Aaron Pachlhofer Contact | | Contact Te | Telephone: 432-687-1777 | | |
| Contact email: aaronp@forl.com Inci- | | Incident # | NCS2003132855 | | |
| Contact maili | ing address: | 6101 Holiday Hil | l Road, Midland, | TX 79707 | |
| | | | Location | of Release So | ource |
| Latitude 33 | .040968° | | (NAD 83 in dec | Longitude _ imal degrees to 5 decim | -103.173078° nal places) |
| Site Name De | nton No. 5 S | SWD Battery | | Site Type: | SWD Battery |
| Date Release | Discovered | 11/29/19 | | API# 30-02 | 25-05270 |
| Unit Letter | Section | Township | Range | Coun | nty |
| N | 2 | 15S | 37E | Lea | |
| Crude Oil Produced | | Volume Release Volume Release | l that apply and attach d (bbls) d (bbls) 850 | | justification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls) 840 |
| | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | | (/ | X Yes No | |
| Condensa | te | Volume Released (bbls) | | | Volume Recovered (bbls) |
| ☐ Natural G | as | Volume Released (Mcf) | | | Volume Recovered (Mcf) |
| Other (des | scribe) | Volume/Weight Released (provide units) | | e units) | Volume/Weight Recovered (provide units) |
| Cause of Release: Leak was inside of firewall at underground bypass 2"steel line that ties into gun barrel and to main SWD | | | | | |
| | | ewall around bat ck up water from | | shut in immediate | ely when discovered by relief pumper. 3 vacuum |
| Release volume is similar to the release due to standing water from heavy rainfall, Fasken field personnel reported that the area had received approximately 1 inch of rain the previous day. The battery has a high firewall around it and lies within a slight depression. There is no drainage from the battery area, no pasture was affected. | | | | | |

Received by OCD: 7/10/2020 10:12:15 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

| Page | 2 2 0 | f1 | 09 |
|------|-------|----|----|
| | | | |

| Incident ID | |
|----------------|--|
| District RP | |
| Facility ID | |
| Application ID | |

| Was this a major | If YES, for what reason(s) does the responsible party consider this a major release? |
|--------------------------------|--|
| release as defined by | if TES, for what reason(s) does the responsible party consider this a major release: |
| 19.15.29.7(A) NMAC? | The release is a major release as defined by NMAC. |
| XYes No | |
| A res No | |
| | |
| TOYED ' 1' | (|
| If YES, was immediate no | otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? |
| Notice was given via telep | phone by Aaron Pachlhofer to Fortner at 3:30 MST on 11/29/19. |
| | Initial Response |
| The responsible p | party must undertake the following actions immediately unless they could create a safety hazard that would result in injury |
| X The source of the rele | ease has been stopped. |
| | s been secured to protect human health and the environment. |
| | eve been contained via the use of berms or dikes, absorbent pads, or other containment devices. |
| | ecoverable materials have been removed and managed appropriately. |
| <u> </u> | d above have not been undertaken, explain why: |
| if all the actions described | a doove have <u>not</u> been undertaken, explain why. |
| | |
| | |
| | |
| | |
| | |
| | AC the responsible party may commence remediation immediately after discovery of a release. If remediation |
| | a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. |
| | |
| | rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger |
| public health or the environm | nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have |
| | ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws |
| and/or regulations. | i a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws |
| D. 1. 137 | |
| Printed Name: <u>Aaron Pac</u> | <u>Chlhofer</u> Title: <u>Environmental Coordinator</u> |
| Signature: | Date: <u>1/31/2020</u> |
| email: aaronp@forl.com | Telephone: 432-687-1777 |
| | |
| OCD Only | |
| Received by: | Date: |

Received by OCD: 7/10/2020 10:12:15 AM Form C-141 State of New Mexico Page 3 Oil Conservation Division

| | Page 3 of 109 |
|----------------|---------------|
| Incident ID | |
| District RP | |
| 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? | Approx. 70 (ft bgs) |
|--|-----------------------|
| Did this release impact groundwater or surface water? | ☐ Yes 🏻 No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐Yes X 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)? | ☐Yes X No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐Yes 🏻 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? | ☐Yes 🏻 No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐Yes 🏻 No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐Yes 🏻 No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐Yes 🏻 No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐Yes 🏻 No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐Yes 🏻 No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐Yes 🏻 No |
| Did the release impact areas not on an exploration, development, production, or storage site? | ☐ Yes 🏻 No |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | tical extents of soil |
| 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 well 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 | s. |

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.

Received by OCD: 7/10/2020 10:12:15 AM Form C-141 State of New Mexico
Page 4 Oil Conservation Division

| | Page 4 of 10 |
|-------------|--------------|
| Incident ID | |
| District RP | |
| 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: <u>Aaron Pachlhofer</u> | Title: Environmental Coordinator |
|---------------------------------------|----------------------------------|
| Signature: | Date: <u>1/31/2020</u> |
| email: <u>aaronp@forl.com</u> | Telephone: <u>432-687-1777</u> |
| OCD Only | |
| | Data |
| Received by: | Date: |

Received by OCD: 7/10/2020 10:12:15 AM Form C-141 State of New Mexico Page 5 Oil Conservation Division

| | Page 5 of 10 | 99 |
|----------------|--------------|----|
| Incident ID | | |
| District RP | | |
| 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: <u>Aaron Pachlhofer</u> Title: <u>Environmental Coordinator</u> |
| Signature: Date: |
| email: aaronp@forl.com Telephone: 432-687-1777 |
| OCD Only |
| Received by:Date: |
| Approved |
| Signature: Date: |

Form C-141 Page 6

X

State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

| Incident ID | |
|----------------|--|
| District RP | |
| Facility ID | |
| Application ID | |

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

| X office | Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District must be notified 2 days prior to liner inspection) | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| x | Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling | | | | | | | | |
| X | Description of remediation activities | | | | | | | | |
| H | | | | | | | | | |
| and regumay end their op- health of any other vegetate NMAC Printed | certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules plations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which langer public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should crations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human reference environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with the refederal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and rethe impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 including notification to the OCD when reclamation and re-vegetation are complete. Name: Aaron Pachlhofer Title: Environmental Coordinator Telephone: 432-687-1777 Telephone: 432-687-1777 | | | | | | | | |
| OCD O | <u>nly</u> | | | | | | | | |
| Receive | d by: Date: | | | | | | | | |
| remedia | Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. | | | | | | | | |
| Closure | Approved by:Date: | | | | | | | | |
| Printed 1 | Name:Title: | | | | | | | | |
| | | | | | | | | | |



6101 Holiday Hill Road Midland, TX 79707 (432) 687-1777 (432) 687-1570 (FAX)

March 13, 2020

Robert Hamlet Environmental Specialist Oil Conservation Division, District 2 811 South Francis Street Artesia, New Mexico 88210

Site Closure request: Incident #NCS20033132855

Mr. Hamlet,

On November 29,2019 a spill occurred at the Fasken Oil and Ranch (Fasken) Denton No.5 SWD battery when an underground 2-inch steel bypass line failed. The battery is located 33.040968°, -103.173078°. During the spill 850 barrels of produced water was released, and no crude oil was released. 840 barrels of produced water was recovered according to Fasken operations personnel. The large volume recovered was because the ground was already saturated due to heavy rain the day before, preventing the infiltration of the spilled produced water. The spill was confined to the firewall of the battery pad. No pasture was affected. Please refer to the site plan for the spill area as collected by GPS.

Potential Receptors

According to the New Mexico State Engineer's Office, there many water wells within 1/2 mile of the SWD battery. The closest and most recently gauged wells belong to Plains All American Pipeline, approximately 0.33 mile away at 33.038624°, -103.168008°. No gauging information is available from the from the State Engineers Office, but Camille Bryant of Plains All American Pipeline has stated that the depth to water in all wells in Section 2, T15S, R37E is 70 to 75 feet below ground surface. A copy of her email is included as an attachment. The data are consistent with Fasken monitoring wells approximately 1.5 mile to the southeast. These data are available upon request of the OCD.

Other potential receptors: There is no nearby surface water. There are no homes or occupied structures within 1 mile of the release. There are no other potential receptors such as a lakebed, sinkhole, playa lake, continually flowing watercourse, spring, fresh water well, or subsurface mine that have been identified within the distances specified on form C-141.

According to NMAC 19.15.29.12, Table 1, the chloride limit is 10,000 mg/kg

Sample Collection and Results

Following the initial spill response, preliminary samples were collected from location S-1 on December 8, 2019 at the surface, 1 foot and 2 feet. The result of these samples showed that the surface was affected over 10,000 mg/kg, and the deeper samples contained very low chlorides concentrations. December 17, 2019 samples collected from two additional locations S-2 and S-3, from the surface and 1 foot. The

results of the samples were similar to the samples collected from S-1: high chlorides at the surface, and low chlorides at 1 foot. The results of the three sample locations indicated that collecting samples from the surface and 1 foot would delineate the spill area to the limit of 10,000 mg/kg. A request was made to Robert Hamlet of NMOCD-Artesia to reduce the number of samples. Fasken was directed by Mr. Hamlet to collect no less than 35 sample locations would be required by the NMOCD. On January 28, 2020, the remaining samples were collected at locations S-4 through S-36. All locations had surface and 1 foot samples collected for chlorides laboratory analysis. BTEX and TPH were also requested at four sample locations: S-26, S-29, S-32, and S-34. Laboratory result showed that no 1-foot samples contained chlorides above the 10,000 mg/kg limit. Twelve surface sample contained chlorides above the limit: S-1, S-4, S-8, S-10, S-14, S-15, S-16, S-18, S-21, S-24, S-26, and S-29. Over limit chlorides results ranged from 10,700 mg/kg to 19,700 mg/kg chloride. No BTEX was detected in any sample above the method detection limit, and TPH was detected in very low concentrations in six of the eight sample locations where it was requested for laboratory analysis. The highest TPH result was 750 mg/kg. Please refer to the analytical summary tables for a summary of all laboratory results and the attached sight plan for sample locations.

Removal of Pad Material and Confirmation Sampling

Following the evaluation of laboratory results, all sample areas (noted above) over 10,000 mg/kg were excavated. Fasken personnel directed a backhoe to remove a minimum of six inches of material from the twelve sample locations above the OCD limit. Each sample location was marked to ensure that the entire area represented by the sample was excavated. Please refer to the Excavation site plan for all areas excavated.

Following excavation, a confirmation sample was collected from each sample location to ensure that no chlorides above 10,000 mg/kg remained. Laboratory results show that the confirmation sample range from 80.6 mg/kg to 4010 mg/kg.

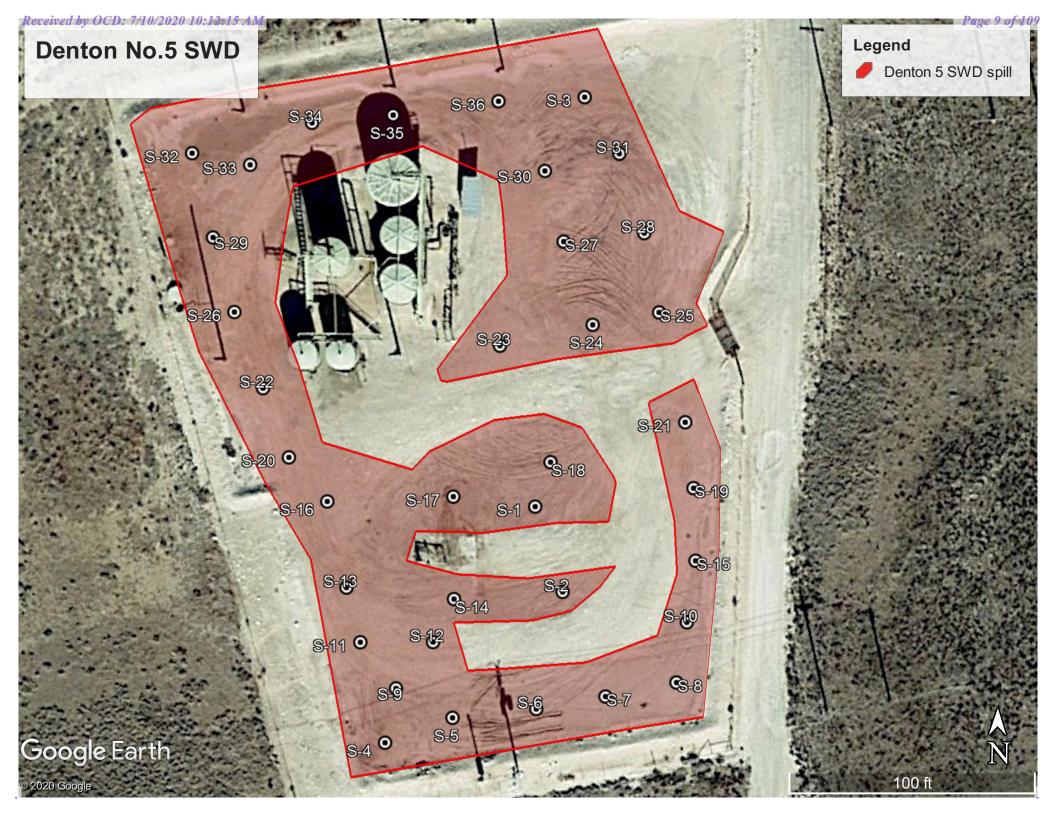
RECCOMENDATION

Fasken recommends closing this release. All concentrations are below the Table 1 limits for groundwater 51 to 100 feet below ground surface.

If there are any questions or comments, please do not hesitate to contact Aaron Pachlhofer at the letterhead address or 432-687-1777 or aaronp@forl.com.

Thank You,

Aaron Pachlhofer, P.G. Environmental Coordinator







Denton No. 5 SWD Analyitcal Sumary Table - Assessment

| Date | Location | Depth | Cl- | Benzene | Toluene | Ethylbensene | Xylene | TPH |
|------------|----------|---------|-------|---------|---------|--------------|--------|-----|
| 12/8/2019 | S-1 | Surface | 15700 | | | | | |
| 12/8/2019 | S-1 | 1' | 290 | | | | | |
| 12/8/2019 | S-1 | 2' | 28.5 | | | | | |
| 12/17/2019 | S-2 | Surface | 9680 | | | | | |
| 12/17/2019 | S-2 | 1' | 3370 | | | | | |
| 12/17/2019 | S-3 | Surface | 9560 | | | | | |
| 12/17/2019 | S-3 | 1' | 185 | | | | | |
| 1/28/2020 | S-4 | Surface | 10700 | | | | | |
| 1/28/2020 | S-4 | 1' | 265 | | | | | |
| 1/28/2020 | S-5 | Surface | 5310 | | | | | |
| 1/28/2020 | S-5 | 1' | 115 | | | | | |
| 1/28/2020 | S-6 | Surface | 3590 | | | | | |
| 1/28/2020 | S-6 | 1' | 144 | | | | | |
| 1/28/2020 | S-7 | Surface | 5690 | | | | | |
| 1/28/2020 | S-7 | 1' | 232 | | | | | |
| 1/28/2020 | S-8 | Surface | 15400 | | | | | |
| 1/28/2020 | S-8 | 1' | 219 | | | | | |
| 1/28/2020 | S-9 | Surface | 1270 | | | | | |
| 1/28/2020 | S-9 | 1' | 81.3 | | | | | |
| 1/28/2020 | | Surface | 13000 | | | | | |
| 1/28/2020 | S-10 | 1' | 130 | | | | | |
| 1/28/2020 | S-11 | Surface | 1630 | | | | | |
| 1/28/2020 | S-11 | 1' | 66.6 | | | | | |
| 1/28/2020 | S-12 | Surface | 7080 | | | | | |
| 1/28/2020 | S-12 | 1' | 377 | | | | | |
| 1/28/2020 | S-13 | 1' | 8330 | | | | | |
| 1/28/2020 | | Surface | 454 | | | | | |
| 1/28/2020 | S-14 | 1' | 16300 | | | | | |
| 1/28/2020 | | Surface | 59.7 | | | | | |
| 1/28/2020 | S-15 | 1' | 12400 | | | | | |
| 1/28/2020 | | Surface | 408 | | | | | |
| 1/28/2020 | | Surface | 19700 | | | | | |
| 1/28/2020 | | 1' | 131 | | | | | |
| 1/28/2020 | | Surface | 855 | | | | | |
| 1/28/2020 | S-17 | 1' | 80 | | | | | |
| 1/28/2020 | | Surface | 18900 | | | | | |
| 1/28/2020 | | 1' | 503 | | | | | |
| 1/28/2020 | | Surface | 7900 | | | | | |
| 1/28/2020 | | 1' | 65.5 | | | | | |
| 1/28/2020 | S-20 | Surface | 2280 | | | | | |
| 1/28/2020 | | 1' | 81.7 | | | | | |
| 1/28/2020 | | Surface | 14300 | | | | | |
| 1/28/2020 | S-21 | 1' | 301 | | | | | |

Denton No. 5 SWD Analyitcal Sumary Table - Assessment

| 1/28/2020 1/28/2020 1/28/2020 | S-22 | Surface | 469 | | | | | | |
|-------------------------------------|------|---------|-------|----|----|----|----|----|-------|
| | | | +03 | | | | | | |
| 1/28/2020 | | 1' | 507 | | | | | | |
| 1/20/2020 | S-23 | Surface | 1100 | | | | | | |
| 1/28/2020 | S-23 | 1' | 503 | | | | | | |
| 1/28/2020 | S-24 | Surface | 15900 | | | | | | |
| 1/28/2020 | S-24 | 1' | 1620 | | | | | | |
| 1/28/2020 | S-25 | Surface | 8580 | | | | | | |
| 1/28/2020 | S-25 | 1' | 288 | | | | | | |
| 1/28/2020 | S-26 | Surface | 11000 | ND | ND | ND | ND | | 305 |
| 1/28/2020 | S-26 | 1' | 1310 | ND | ND | ND | ND | | 35.7 |
| 1/28/2020 | S-27 | Surface | 7340 | | | | | | |
| 1/28/2020 | S-27 | 1' | 576 | | | | | | |
| 1/28/2020 | S-28 | Surface | 4970 | | | | | | |
| 1/28/2020 | S-28 | 1' | 599 | | | | | | |
| 1/28/2020 | S-29 | Surface | 14400 | ND | ND | ND | ND | | 207.4 |
| 1/28/2020 | S-29 | 1' | 674 | ND | ND | ND | ND | ND | |
| 1/28/2020 | S-30 | Surface | 9540 | | | | | | |
| 1/28/2020 | S-30 | 1' | 4790 | | | | | | |
| 1/28/2020 | S-31 | Surface | 8050 | | | | | | |
| 1/28/2020 | S-31 | 1' | 672 | | | | | | |
| 1/28/2020 | S-32 | Surface | 4010 | ND | ND | ND | ND | | 195.9 |
| 1/28/2020 | S-32 | 1' | 1380 | ND | ND | ND | ND | ND | |
| 1/28/2020 | S-33 | Surface | 8620 | | | | | | |
| 1/28/2020 | S-33 | 1' | 348 | | | | | | |
| 1/28/2020 | S-34 | Surface | 7470 | ND | ND | ND | ND | | 750 |
| 1/28/2020 | S-34 | 1' | 1630 | ND | ND | ND | ND | | 99.8 |
| 1/28/2020 | S-35 | Surface | 7950 | | | | | | |
| 1/28/2020 | S-35 | 1' | 1830 | | | | | | |
| 1/28/2020 | S-36 | Surface | 340 | | | | | | |
| 1/28/2020 | S-36 | 1' | 107 | | | | | | |

Denton No. 5 SWD Analyitcal Sumary Table - Post Excavation Confirmation samples

| Date | Location | Depth | CI- |
|----------|----------|-------|------|
| 3/2/2020 | S-1a | 6" | 1330 |
| 3/2/2020 | S-4a | 6" | 80.6 |
| 3/2/2020 | S-8a | 6" | 5240 |
| 3/2/2020 | S-10a | 6" | 2500 |
| 3/2/2020 | S-14a | 6" | 2380 |
| 3/2/2020 | S-15a | 6" | 2890 |
| 3/2/2020 | S-16a | 6" | 574 |
| 3/2/2020 | S-18a | 6" | 2820 |
| 3/2/2020 | S-21a | 6" | 4010 |
| 3/2/2020 | S-24a | 6" | 1630 |
| 3/2/2020 | S-26a | 6" | 1070 |
| 3/2/2020 | S-29a | 6" | 3540 |

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Aaron Pachlhofer
Fasken Oil & Ranch, Ltd.
6101 Holiday Hill Road
Midland, TX 79707

Project: Denton NO.5 SWD
Project Number: [none]
Location: Lea County, NM

Lab Order Number: 9L06001



NELAP/TCEQ # T104704516-18-9

Report Date: 12/11/19

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|----------------|------------------|
| S-1 Surface | 9L06001-01 | Soil | 12/04/19 12:00 | 12-05-2019 17:30 |
| S-1 1' | 9L06001-02 | Soil | 12/04/19 12:05 | 12-05-2019 17:30 |
| S-1 2' | 9L06001-03 | Soil | 12/04/19 12:05 | 12-05-2019 17:30 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-1 Surface 9L06001-01 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 15700 | 62.5 | mg/kg dry | 1 | P9L0701 | 12/07/19 | 12/08/19 | EPA 300.0 |
|------------|-------|------|-----------|---|---------|----------|----------|------------|
| % Moisture | 16.0 | 0.1 | % | 1 | P9L0613 | 12/06/19 | 12/06/19 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-1 1' 9L06001-02 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 290 | 1.16 mg/kg dry | 1 | P9L0701 | 12/07/19 | 12/08/19 | EPA 300.0 |
|------------|------|----------------|---|---------|----------|----------|------------|
| % Moisture | 14.0 | 0.1 % | 1 | P9L0613 | 12/06/19 | 12/06/19 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-1 2' 9L06001-03 (Soil)

| | | | | | | | | | 1 |
|---------|--------|-----------|-------|----------|-------|----------|----------|--------|-------|
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

Permian Basin Environmental Lab, L.P.

| Chloride | 28.5 | 1.16 mg/kg dry | 50 | P9L0701 | 12/07/19 | 12/08/19 | EPA 300.0 |
|------------|------|----------------|----|---------|----------|----------|------------|
| % Moisture | 20.0 | 0.1 % | 1 | P9L0613 | 12/06/19 | 12/06/19 | ASTM D2216 |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------|--------------------|-----------|----------------|------------------|-------------|----------------|------|--------------|-------|
| Batch P9L0613 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P9L0613-BLK1) | | | | Prepared & | : Analyzed: | 12/06/19 | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | |
| Duplicate (P9L0613-DUP1) | Sou | rce: 9L05009- | 49 | Prepared & | : Analyzed: | 12/06/19 | | | | |
| % Moisture | 4.0 | 0.1 | % | | 3.0 | | | 28.6 | 20 | |
| Duplicate (P9L0613-DUP2) | Sou | ce: 9L05012- | 04 | Prepared & | : Analyzed: | 12/06/19 | | | | |
| % Moisture | 10.0 | 0.1 | % | - | 10.0 | | | 0.00 | 20 | |
| Duplicate (P9L0613-DUP3) | Sou | ce: 9L06003- | 19 | Prepared & | : Analyzed: | 12/06/19 | | | | |
| % Moisture | 5.0 | 0.1 | % | • | 4.0 | | | 22.2 | 20 | |
| Batch P9L0701 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P9L0701-BLK1) | | | | Prepared: 1 | 2/07/19 A | nalyzed: 12 | /08/19 | | | |
| Chloride | ND | 0.100 | mg/kg wet | | | | | | | |
| LCS (P9L0701-BS1) | | | | Prepared: 1 | 2/07/19 A | nalyzed: 12 | /08/19 | | | |
| Chloride | 418 | 1.00 | mg/kg wet | 400 | | 105 | 80-120 | | | |
| LCS Dup (P9L0701-BSD1) | | | | Prepared: 1 | 2/07/19 A | nalyzed: 12 | /08/19 | | | |
| Chloride | 393 | 1.00 | mg/kg wet | | | 98.3 | 80-120 | 6.16 | 20 | |
| Calibration Blank (P9L0701-CCB1) | | | | Prepared: 1 | 2/07/19 A | nalyzed: 12 | /08/19 | | | |
| Chloride | 0.00 | | mg/kg wet | | | | | | | |
| Calibration Blank (P9L0701-CCB2) | | | | Prepared: 1 | 2/07/19 A | nalyzed: 12 | /08/19 | | | |
| Chloride | 0.00 | | mg/kg wet | | | | | | | |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--------------------------------------|--------|--------------|-----------|-----------|------------|-------------|---------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P9L0701 - *** DEFAULT PREP *** | | | | | | | | | | |
| Calibration Check (P9L0701-CCV1) | | | | Prepared: | 12/07/19 A | nalyzed: 12 | 2/08/19 | | | |
| Chloride | 19.5 | | mg/kg | 20.0 | | 97.6 | 0-200 | | | |
| Calibration Check (P9L0701-CCV2) | | | | Prepared: | 12/07/19 A | nalyzed: 12 | 2/08/19 | | | |
| Chloride | 20.6 | | mg/kg | 20.0 | | 103 | 0-200 | | | |
| Calibration Check (P9L0701-CCV3) | | | | Prepared: | 12/07/19 A | nalyzed: 12 | 2/08/19 | | | |
| Chloride | 19.6 | | mg/kg | 20.0 | | 98.0 | 0-200 | | | |
| Matrix Spike (P9L0701-MS1) | Sour | ce: 9L06001 | -03 | Prepared: | 12/07/19 A | nalyzed: 12 | 2/08/19 | | | |
| Chloride | 24800 | 62.5 | mg/kg dry | 7500 | 15700 | 121 | 80-120 | | | |
| Matrix Spike (P9L0701-MS2) | Sour | ce: 9K26021 | -02 | Prepared: | 12/07/19 A | nalyzed: 12 | 2/08/19 | | | |
| Chloride | 595 | 5.43 | mg/kg dry | 543 | 96.4 | 91.7 | 80-120 | | | |
| Matrix Spike Dup (P9L0701-MSD1) | Sour | ce: 9L06001 | -03 | Prepared: | 12/07/19 A | nalyzed: 12 | 2/08/19 | | | |
| Chloride | 23600 | 62.5 | mg/kg dry | 7500 | 15700 | 105 | 80-120 | 5.16 | 20 | |
| Matrix Spike Dup (P9L0701-MSD2) | Sour | rce: 9K26021 | -02 | Prepared: | 12/07/19 A | nalyzed: 12 | 2/08/19 | | | |
| Chloride | 615 | 5.43 | mg/kg dry | 543 | 96.4 | 95.4 | 80-120 | 3.33 | 20 | |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETEC

Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

| | Bren Barron | | |
|---------------------|-------------|-------|------------|
| Report Approved By: | | Date: | 12/11/2019 |

Brent Barron, Laboratory Director/Technical Director

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PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Aaron Pachlhofer
Fasken Oil & Ranch, Ltd.
6101 Holiday Hill Road
Midland, TX 79707

Project: Denton NO.5 SWD
Project Number: [none]
Location: Lea County, NM

Lab Order Number: 0A07002



NELAP/TCEQ # T104704516-18-9

Report Date: 01/09/20

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|------------------|
| S2 Surface | 0A07002-01 | Soil | 12/17/19 10:00 | 12-27-2019 07:32 |
| S2 1 Foot | 0A07002-02 | Soil | 12/17/19 10:10 | 12-27-2019 07:32 |
| S3 Surface | 0A07002-03 | Soil | 12/17/19 10:25 | 12-27-2019 07:32 |
| S3 1 Foot | 0A07002-04 | Soil | 12/17/19 10:25 | 12-27-2019 07:32 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S2 Surface 0A07002-01 (Soil)

| Analyte | R Result | eporting Limit Units | Dilution | Batch | Prepared | Analyzed | Method | Notes | | | | |
|------------------------|---------------------------------------|-------------------------|----------|---------|----------------|----------------|------------|-------|--|--|--|--|
| | Permian Basin Environmental Lab, L.P. | | | | | | | | | | | |
| General Chemistry Para | ameters by EPA / St | andard Method | ls | | | | | | | | | |
| Chloride | 9680 | 11.2 mg/kg dry | 10 | P0A0709 | 01/07/20 15:45 | 01/07/20 17:29 | EPA 300.0 | | | | | |
| % Moisture | 11.0 | 0.1 % | 1 | P0A0801 | 01/08/20 09:29 | 01/08/20 09:31 | ASTM D2216 | | | | | |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S2 1 Foot 0A07002-02 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 3370 | 5.62 mg/kg dry | 5 | P0A0709 | 01/07/20 15:45 | 01/07/20 18:15 | EPA 300.0 |
|------------|------|----------------|---|---------|----------------|----------------|------------|
| % Moisture | 11.0 | 0.1 % | 1 | P0A0801 | 01/08/20 09:29 | 01/08/20 09:31 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S3 Surface 0A07002-03 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 9560 | 11.2 mg/kg dry | 10 | P0A0709 | 01/07/20 15:45 | 01/07/20 18:30 | EPA 300.0 |
|------------|------|----------------|----|---------|----------------|----------------|------------|
| % Moisture | 11.0 | 0.1 % | 1 | P0A0801 | 01/08/20 09:29 | 01/08/20 09:31 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S3 1 Foot 0A07002-04 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 185 | 1.25 mg/kg dry | 1 | P0A0709 | 01/07/20 15:45 | 01/07/20 18:45 | EPA 300.0 |
|------------|------|----------------|---|---------|----------------|----------------|------------|
| % Moisture | 20.0 | 0.1 % | 1 | P0A0801 | 01/08/20 09:29 | 01/08/20 09:31 | ASTM D2216 |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--------------------------------------|--------|--------------|-----------|------------|-----------|----------|--------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P0A0709 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P0A0709-BLK1) | | | | Prepared & | Analyzed: | 01/07/20 | | | | |
| Chloride | ND | 0.100 | mg/kg wet | | | | | | | |
| LCS (P0A0709-BS1) | | | | Prepared & | Analyzed: | 01/07/20 | | | | |
| Chloride | 386 | 1.00 | mg/kg wet | 400 | | 96.4 | 80-120 | | | |
| LCS Dup (P0A0709-BSD1) | | | | Prepared & | Analyzed: | 01/07/20 | | | | |
| Chloride | 371 | 1.00 | mg/kg wet | 400 | | 92.8 | 80-120 | 3.81 | 20 | |
| Calibration Blank (P0A0709-CCB1) | | | | Prepared & | Analyzed: | 01/07/20 | | | | |
| Chloride | 0.00 | | mg/kg wet | | | | | | | |
| Calibration Blank (P0A0709-CCB2) | | | | Prepared & | Analyzed: | 01/07/20 | | | | |
| Chloride | 0.00 | | mg/kg wet | | | | | | | |
| Calibration Check (P0A0709-CCV1) | | | | Prepared & | Analyzed: | 01/07/20 | | | | |
| Chloride | 17.9 | | mg/kg | 20.0 | | 89.4 | 0-200 | | | |
| Calibration Check (P0A0709-CCV2) | | | | Prepared & | Analyzed: | 01/07/20 | | | | |
| Chloride | 19.0 | | mg/kg | 20.0 | | 95.1 | 0-200 | | | |
| Calibration Check (P0A0709-CCV3) | | | | Prepared & | Analyzed: | 01/07/20 | | | | |
| Chloride | 19.3 | | mg/kg | 20.0 | | 96.5 | 0-200 | | | |
| Matrix Spike (P0A0709-MS1) | Sou | rce: 0A07002 | 2-01 | Prepared & | Analyzed: | 01/07/20 | | | | |
| Chloride | 10800 | 11.2 | mg/kg dry | 1120 | 9680 | 95.9 | 80-120 | | | |
| Matrix Spike (P0A0709-MS2) | Sou | rce: 0A07008 | 3-03 | Prepared & | Analyzed: | 01/07/20 | | | | |
| Chloride | 2930 | 11.5 | mg/kg dry | 1150 | 1730 | 104 | 80-120 | | | |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | | |
|---|--|-------------|-----------|-------------------------------|-------------|----------|--------|-------|-------|-------|--|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes | |
| D. I. DOLOGOO. III DEEL WEDDED III | | | | | | | | | | | |
| Batch P0A0709 - *** DEFAULT PREP *** | | | | | | | | | | | |
| Matrix Spike Dup (P0A0709-MSD1) | Sour | ce: 0A07002 | -01 | Prepared & | Analyzed: | 01/07/20 | | | | | |
| Chloride | 10900 | 11.2 | mg/kg dry | 1120 | 9680 | 112 | 80-120 | 1.63 | 20 | | |
| Matrix Spiles Dup (D0 4 0 700 MSD2) | Ç | ce: 0A07008 | 0.2 | Dramarad & | : Analyzed: | 01/07/20 | | | | | |
| Matrix Spike Dup (P0A0709-MSD2) | | ce: UAU/UU8 | -03 | | | | | | | | |
| Chloride | 2920 | 11.5 | mg/kg dry | 1150 | 1730 | 104 | 80-120 | 0.157 | 20 | | |
| D . I DO A 0004 . data DEEA HIT DDED data | | | | | | | | | | | |
| Batch P0A0801 - *** DEFAULT PREP *** | | | | | | | | | | | |
| Blank (P0A0801-BLK1) | | | | Prepared & | Analyzed: | 01/08/20 | | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | | |
| Dunlingto (DOA0001 DIID1) | Source: 0A07006-01 Prepared & Analyzed: 01/08/20 | | | | | | | | | | |
| Duplicate (P0A0801-DUP1) | Sour | ce: UAU/UUO | -01 | Prepared & Analyzed: 01/08/20 | | | | | | | |
| % Moisture | 15.0 | 0.1 | % | | 15.0 | | | 0.00 | 20 | | |
| Duplicate (P0A0801-DUP2) | Sour | ce: 0A07013 | -04 | Prepared & | : Analyzed: | 01/08/20 | | | | | |
| % Moisture | 17.0 | 0.1 | % | 1 | 17.0 | | | 0.00 | 20 | | |
| | | | | | | | | | | | |
| Duplicate (P0A0801-DUP3) | Sour | ce: 0A07014 | -30 | Prepared & | Analyzed: | 01/08/20 | | | | | |
| % Moisture | 17.0 | 0.1 | % | | 17.0 | | | 0.00 | 20 | | |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Notes and Definitions

| BULK | Samples received in Bulk soil containers |
|------|--|
| DET | Analyte DETECTED |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

Duplicate

MS Matrix Spike

Dup

| | Drew | Devicor C | | |
|---------------------|------|-----------|-------|----------|
| Report Approved By: | | | Date: | 1/9/2020 |

Par

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

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| | ace? | Laboratory Comments: Sample Containers Infant? VCCs Free of Headspace? | l | | | | • | | | | | | | | | | | | | Special Instructions: | Special |
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| RUSH TAT (Pro-Schedule) 24, | | | Anions (Ch. SO4, Alkalinity) BTEX 8021B/5030 or BTEX 820 | NP=Non-Potable Specify Other TPH: TX 1005 TX 1006 | DW=0rinking Water SL=Siudge GW = Groundwater S=Soil/Solid | None Other (Specify) | Na ₂ S ₂ O ₃ | NaOH | H₂SO₄ | HCI | HNO ₃ | Total #. of Containers | Field Filtered | Time Sampled | Date Sampled | Ending Depth | Beginning Depth | | FIELD CODE | | .AB # (láb use only) |
| 48, 72 hrs | | TOTAL: | 0 | | Matrix | SZ. | Containers | Preservation & # of Co | tion & | serva | [교 | | | | arvora, tr | | | | ORDER#: OAOT COZ | | (ab use only) ORDER #c |
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| | Phone: 432-686-7235 | Phone: 4 | | | . 0 | ital Lab, LP | ntall | Permian Basin Environmen 1400 Rankin HWY | ≺ viro | A ū | Bas | nian) Ra | Perr 1400 | | | . | , | | | | |
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Permian Basin Environmental Lab, LP 1400 Rankin HWY Midland, TX 79701 432-686-7235

Analytical Report

Prepared for:

Aaron Pachlhofer
Fasken Oil & Ranch, Ltd.
6101 Holiday Hill Road
Midland, TX 79707



PBELAB Certification Information

Project: Denton NO.5 SWD
Project Number: [none]
Location: Lea County, NM

Lab Order Number: 0A29007

Report Date: 02/19/20

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road

Midland TX, 79707

Project: Denton NO.5 SWD

Project Number: [none]

Project Manager: Aaron Pachlhofer

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|----------------|------------------|
| S-4 Surface | 0A29007-01 | Soil | 01/28/20 09:00 | 01-29-2020 12:00 |
| S-4 @ 1' | 0A29007-02 | Soil | 01/28/20 09:05 | 01-29-2020 12:00 |
| S-5 Surface | 0A29007-03 | Soil | 01/28/20 09:07 | 01-29-2020 12:00 |
| S-5 @ 1' | 0A29007-04 | Soil | 01/28/20 09:10 | 01-29-2020 12:00 |
| S-6 Surface | 0A29007-05 | Soil | 01/28/20 09:11 | 01-29-2020 12:00 |
| S-6 @ 1' | 0A29007-06 | Soil | 01/28/20 09:15 | 01-29-2020 12:00 |
| S-7 Surface | 0A29007-07 | Soil | 01/28/20 09:18 | 01-29-2020 12:00 |
| S-7 @ 1' | 0A29007-08 | Soil | 01/28/20 09:22 | 01-29-2020 12:00 |
| S-8 Surface | 0A29007-09 | Soil | 01/28/20 09:25 | 01-29-2020 12:00 |
| S-8 @ 1' | 0A29007-10 | Soil | 01/28/20 09:30 | 01-29-2020 12:00 |
| S-9 Surface | 0A29007-11 | Soil | 01/28/20 09:35 | 01-29-2020 12:00 |
| S-9 @ 1' | 0A29007-12 | Soil | 01/28/20 09:39 | 01-29-2020 12:00 |
| S-10 Surface | 0A29007-13 | Soil | 01/28/20 09:42 | 01-29-2020 12:00 |
| S-10 @ 1' | 0A29007-14 | Soil | 01/28/20 09:46 | 01-29-2020 12:00 |
| S-11 Surface | 0A29007-15 | Soil | 01/28/20 09:50 | 01-29-2020 12:00 |
| S-11 @ 1' | 0A29007-16 | Soil | 01/28/20 09:55 | 01-29-2020 12:00 |
| S-12 Surface | 0A29007-17 | Soil | 01/28/20 09:59 | 01-29-2020 12:00 |
| S-12 @ 1' | 0A29007-18 | Soil | 01/28/20 10:04 | 01-29-2020 12:00 |
| S-13 Surface | 0A29007-19 | Soil | 01/28/20 10:10 | 01-29-2020 12:00 |
| S-13 @ 1' | 0A29007-20 | Soil | 01/28/20 10:15 | 01-29-2020 12:00 |
| S-14 Surface | 0A29007-21 | Soil | 01/28/20 10:16 | 01-29-2020 12:00 |
| S-14 @ 1' | 0A29007-22 | Soil | 01/28/20 10:21 | 01-29-2020 12:00 |
| S-15 Surface | 0A29007-23 | Soil | 01/28/20 10:30 | 01-29-2020 12:00 |
| S-15 @ 1' | 0A29007-24 | Soil | 01/28/20 10:36 | 01-29-2020 12:00 |
| S-16 Surface | 0A29007-25 | Soil | 01/28/20 11:00 | 01-29-2020 12:00 |
| S-16 @ 1' | 0A29007-26 | Soil | 01/28/20 11:10 | 01-29-2020 12:00 |
| S-17 Surface | 0A29007-27 | Soil | 01/28/20 11:20 | 01-29-2020 12:00 |
| S-17 @ 1' | 0A29007-28 | Soil | 01/28/20 11:27 | 01-29-2020 12:00 |
| S-18 Surface | 0A29007-29 | Soil | 01/28/20 11:35 | 01-29-2020 12:00 |
| S-18 @ 1' | 0A29007-30 | Soil | 01/28/20 11:41 | 01-29-2020 12:00 |
| S-19 Surface | 0A29007-31 | Soil | 01/28/20 13:14 | 01-29-2020 12:00 |
| S-19 @ 1' | 0A29007-32 | Soil | 01/28/20 13:20 | 01-29-2020 12:00 |
| S-20 Surface | 0A29007-33 | Soil | 01/28/20 13:30 | 01-29-2020 12:00 |
| S-20 @ 1' | 0A29007-34 | Soil | 01/28/20 13:35 | 01-29-2020 12:00 |

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road

Project: Denton NO.5 SWD

Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer Fax: 43-687-1570

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|----------------|------------------|
| S-21 Surface | 0A29007-35 | Soil | 01/28/20 13:21 | 01-29-2020 12:00 |
| S-21 @ 1' | 0A29007-36 | Soil | 01/28/20 13:25 | 01-29-2020 12:00 |
| S-22 Surface | 0A29007-37 | Soil | 01/28/20 13:35 | 01-29-2020 12:00 |
| S-22 @ 1' | 0A29007-38 | Soil | 01/28/20 13:40 | 01-29-2020 12:00 |
| S-23 Surface | 0A29007-39 | Soil | 01/28/20 14:44 | 01-29-2020 12:00 |
| S-23 @ 1' | 0A29007-40 | Soil | 01/28/20 14:53 | 01-29-2020 12:00 |
| S-24 Surface | 0A29007-41 | Soil | 01/28/20 14:55 | 01-29-2020 12:00 |
| S-24 @ 1' | 0A29007-42 | Soil | 01/28/20 15:00 | 01-29-2020 12:00 |
| S-25 Surface | 0A29007-43 | Soil | 01/28/20 15:04 | 01-29-2020 12:00 |
| S-25 @ 1' | 0A29007-44 | Soil | 01/28/20 15:08 | 01-29-2020 12:00 |
| S-26 Surface | 0A29007-45 | Soil | 01/28/20 13:47 | 01-29-2020 12:00 |
| S-26 @ 1' | 0A29007-46 | Soil | 01/28/20 13:53 | 01-29-2020 12:00 |
| S-27 Surface | 0A29007-47 | Soil | 01/28/20 15:05 | 01-29-2020 12:00 |
| S-27 @ 1' | 0A29007-48 | Soil | 01/28/20 15:10 | 01-29-2020 12:00 |
| S-28 Surface | 0A29007-49 | Soil | 01/28/20 15:15 | 01-29-2020 12:00 |
| S-28 @ 1' | 0A29007-50 | Soil | 01/28/20 15:20 | 01-29-2020 12:00 |
| S-29 Surface | 0A29007-51 | Soil | 01/28/20 13:55 | 01-29-2020 12:00 |
| S-29 @ 1' | 0A29007-52 | Soil | 01/28/20 14:00 | 01-29-2020 12:00 |
| S-30 Surface | 0A29007-53 | Soil | 01/28/20 15:19 | 01-29-2020 12:00 |
| S-30 @ 1' | 0A29007-54 | Soil | 01/28/20 15:23 | 01-29-2020 12:00 |
| S-31 Surface | 0A29007-55 | Soil | 01/28/20 14:30 | 01-29-2020 12:00 |
| S-31 @ 1' | 0A29007-56 | Soil | 01/28/20 15:35 | 01-29-2020 12:00 |
| S-32 Surface | 0A29007-57 | Soil | 01/28/20 14:07 | 01-29-2020 12:00 |
| S-32 @ 1' | 0A29007-58 | Soil | 01/28/20 14:12 | 01-29-2020 12:00 |
| S-33 Surface | 0A29007-59 | Soil | 01/28/20 14:14 | 01-29-2020 12:00 |
| S-33 @ 1' | 0A29007-60 | Soil | 01/28/20 14:20 | 01-29-2020 12:00 |
| S-34 Surface | 0A29007-61 | Soil | 01/28/20 14:23 | 01-29-2020 12:00 |
| S-34 @ 1' | 0A29007-62 | Soil | 01/28/20 14:30 | 01-29-2020 12:00 |
| S-35 Surface | 0A29007-63 | Soil | 01/28/20 14:35 | 01-29-2020 12:00 |
| S-35 @ 1' | 0A29007-64 | Soil | 01/28/20 14:40 | 01-29-2020 12:00 |
| S-36 Surface | 0A29007-65 | Soil | 01/28/20 14:40 | 01-29-2020 12:00 |
| S-36 @ 1' | 0A29007-66 | Soil | 01/28/20 15:45 | 01-29-2020 12:00 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----|------|-----------|----------|---------|----------|----------|-----------|-------|
| S-4 Surface (0A29007-01RE1) Soil | | | | | | | | | | |
| Chloride | 10700 | | 54.3 | mg/kg dry | 5 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-4 @ 1' (0A29007-02RE1) Soil | | | | | | | | | | |
| Chloride | 265 | | 11.6 | mg/kg dry | 1 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-5 Surface (0A29007-03RE1) Soil | | | | | | | | | | |
| Chloride | 5310 | | 53.2 | mg/kg dry | 5 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-5 @ 1' (0A29007-04RE1) Soil | | | | | | | | | | |
| Chloride | 115 | | 12.7 | mg/kg dry | 1 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-6 Surface (0A29007-05RE1) Soil | | | | | | | | | | |
| Chloride | 3590 | | 56.2 | mg/kg dry | 5 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-6 @ 1' (0A29007-06RE1) Soil | | | | | | | | | | |
| Chloride | 144 | | 15.2 | mg/kg dry | 1 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-7 Surface (0A29007-07RE1) Soil | | | | | | | | | | |
| Chloride | 5690 | | 64.1 | mg/kg dry | 5 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-7 @ 1' (0A29007-08RE1) Soil | | | | | | | | | | |
| Chloride | 232 | | 10.4 | mg/kg dry | 1 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-8 Surface (0A29007-09RE1) Soil | | | | | | | | | | |
| Chloride | 15400 | | 281 | mg/kg dry | 25 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-8 @ 1' (0A29007-10RE1) Soil | | | | | | | | | | |
| Chloride | 219 | | 12.7 | mg/kg dry | 1 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------------|--------|-----|------|-----------|----------|---------|----------|----------|-----------|-------|
| S-9 Surface (0A29007-11RE1) Soil | | | | | | | | | | |
| Chloride | 1270 | | 10.8 | mg/kg dry | 1 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-9 @ 1' (0A29007-12RE1) Soil | | | | | | | | | | |
| Chloride | 81.3 | | 11.5 | mg/kg dry | 1 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-10 Surface (0A29007-13RE1) Soil | | | | | | | | | | |
| Chloride | 13000 | | 269 | mg/kg dry | 25 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-10 @ 1' (0A29007-14RE1) Soil | | | | | | | | | | |
| Chloride | 130 | | 12.2 | mg/kg dry | 1 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-11 Surface (0A29007-15RE1) Soil | | | | | | | | | | |
| Chloride | 1630 | | 10.9 | mg/kg dry | 1 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-11 @ 1' (0A29007-16RE1) Soil | | | | | | | | | | |
| Chloride | 66.6 | | 11.6 | mg/kg dry | 1 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-12 Surface (0A29007-17RE1) Soil | | | | | | | | | | |
| Chloride | 7080 | | 105 | mg/kg dry | 10 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-12 @ 1' (0A29007-18RE1) Soil | | | | | | | | | | |
| Chloride | 377 | | 12.0 | mg/kg dry | 1 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-13 Surface (0A29007-19RE1) Soil | | | | | | | | | | |
| Chloride | 8330 | | 106 | mg/kg dry | 10 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-13 @ 1' (0A29007-20RE1) Soil | | | | | | | | | | |
| Chloride | 454 | | 12.8 | mg/kg dry | 1 | P0B1801 | 02/18/20 | 02/18/20 | EPA 300.0 | _ |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------------|--------|-----|------|-----------|----------|---------|----------|----------|-----------|-------|
| S-14 Surface (0A29007-21RE1) Soil | | | | | | | | | | |
| Chloride | 16300 | | 27.5 | mg/kg dry | 25 | P0B1802 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-14 @ 1' (0A29007-22RE1) Soil | | | | | | | | | | |
| Chloride | 59.7 | | 1.22 | mg/kg dry | 1 | P0B1802 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-15 Surface (0A29007-23RE1) Soil | | | | | | | | | | |
| Chloride | 12400 | | 10.6 | mg/kg dry | 10 | P0B1802 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-15 @ 1' (0A29007-24RE1) Soil | | | | | | | | | | |
| Chloride | 408 | | 6.25 | mg/kg dry | 5 | P0B1802 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-16 Surface (0A29007-25RE1) Soil | | | | | | | | | | |
| Chloride | 19700 | | 29.1 | mg/kg dry | 25 | P0B1802 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-16 @ 1' (0A29007-26RE1) Soil | | | | | | | | | | |
| Chloride | 131 | | 1.11 | mg/kg dry | 1 | P0B1802 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-17 Surface (0A29007-27RE1) Soil | | | | | | | | | | |
| Chloride | 855 | | 1.08 | mg/kg dry | 1 | P0B1802 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-17 @ 1' (0A29007-28RE1) Soil | | | | | | | | | | |
| Chloride | 80.0 | | 1.27 | mg/kg dry | 1 | P0B1802 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-18 Surface (0A29007-29RE1) Soil | | | | | | | | | | |
| Chloride | 18900 | | 27.5 | mg/kg dry | 25 | P0B1802 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-18 @ 1' (0A29007-30RE1) Soil | | | | | | | | | | |
| Chloride | 503 | | 1.25 | mg/kg dry | 1 | P0B1802 | 02/18/20 | 02/18/20 | EPA 300.0 | |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------------|--------|-----|------|-----------|----------|---------|----------|----------|-----------|-------|
| S-19 Surface (0A29007-31RE1) Soil | | | | | | | | | | |
| Chloride | 7900 | | 10.9 | mg/kg dry | 10 | P0B1802 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-19 @ 1' (0A29007-32RE1) Soil | | | | | | | | | | |
| Chloride | 65.5 | | 1.27 | mg/kg dry | 1 | P0B1802 | 02/18/20 | 02/19/20 | EPA 300.0 | |
| S-20 Surface (0A29007-33RE1) Soil | | | | | | | | | | |
| Chloride | 2280 | | 5.26 | mg/kg dry | 5 | P0B1802 | 02/18/20 | 02/19/20 | EPA 300.0 | |
| S-20 @ 1' (0A29007-34RE1) Soil | | | | | | | | | | |
| Chloride | 81.7 | | 1.23 | mg/kg dry | 1 | P0B1802 | 02/18/20 | 02/19/20 | EPA 300.0 | |
| S-21 Surface (0A29007-35RE1) Soil | | | | | | | | | | |
| Chloride | 14300 | | 26.6 | mg/kg dry | 25 | P0B1802 | 02/18/20 | 02/19/20 | EPA 300.0 | |
| S-21 @ 1' (0A29007-36RE1) Soil | | | | | | | | | | |
| Chloride | 301 | | 1.22 | mg/kg dry | 1 | P0B1802 | 02/18/20 | 02/19/20 | EPA 300.0 | |
| S-22 Surface (0A29007-37RE1) Soil | | | | | | | | | | |
| Chloride | 469 | | 1.02 | mg/kg dry | 1 | P0B1802 | 02/18/20 | 02/19/20 | EPA 300.0 | |
| S-22 @ 1' (0A29007-38RE1) Soil | | | | | | | | | | |
| Chloride | 507 | | 1.23 | mg/kg dry | 1 | P0B1802 | 02/18/20 | 02/19/20 | EPA 300.0 | |
| S-23 Surface (0A29007-39RE1) Soil | | | | | | | | | | |
| Chloride | 1100 | | 5.43 | mg/kg dry | 5 | P0B1802 | 02/18/20 | 02/19/20 | EPA 300.0 | |
| S-23 @ 1' (0A29007-40RE1) Soil | | | | | | | | | | |
| Chloride | 503 | | 1.23 | mg/kg dry | 1 | P0B1802 | 02/18/20 | 02/19/20 | EPA 300.0 | |

6101 Holiday Hill Road

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

General Chemistry Parameters by EPA / Standard Methods Permian Basin Environmental Lab, L.P.

Project Number: [none]

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------------|--------|-----|------|-----------|----------|---------|----------|----------|-----------|-------|
| S-24 Surface (0A29007-41RE1) Soil | | | | | | | | | | |
| Chloride | 15900 | | 26.9 | mg/kg dry | 25 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-24 @ 1' (0A29007-42RE1) Soil | | | | | | | | | | |
| Chloride | 1620 | | 1.69 | mg/kg dry | 1 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-25 Surface (0A29007-43RE1) Soil | | | | | | | | | | |
| Chloride | 8580 | | 11.1 | mg/kg dry | 10 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-25 @ 1' (0A29007-44RE1) Soil | | | | | | | | | | |
| Chloride | 288 | | 1.16 | mg/kg dry | 1 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-26 Surface (0A29007-45RE1) Soil | | | | | | | | | | |
| Chloride | 11000 | | 11.9 | mg/kg dry | 10 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-26 @ 1' (0A29007-46RE1) Soil | | | | | | | | | | |
| Chloride | 1310 | | 5.62 | mg/kg dry | 5 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-27 Surface (0A29007-47RE1) Soil | | | | | | | | | | |
| Chloride | 7340 | | 11.1 | mg/kg dry | 10 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-27 @ 1' (0A29007-48RE1) Soil | | | | | | | | | | |
| Chloride | 576 | | 1.19 | mg/kg dry | 1 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-28 Surface (0A29007-49RE1) Soil | | | | | | | | | | |
| Chloride | 4970 | | 10.6 | mg/kg dry | 10 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-28 @ 1' (0A29007-50RE1) Soil | | | | | | | | | | |
| Chloride | 599 | _ | 1.18 | mg/kg dry | 1 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------------|--------|-----|------|-----------|----------|---------|----------|----------|-----------|-------|
| S-29 Surface (0A29007-51RE1) Soil | | | | | | | | | | |
| Chloride | 14400 | | 27.5 | mg/kg dry | 25 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-29 @ 1' (0A29007-52RE1) Soil | | | | | | | | | | |
| Chloride | 674 | | 1.18 | mg/kg dry | 1 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-30 Surface (0A29007-53RE1) Soil | | | | | | | | | | |
| Chloride | 9540 | | 26.9 | mg/kg dry | 25 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-30 @ 1' (0A29007-54RE1) Soil | | | | | | | | | | |
| Chloride | 4790 | | 13.0 | mg/kg dry | 10 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-31 Surface (0A29007-55RE1) Soil | | | | | | | | | | |
| Chloride | 8050 | | 10.9 | mg/kg dry | 10 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-31 @ 1' (0A29007-56RE1) Soil | | | | | | | | | | |
| Chloride | 672 | | 1.15 | mg/kg dry | 1 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-32 Surface (0A29007-57RE1) Soil | | | | | | | | | | |
| Chloride | 4010 | | 5.15 | mg/kg dry | 5 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-32 @ 1' (0A29007-58RE1) Soil | | | | | | | | | | |
| Chloride | 1380 | | 1.18 | mg/kg dry | 1 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-33 Surface (0A29007-59RE1) Soil | | | | | | | | | | |
| Chloride | 8620 | | 10.4 | mg/kg dry | 10 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-33 @ 1' (0A29007-60RE1) Soil | | | | | | | | | | |
| Chloride | 348 | | 1.19 | mg/kg dry | 1 | P0B1803 | 02/18/20 | 02/18/20 | EPA 300.0 | |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------------|--------|-----|------|-----------|----------|---------|----------|----------|-----------|-------|
| S-34 Surface (0A29007-61RE1) Soil | | | | | | | | | | |
| Chloride | 7470 | | 11.0 | mg/kg dry | 10 | P0B1804 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-34 @ 1' (0A29007-62RE1) Soil | | | | | | | | | | |
| Chloride | 1630 | | 1.22 | mg/kg dry | 1 | P0B1804 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-35 Surface (0A29007-63RE1) Soil | | | | | | | | | | |
| Chloride | 7950 | | 10.8 | mg/kg dry | 10 | P0B1804 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-35 @ 1' (0A29007-64RE1) Soil | | | | | | | | | | |
| Chloride | 1830 | | 1.23 | mg/kg dry | 1 | P0B1804 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-36 Surface (0A29007-65RE1) Soil | | | | | | | | | | |
| Chloride | 340 | | 1.06 | mg/kg dry | 1 | P0B1804 | 02/18/20 | 02/18/20 | EPA 300.0 | |
| S-36 @ 1' (0A29007-66RE1) Soil | | | | | | | | | | |
| Chloride | 107 | | 1.12 | mg/kg dry | 1 | P0B1804 | 02/18/20 | 02/18/20 | EPA 300.0 | |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Organics by GC

Permian Basin Environmental Lab, L.P.

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | No |
|---------------------------------|-----------|-----|---------|-----------|----------|---------|----------|------------|-----------|----|
| S-26 Surface (0A29007-45) Soil | | | | | | | | | | |
| Benzene | < 0.00119 | | 0.00119 | mg/kg dry | 1 | P0B1004 | 02/10/2 | 0 02/11/20 | EPA 8021B | |
| Toluene | < 0.00119 | | 0.00119 | " | " | " | " | " | " | |
| Ethylbenzene | < 0.00119 | | 0.00119 | " | " | " | " | " | " | |
| Xylene (p/m) | < 0.00238 | | 0.00238 | " | " | " | " | " | " | |
| Xylene (o) | < 0.00119 | | 0.00119 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | | 99.0 % | 75- | 125 | " | " | " | " | |
| Surrogate: 1,4-Difluorobenzene | | | 96.0 % | 75- | 125 | " | " | " | " | |
| S-26 @ 1' (0A29007-46) Soil | | | | | | | | | | |
| Benzene | < 0.00112 | | 0.00112 | mg/kg dry | 1 | P0B1004 | 02/10/2 | 0 02/11/20 | EPA 8021B | |
| Toluene | < 0.00112 | | 0.00112 | " | " | " | " | " | " | |
| Ethylbenzene | < 0.00112 | | 0.00112 | " | | " | " | " | " | |
| Xylene (p/m) | < 0.00225 | | 0.00225 | " | | " | " | " | " | |
| Xylene (o) | < 0.00112 | | 0.00112 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | | 99.7 % | 75- | 125 | " | " | " | " | |
| Surrogate: 1,4-Difluorobenzene | | | 97.0 % | 75- | 125 | " | " | " | " | |
| S-29 Surface (0A29007-51) Soil | | | | | | | | | | |
| Benzene | < 0.00110 | | 0.00110 | mg/kg dry | 1 | P0B1004 | 02/10/2 | 0 02/11/20 | EPA 8021B | |
| Toluene | < 0.00110 | | 0.00110 | " | " | " | " | " | " | |
| Ethylbenzene | < 0.00110 | | 0.00110 | " | " | " | " | " | " | |
| Xylene (p/m) | < 0.00220 | | 0.00220 | " | " | " | " | " | " | |
| Xylene (o) | < 0.00110 | | 0.00110 | " | " | " | " | " | " | |
| Surrogate: 1,4-Difluorobenzene | | | 95.3 % | 75- | 125 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | | 99.7 % | 75- | 125 | " | " | " | " | |
| S-29 @ 1' (0A29007-52) Soil | | | | | | | | | | |
| Benzene | < 0.00118 | | 0.00118 | mg/kg dry | 1 | P0B1004 | 02/10/2 | 0 02/11/20 | EPA 8021B | |
| Toluene | < 0.00118 | | 0.00118 | " | " | " | " | " | " | |
| Ethylbenzene | < 0.00118 | | 0.00118 | " | " | " | " | " | " | |
| Xylene (p/m) | < 0.00235 | | 0.00235 | " | " | " | " | " | " | |
| Xylene (o) | < 0.00118 | | 0.00118 | " | " | " | " | " | " | |
| Surrogate: 1,4-Difluorobenzene | | | 94.0 % | 75- | 125 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | | 96.4 % | 75- | | " | " | " | " | |

Permian Basin Environmental Lab, L.P.

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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Permian Basin Environmental Lab, L.P.

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|---------------------------------|-----------|-----|---------|-----------|----------|---------|----------|--------------|-----------|------|
| S-32 Surface (0A29007-57) Soil | | | | | | | | | | |
| Benzene | < 0.00103 | | 0.00103 | mg/kg dry | 1 | P0B1004 | 02/10 | /20 02/11/20 | EPA 8021B | |
| Toluene | < 0.00103 | | 0.00103 | " | " | " | " | " | " | |
| Ethylbenzene | < 0.00103 | | 0.00103 | " | " | " | " | " | " | |
| Xylene (p/m) | < 0.00206 | | 0.00206 | " | " | " | " | " | " | |
| Xylene (o) | < 0.00103 | | 0.00103 | " | " | " | " | " | " | |
| Surrogate: 1,4-Difluorobenzene | | | 96.3 % | 75-1 | 25 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | | 101 % | 75-1 | 25 | " | " | " | " | |
| S-32 @ 1' (0A29007-58) Soil | | | | | | | | | | |
| Benzene | < 0.00118 | | 0.00118 | mg/kg dry | 1 | P0B1004 | 02/10 | /20 02/11/20 | EPA 8021B | |
| Toluene | < 0.00118 | | 0.00118 | " | " | " | " | " | " | |
| Ethylbenzene | < 0.00118 | | 0.00118 | " | " | " | " | " | " | |
| Xylene (p/m) | < 0.00235 | | 0.00235 | " | " | " | " | " | " | |
| Xylene (o) | < 0.00118 | | 0.00118 | " | " | " | " | " | " | |
| Surrogate: 1,4-Difluorobenzene | | | 94.5 % | 75-1 | 25 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | | 99.5 % | 75-1 | 25 | " | " | " | " | |
| S-34 Surface (0A29007-61) Soil | | | | | | | | | | |
| Benzene | < 0.00110 | | 0.00110 | mg/kg dry | 1 | P0B1004 | 02/10 | /20 02/11/20 | EPA 8021B | |
| Toluene | < 0.00110 | | 0.00110 | " | " | " | " | " | " | |
| Ethylbenzene | < 0.00110 | | 0.00110 | " | " | " | " | " | " | |
| Xylene (p/m) | < 0.00220 | | 0.00220 | " | " | " | " | " | " | |
| Xylene (o) | < 0.00110 | | 0.00110 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | | 98.2 % | 75-1 | 25 | " | " | " | " | |
| Surrogate: 1,4-Difluorobenzene | | | 95.8 % | 75-1 | 25 | " | " | " | " | |
| S-34 @ 1' (0A29007-62) Soil | | | | | | | | | | |
| Benzene | < 0.00122 | | 0.00122 | mg/kg dry | 1 | P0B1004 | 02/10 | /20 02/11/20 | EPA 8021B | |
| Toluene | < 0.00122 | | 0.00122 | " | " | " | " | " | " | |
| Ethylbenzene | < 0.00122 | | 0.00122 | " | " | " | " | " | " | |
| Xylene (p/m) | < 0.00244 | | 0.00244 | " | " | " | " | " | " | |
| Xylene (o) | < 0.00122 | | 0.00122 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | | 102 % | 75-1 | 25 | " | " | " | " | |
| Surrogate: 1,4-Difluorobenzene | | | 95.6 % | 75-1 | | " | " | " | " | |

Permian Basin Environmental Lab, L.P.

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M Permian Basin Environmental Lab, L.P.

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|--------------------------------|--------|-----|--------|-----------|----------|---------|----------|----------|-----------|------|
| S-26 Surface (0A29007-45) Soil | | | | | | | | | | |
| C6-C12 | <29.8 | | 29.8 | mg/kg dry | 1 | P0B1107 | 02/11/20 | 02/11/20 | TPH 8015M | |
| >C12-C28 | 198 | | 29.8 | " | " | " | " | " | " | |
| >C28-C35 | 107 | | 29.8 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | | 84.4 % | 70-13 | 30 | " | " | " | " | |
| Surrogate: o-Terphenyl | | | 106 % | 70-13 | 30 | " | " | " | " | |
| S-26 @ 1' (0A29007-46) Soil | | | | | | | | | | |
| C6-C12 | <28.1 | | 28.1 | mg/kg dry | 1 | P0B1107 | 02/11/20 | 02/11/20 | TPH 8015M | |
| >C12-C28 | <28.1 | | 28.1 | " | " | " | " | " | " | |
| >C28-C35 | 35.7 | | 28.1 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | | 89.0 % | 70-13 | 30 | " | " | " | " | |
| Surrogate: o-Terphenyl | | | 111 % | 70-13 | 30 | " | " | " | " | |
| S-29 Surface (0A29007-51) Soil | | | | | | | | | | |
| C6-C12 | <27.5 | | 27.5 | mg/kg dry | 1 | P0B1107 | 02/11/20 | 02/14/20 | TPH 8015M | |
| >C12-C28 | 162 | | 27.5 | " | " | " | " | " | " | |
| >C28-C35 | 45.4 | | 27.5 | " | " | " | " | " | n . | |
| Surrogate: 1-Chlorooctane | | | 118 % | 70-13 | 30 | " | " | " | " | |
| Surrogate: o-Terphenyl | | | 117 % | 70-13 | 30 | " | " | " | " | |
| S-29 @ 1' (0A29007-52) Soil | | | | | | | | | | |
| C6-C12 | <29.4 | | 29.4 | mg/kg dry | 1 | P0B1107 | 02/11/20 | 02/11/20 | TPH 8015M | |
| >C12-C28 | <29.4 | | 29.4 | " | " | " | " | " | " | |
| >C28-C35 | <29.4 | | 29.4 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | | 102 % | 70-13 | 30 | " | " | " | " | |
| Surrogate: o-Terphenyl | | | 120 % | 70-13 | 30 | " | " | " | " | |
| S-32 Surface (0A29007-57) Soil | | | | | | | | | | |
| C6-C12 | <25.8 | | 25.8 | mg/kg dry | 1 | P0B1107 | 02/11/20 | 02/11/20 | TPH 8015M | |
| >C12-C28 | 158 | | 25.8 | " | " | " | " | " | " | |
| >C28-C35 | 37.9 | | 25.8 | " | " | " | " | n n | II . | |
| Surrogate: 1-Chlorooctane | | | 98.8 % | 70-13 | 30 | " | " | " | " | |
| Surrogate: o-Terphenyl | | | 117 % | 70-13 | 30 | " | " | " | " | |

Permian Basin Environmental Lab, L.P.

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M Permian Basin Environmental Lab, L.P.

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|--------------------------------|--------|-----|--------|-----------|----------|---------|----------|----------|-----------|------|
| S-32 @ 1' (0A29007-58) Soil | | | | | | | - | • | | |
| C6-C12 | <29.4 | | 29.4 | mg/kg dry | 1 | P0B1107 | 02/11/20 | 02/11/20 | TPH 8015M | |
| >C12-C28 | <29.4 | | 29.4 | " | " | " | " | " | " | |
| >C28-C35 | <29.4 | | 29.4 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | | 98.2 % | 70-13 | 30 | " | " | " | " | |
| Surrogate: o-Terphenyl | | | 114 % | 70-13 | 30 | " | " | " | " | |
| S-34 Surface (0A29007-61) Soil | | | | | | | | | | |
| C6-C12 | <27.5 | | 27.5 | mg/kg dry | 1 | P0B1107 | 02/11/20 | 02/11/20 | TPH 8015M | |
| >C12-C28 | 623 | | 27.5 | " | " | " | " | " | " | |
| >C28-C35 | 127 | | 27.5 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | | 103 % | 70-13 | 30 | " | " | " | " | |
| Surrogate: o-Terphenyl | | | 124 % | 70-13 | 30 | " | " | " | " | |
| S-34 @ 1' (0A29007-62) Soil | | | | | | | | | | |
| C6-C12 | <30.5 | | 30.5 | mg/kg dry | 1 | P0B1107 | 02/11/20 | 02/11/20 | TPH 8015M | |
| >C12-C28 | 62.8 | | 30.5 | " | " | " | " | " | " | |
| >C28-C35 | 37.0 | | 30.5 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | | 98.3 % | 70-13 | 30 | " | " | " | " | |
| Surrogate: o-Terphenyl | | | 115 % | 70-13 | 30 | " | " | " | " | |

6101 Holiday Hill Road

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

General Chemistry Parameters by EPA / Standard Methods Permian Basin Environmental Lab, L.P.

Project Number: [none]

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|--------|-----|-----|-------|----------|---------|----------|----------|---------------|-------|
| S-4 Surface (0A29007-01) Soil | | | | | | | | | | |
| % Moisture | 8.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-4 @ 1' (0A29007-02) Soil | | | | | | | | | | |
| % Moisture | 14.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-5 Surface (0A29007-03) Soil | | | | | | | | | | |
| % Moisture | 6.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-5 @ 1' (0A29007-04) Soil | | | | | | | | | | |
| % Moisture | 21.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-6 Surface (0A29007-05) Soil | | | | | | | | | | |
| % Moisture | 11.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-6 @ 1' (0A29007-06) Soil | | | | | | | | | | |
| % Moisture | 34.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-7 Surface (0A29007-07) Soil | | | | | | | | | | |
| % Moisture | 22.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-7 @ 1' (0A29007-08) Soil | | | | | | | | | | |
| % Moisture | 4.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-8 Surface (0A29007-09) Soil | | | | | | | | | | |
| % Moisture | 11.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-8 @ 1' (0A29007-10) Soil | | | | | | | | | | |
| % Moisture | 21.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |

Permian Basin Environmental Lab, L.P.

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

General Chemistry Parameters by EPA / Standard Methods Permian Basin Environmental Lab, L.P.

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------|--------|-----|-----|-------|----------|---------|----------|----------|---------------|-------|
| S-9 Surface (0A29007-11) Soil | | | | | | | | | | |
| % Moisture | 7.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-9 @ 1' (0A29007-12) Soil | | | | | | | | | | |
| % Moisture | 13.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-10 Surface (0A29007-13) Soil | | | | | | | | | | |
| % Moisture | 7.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-10 @ 1' (0A29007-14) Soil | | | | | | | | | | |
| % Moisture | 18.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-11 Surface (0A29007-15) Soil | | | | | | | | | | |
| % Moisture | 8.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-11 @ 1' (0A29007-16) Soil | | | | | | | | | | |
| % Moisture | 14.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-12 Surface (0A29007-17) Soil | | | | | | | | | | |
| % Moisture | 5.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-12 @ 1' (0A29007-18) Soil | | | | | | | | | | |
| % Moisture | 17.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-13 Surface (0A29007-19) Soil | | | | | | | | | | |
| % Moisture | 6.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-13 @ 1' (0A29007-20) Soil | | | | | | | | | | |
| % Moisture | 22.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |

Permian Basin Environmental Lab, L.P.

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

General Chemistry Parameters by EPA / Standard Methods Permian Basin Environmental Lab, L.P.

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|--------------------------------|--------|-----|-----|-------|----------|---------|----------|----------|---------------|------|
| S-14 Surface (0A29007-21) Soil | | | | | | | | | | |
| % Moisture | 9.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-14 @ 1' (0A29007-22) Soil | | | | | | | | | | |
| % Moisture | 18.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-15 Surface (0A29007-23) Soil | | | | | | | | | | |
| % Moisture | 6.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-15 @ 1' (0A29007-24) Soil | | | | | | | | | | |
| % Moisture | 20.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-16 Surface (0A29007-25) Soil | | | | | | | | | | |
| % Moisture | 14.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-16 @ 1' (0A29007-26) Soil | | | | | | | | | | |
| % Moisture | 10.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-17 Surface (0A29007-27) Soil | | | | | | | | | | |
| % Moisture | 7.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-17 @ 1' (0A29007-28) Soil | | | | | | | | | | |
| % Moisture | 21.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-18 Surface (0A29007-29) Soil | | | | | | | | | | |
| % Moisture | 9.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-18 @ 1' (0A29007-30) Soil | | | | | | | | | | |
| % Moisture | 20.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |

Permian Basin Environmental Lab, L.P.

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

General Chemistry Parameters by EPA / Standard Methods Permian Basin Environmental Lab, L.P.

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------|--------|-----|-----|-------|----------|---------|----------|----------|---------------|-------|
| S-19 Surface (0A29007-31) Soil | | | | | | | | | | |
| % Moisture | 8.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-19 @ 1' (0A29007-32) Soil | | | | | | | | | | |
| % Moisture | 21.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-20 Surface (0A29007-33) Soil | | | | | | | | | | |
| % Moisture | 5.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-20 @ 1' (0A29007-34) Soil | | | | | | | | | | |
| % Moisture | 19.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-21 Surface (0A29007-35) Soil | | | | | | | | | | |
| % Moisture | 6.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-21 @ 1' (0A29007-36) Soil | | | | | | | | | | |
| % Moisture | 18.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-22 Surface (0A29007-37) Soil | | | | | | | | | | |
| % Moisture | 2.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-22 @ 1' (0A29007-38) Soil | | | | | | | | | | |
| % Moisture | 19.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-23 Surface (0A29007-39) Soil | | | | | | | | | | |
| % Moisture | 8.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-23 @ 1' (0A29007-40) Soil | | | | | | | | | | |
| % Moisture | 19.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |

Permian Basin Environmental Lab, L.P.

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

General Chemistry Parameters by EPA / Standard Methods Permian Basin Environmental Lab, L.P.

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|--------------------------------|--------|-----|-----|-------|----------|---------|----------|----------|---------------|------|
| S-24 Surface (0A29007-41) Soil | Resuit | SQL | MQL | Onits | Dilution | Dateil | riepared | Anaryzeu | ivicuiod | note |
| % Moisture | 7.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-24 @ 1' (0A29007-42) Soil | | | | | | | | | | |
| % Moisture | 41.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-25 Surface (0A29007-43) Soil | | | | | | | | | | |
| % Moisture | 10.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-25 @ 1' (0A29007-44) Soil | | | | | | | | | | |
| % Moisture | 14.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-26 Surface (0A29007-45) Soil | | | | | | | | | | |
| % Moisture | 16.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-26 @ 1' (0A29007-46) Soil | | | | | | | | | | |
| % Moisture | 11.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-27 Surface (0A29007-47) Soil | | | | | | | | | | |
| % Moisture | 10.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-27 @ 1' (0A29007-48) Soil | | | | | | | | | | |
| % Moisture | 16.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-28 Surface (0A29007-49) Soil | | | | | | | | | | |
| % Moisture | 6.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-28 @ 1' (0A29007-50) Soil | | | | | | | | | | |
| % Moisture | 15.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |

Permian Basin Environmental Lab, L.P.

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

General Chemistry Parameters by EPA / Standard Methods Permian Basin Environmental Lab, L.P.

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------|--------|-----|-----|-------|----------|---------|----------|----------|---------------|-------|
| S-29 Surface (0A29007-51) Soil | | | | | | | | | | |
| % Moisture | 9.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-29 @ 1' (0A29007-52) Soil | | | | | | | | | | |
| % Moisture | 15.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-30 Surface (0A29007-53) Soil | | | | | | | | | | |
| % Moisture | 7.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-30 @ 1' (0A29007-54) Soil | | | | | | | | | | |
| % Moisture | 23.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-31 Surface (0A29007-55) Soil | | | | | | | | | | |
| % Moisture | 8.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-31 @ 1' (0A29007-56) Soil | | | | | | | | | | |
| % Moisture | 13.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-32 Surface (0A29007-57) Soil | | | | | | | | | | |
| % Moisture | 3.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-32 @ 1' (0A29007-58) Soil | | | | | | | | | | |
| % Moisture | 15.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-33 Surface (0A29007-59) Soil | | | | | | | | | | |
| % Moisture | 4.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-33 @ 1' (0A29007-60) Soil | | | | | | | | | | |
| % Moisture | 16.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |

Permian Basin Environmental Lab, L.P.

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------|--------|-----|-----|-------|----------|---------|----------|----------|---------------|-------|
| S-34 Surface (0A29007-61) Soil | | | | | | | | | | |
| % Moisture | 9.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-34 @ 1' (0A29007-62) Soil | | | | | | | | | | |
| % Moisture | 18.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-35 Surface (0A29007-63) Soil | | | | | | | | | | |
| % Moisture | 7.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-35 @ 1' (0A29007-64) Soil | | | | | | | | | | |
| % Moisture | 19.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-36 Surface (0A29007-65) Soil | | | | | | | | | | |
| % Moisture | 6.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |
| S-36 @ 1' (0A29007-66) Soil | | | | | | | | | | |
| % Moisture | 11.0 | | 0.1 | % | 1 | P0A3003 | 01/30/20 | 01/30/20 | ASTM D2216 | |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M Permian Basin Environmental Lab, L.P.

| | Result | SQL | MQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------------|--------|-----|------|-----------|----------|--------|----------|----------|--------|-------|
| S-26 Surface (0A29007-45) Soil | | | | | | | | | | |
| Total Petroleum Hydrocarbon C6-C35 | 304 | | 29.8 | mg/kg dry | 1 | [CALC] | 02/11/20 | 02/11/20 | calc | |
| S-26 @ 1' (0A29007-46) Soil | | | | | | | | | | |
| Total Petroleum Hydrocarbon C6-C35 | 35.7 | | 28.1 | mg/kg dry | 1 | [CALC] | 02/11/20 | 02/11/20 | calc | |
| S-29 Surface (0A29007-51) Soil | | | | | | | | | | |
| Total Petroleum Hydrocarbon C6-C35 | 207 | | 27.5 | mg/kg dry | 1 | [CALC] | 02/11/20 | 02/14/20 | calc | |
| S-29 @ 1' (0A29007-52) Soil | | | | | | | | | | |
| Total Petroleum Hydrocarbon C6-C35 | <29.4 | | 29.4 | mg/kg dry | 1 | [CALC] | 02/11/20 | 02/11/20 | calc | |
| S-32 Surface (0A29007-57) Soil | | | | | | | | | | |
| Total Petroleum Hydrocarbon C6-C35 | 196 | | 25.8 | mg/kg dry | 1 | [CALC] | 02/11/20 | 02/11/20 | calc | |
| S-32 @ 1' (0A29007-58) Soil | | | | | | | | | | |
| Total Petroleum Hydrocarbon C6-C35 | <29.4 | | 29.4 | mg/kg dry | 1 | [CALC] | 02/11/20 | 02/11/20 | calc | |
| S-34 Surface (0A29007-61) Soil | | | | | | | | | | |
| Total Petroleum Hydrocarbon C6-C35 | 750 | | 27.5 | mg/kg dry | 1 | [CALC] | 02/11/20 | 02/11/20 | calc | |
| S-34 @ 1' (0A29007-62) Soil | | | | | | | | | | |
| Total Petroleum Hydrocarbon C6-C35 | 99.8 | _ | 30.5 | mg/kg dry | 1 | [CALC] | 02/11/20 | 02/11/20 | calc | _ |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

| Analyte | Result | MQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------|-------------|-----------|----------------|------------------|----------|----------------|-------|--------------|-------|
| Batch P0B1801 - *** DEFAULT PREP *** | | | | Analyst:vII | ETROHN | | | | | |
| Blank (P0B1801-BLK1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | ND | 10.0 | mg/kg wet | • | • | | | | | |
| LCS (P0B1801-BS1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 411 | 10.0 | mg/kg wet | 400 | | 103 | 80-120 | | | |
| LCS Dup (P0B1801-BSD1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 413 | 10.0 | mg/kg wet | 400 | • | 103 | 80-120 | 0.516 | 20 | |
| Calibration Blank (P0B1801-CCB1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 0.495 | | mg/kg wet | • | • | | | | | |
| Calibration Blank (P0B1801-CCB2) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 0.406 | | mg/kg wet | • | • | | | | | |
| Calibration Check (P0B1801-CCV1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 19.7 | | mg/kg | 20.0 | | 98.4 | 0-200 | | | |
| Calibration Check (P0B1801-CCV2) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 20.1 | | mg/kg | 20.0 | | 101 | 0-200 | | | |
| Matrix Spike (P0B1801-MS1) | Sour | ce: 0A29007 | -01RE1 | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 11800 | 54.3 | mg/kg dry | 1090 | 10700 | 102 | 80-120 | | | |
| Matrix Spike (P0B1801-MS2) | Sour | ce: 0A29007 | '-11RE1 | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 1760 | 10.8 | mg/kg dry | 108 | 1270 | 459 | 80-120 | | | QM-07 |
| Matrix Spike Dup (P0B1801-MSD1) | Sour | ce: 0A29007 | '-01RE1 | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 11900 | | mg/kg dry | 1090 | 10700 | 107 | 80-120 | 0.439 | 20 | |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

| Analyte | Result | MQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------|-------------|-----------|----------------|------------------|-------------|----------------|-------|--------------|-------|
| Batch P0B1801 - *** DEFAULT PREP *** | | | | Analyst: | ETROHN | | | | | |
| Matrix Spike Dup (P0B1801-MSD2) | Sour | ce: 0A29007 | 7-11RE1 | Prepared & | & Analyzed: | 02/18/20 | | | | |
| Chloride | 1110 | 10.8 | mg/kg dry | 108 | 1270 | NR | 80-120 | 45.2 | 20 | QM-07 |
| Batch P0B1802 - *** DEFAULT PREP *** | | | | Analyst: | BB | | | | | |
| Blank (P0B1802-BLK1) | | | | Prepared & | & Analyzed: | 02/18/20 | | | | |
| Chloride | 2.97 | 1.00 | mg/kg wet | | | | | | | |
| LCS (P0B1802-BS1) | | | | Prepared & | & Analyzed: | 02/18/20 | | | | |
| Chloride | 421 | 1.00 | mg/kg wet | 400 | | 105 | 80-120 | | | |
| LCS Dup (P0B1802-BSD1) | | | | Prepared & | & Analyzed: | 02/18/20 | | | | |
| Chloride | 410 | 1.00 | mg/kg wet | 400 | | 103 | 80-120 | 2.52 | 20 | |
| Calibration Check (P0B1802-CCV1) | | | | Prepared & | & Analyzed: | 02/18/20 | | | | |
| Chloride | 20.2 | | mg/kg | 20.0 | | 101 | 0-200 | | | |
| Calibration Check (P0B1802-CCV2) | | | | Prepared & | & Analyzed: | 02/18/20 | | | | |
| Chloride | 20.4 | | mg/kg | 20.0 | | 102 | 0-200 | | | |
| Matrix Spike (P0B1802-MS1) | Sour | ce: 0A29007 | 7-21RE1 | Prepared & | & Analyzed: | 02/18/20 | | | | |
| Chloride | 19800 | 27.5 | mg/kg dry | 2750 | 16300 | 126 | 80-120 | | | QM-07 |
| Matrix Spike (P0B1802-MS2) | Sour | ce: 0A29007 | 7-31RE1 | Prepared: | 02/18/20 A | nalyzed: 02 | /19/20 | | | |
| Chloride | 8930 | 10.9 | mg/kg dry | 1090 | 7900 | 94.6 | 80-120 | | | |
| Matrix Spike Dup (P0B1802-MSD1) | Sour | ce: 0A29007 | 7-21RE1 | Prepared & | & Analyzed: | 02/18/20 | | | | |
| Chloride | 19600 | 27.5 | mg/kg dry | 2750 | 16300 | 121 | 80-120 | 0.669 | 20 | QM-07 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

| | | | | Spike | Source | | %REC | | RPD | |
|--------------------------------------|--------|---------------|-----------|--------------|-------------|-------------|--------|-------|-------|-------|
| Analyte | Result | MQL | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P0B1802 - *** DEFAULT PREP *** | | | | Analyst: //I | ETROHN | | | | | |
| Matrix Spike Dup (P0B1802-MSD2) | Sou | urce: 0A29007 | '-31RE1 | Prepared: (|)2/18/20 At | nalyzed: 02 | /19/20 | | | |
| Chloride | 8900 | 10.9 | mg/kg dry | 1090 | 7900 | 92.2 | 80-120 | 0.289 | 20 | |
| Batch P0B1803 - *** DEFAULT PREP *** | | | | Analyst:√I | ETROHN | | | | | |
| Blank (P0B1803-BLK1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | ND | 1.00 | mg/kg wet | | | | | | | |
| LCS (P0B1803-BS1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 453 | 1.00 | mg/kg wet | 400 | | 113 | 80-120 | | | |
| LCS Dup (P0B1803-BSD1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 452 | 1.00 | mg/kg wet | 400 | | 113 | 80-120 | 0.292 | 20 | |
| Calibration Blank (P0B1803-CCB1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 0.0150 | | mg/kg wet | • | | | | | | |
| Calibration Blank (P0B1803-CCB2) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 0.0180 | | mg/kg wet | * | | | | | | |
| Calibration Check (P0B1803-CCV1) | | | | Prepared & | : Analyzed: | 02/18/20 | | | | |
| Chloride | 20.0 | | mg/kg | 20.0 | · | 99.8 | 0-200 | | | |
| Calibration Check (P0B1803-CCV2) | | | | Prepared & | : Analyzed: | 02/18/20 | | | | |
| Chloride | 19.8 | | mg/kg | 20.0 | · | 99.0 | 0-200 | | | |
| Matrix Spike (P0B1803-MS1) | Soi | urce: 0A29007 | -41RE1 | Prepared & | : Analyzed: | 02/18/20 | | | | |
| Chloride | 18700 | 26.9 | mg/kg dry | 2690 | 15900 | 105 | 80-120 | | | |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

| Analyte | Result | MQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------|------------|-----------|----------------|------------------|-------------|----------------|--------|--------------|-------|
| Batch P0B1803 - *** DEFAULT PREP *** | | | | Analyst://I | ETROHN | | | | | |
| Matrix Spike (P0B1803-MS2) | Sourc | e: 0A29007 | -51RE1 | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 17500 | 27.5 | mg/kg dry | 2750 | 14400 | 114 | 80-120 | | | |
| Matrix Spike Dup (P0B1803-MSD1) | Sourc | e: 0A29007 | -41RE1 | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 18800 | 26.9 | mg/kg dry | 2690 | 15900 | 106 | 80-120 | 0.199 | 20 | |
| Matrix Spike Dup (P0B1803-MSD2) | Sourc | e: 0A29007 | -51RE1 | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 17500 | 27.5 | mg/kg dry | 2750 | 14400 | 113 | 80-120 | 0.0487 | 20 | |
| Batch P0B1804 - *** DEFAULT PREP *** | | | | Analyst:√I | ETROHN | | | | | |
| Blank (P0B1804-BLK1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | ND | 1.00 | mg/kg wet | | | | | | | |
| LCS (P0B1804-BS1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 457 | 1.00 | mg/kg wet | 400 | | 114 | 80-120 | | | |
| LCS Dup (P0B1804-BSD1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 455 | 1.00 | mg/kg wet | 400 | | 114 | 80-120 | 0.439 | 20 | |
| Calibration Blank (P0B1804-CCB1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 0.0190 | | mg/kg wet | • | | | | | | |
| Calibration Check (P0B1804-CCV1) | | | | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 20.3 | · | mg/kg | 20.0 | · | 101 | 0-200 | · | · | · |
| Calibration Check (P0B1804-CCV2) | | | | Prepared: (| 02/18/20 Ar | nalyzed: 02 | /19/20 | | | |
| Chloride | 19.9 | | mg/kg | 20.0 | | 99.6 | 0-200 | | | |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

| Analyte | Result | MQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-----------|----------|-----------|----------------|------------------|----------|----------------|-------|--------------|-------|
| Batch P0B1804 - *** DEFAULT PREP *** | | | | Analyst:√IE | TROHN | | | | | |
| Matrix Spike (P0B1804-MS1) | Source: (| 0A29007- | 61RE1 | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 8460 | 11.0 | mg/kg dry | 1100 | 7470 | 89.6 | 80-120 | | | |
| Matrix Spike Dup (P0B1804-MSD1) | Source: (| 0A29007- | 61RE1 | Prepared & | Analyzed: | 02/18/20 | | | | |
| Chloride | 8490 | 11.0 | mg/kg dry | 1100 | 7470 | 92.6 | 80-120 | 0.387 | 20 | |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

| | D. I | Mor | TT ' | Spike | Source | 0/DEC | %REC | DDD | RPD | NT 4 |
|--|--------|---------|-----------|------------|-----------|----------|--------|------|-------|-------|
| Analyte | Result | MQL | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P0B1004 - General Preparation (GC) | | | | Analyst: I | BB/JLB | | | | | |
| Blank (P0B1004-BLK1) | | | | Prepared & | Analyzed: | 02/10/20 | | | | |
| Benzene | ND | 0.00100 | mg/kg wet | | | | | | | |
| Toluene | ND | 0.00100 | " | | | | | | | |
| Ethylbenzene | ND | 0.00100 | " | | | | | | | |
| Xylene (p/m) | ND | 0.00200 | " | | | | | | | |
| Xylene (o) | ND | 0.00100 | " | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.117 | | " | 0.120 | | 97.4 | 75-125 | | | |
| Surrogate: 1,4-Difluorobenzene | 0.113 | | " | 0.120 | | 94.6 | 75-125 | | | |
| LCS (P0B1004-BS1) | | | | Prepared & | Analyzed: | 02/10/20 | | | | |
| Benzene | 0.102 | 0.00100 | mg/kg wet | 0.100 | | 102 | 70-130 | | | |
| Toluene | 0.0998 | 0.00100 | " | 0.100 | | 99.8 | 70-130 | | | |
| Ethylbenzene | 0.105 | 0.00100 | " | 0.100 | | 105 | 70-130 | | | |
| Xylene (p/m) | 0.197 | 0.00200 | " | 0.200 | | 98.7 | 70-130 | | | |
| Xylene (o) | 0.109 | 0.00100 | " | 0.100 | | 109 | 70-130 | | | |
| Surrogate: 1,4-Difluorobenzene | 0.118 | | " | 0.120 | | 98.3 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.123 | | " | 0.120 | | 102 | 75-125 | | | |
| LCS Dup (P0B1004-BSD1) | | | | Prepared & | Analyzed: | 02/10/20 | | | | |
| Benzene | 0.104 | 0.00100 | mg/kg wet | 0.100 | | 104 | 70-130 | 2.19 | 20 | |
| Toluene | 0.0980 | 0.00100 | " | 0.100 | | 98.0 | 70-130 | 1.82 | 20 | |
| Ethylbenzene | 0.102 | 0.00100 | " | 0.100 | | 102 | 70-130 | 2.70 | 20 | |
| Xylene (p/m) | 0.194 | 0.00200 | " | 0.200 | | 97.2 | 70-130 | 1.52 | 20 | |
| Xylene (o) | 0.108 | 0.00100 | " | 0.100 | | 108 | 70-130 | 1.02 | 20 | |
| Surrogate: 1,4-Difluorobenzene | 0.117 | | " | 0.120 | | 97.2 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.121 | | " | 0.120 | | 100 | 75-125 | | | |
| Calibration Blank (P0B1004-CCB1) | | | | Prepared & | Analyzed: | 02/10/20 | | | | |
| Benzene | 0.00 | | mg/kg wet | • | - | | | | | |
| Toluene | 0.00 | | " | | | | | | | |
| Ethylbenzene | 0.00 | | " | | | | | | | |
| Xylene (p/m) | 0.00 | | " | | | | | | | |
| Xylene (o) | 0.00 | | " | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.115 | | " | 0.120 | | 96.0 | 75-125 | | | |
| Surrogate: 1,4-Difluorobenzene | 0.112 | | " | 0.120 | | 93.0 | 75-125 | | | |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

Organics by GC - Quality Control

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

| | | | | Spike | Source | | %REC | | RPD | |
|---|--------|---------|-----------|-------------|-------------|-------------|--------|-----|-------|-------|
| Analyte | Result | MQL | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P0B1004 - General Preparation (GC) | | | | Analyst: I | BB/JLB | | | | | |
| ch P0B1004 - General Preparation (GC) Dration Blank (P0B1004-CCB2) Ene Ene Ene Ene Ene Ene Ene Ene Ene En | | | | Prepared: (|)2/10/20 At | nalyzed: 02 | /11/20 | | | |
| Benzene | 0.00 | | mg/kg wet | | | | | | | |
| Toluene | 0.00 | | " | | | | | | | |
| Ethylbenzene | 0.00 | | " | | | | | | | |
| Xylene (p/m) | 0.00 | | " | | | | | | | |
| Xylene (o) | 0.00 | | " | | | | | | | |
| Surrogate: 1,4-Difluorobenzene | 0.113 | | " | 0.120 | | 94.4 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.116 | | " | 0.120 | | 97.0 | 75-125 | | | |
| Calibration Check (P0B1004-CCV1) | | | | Prepared & | Analyzed: | 02/10/20 | | | | |
| Benzene | 0.101 | 0.00100 | mg/kg wet | 0.100 | | 101 | 80-120 | | | |
| Toluene | 0.0945 | 0.00100 | " | 0.100 | | 94.5 | 80-120 | | | |
| Ethylbenzene | 0.0960 | 0.00100 | " | 0.100 | | 96.0 | 80-120 | | | |
| Xylene (p/m) | 0.185 | 0.00200 | " | 0.200 | | 92.5 | 80-120 | | | |
| Xylene (o) | 0.104 | 0.00100 | " | 0.100 | | 104 | 80-120 | | | |
| Surrogate: 1,4-Difluorobenzene | 0.117 | | " | 0.120 | | 97.7 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.123 | | " | 0.120 | | 103 | 75-125 | | | |
| Calibration Check (P0B1004-CCV2) | | | | Prepared: (| 02/10/20 At | nalyzed: 02 | /11/20 | | | |
| Benzene | 0.0986 | 0.00100 | mg/kg wet | 0.100 | | 98.6 | 80-120 | | | |
| Toluene | 0.0916 | 0.00100 | " | 0.100 | | 91.6 | 80-120 | | | |
| Ethylbenzene | 0.0910 | 0.00100 | " | 0.100 | | 91.0 | 80-120 | | | |
| Xylene (p/m) | 0.177 | 0.00200 | " | 0.200 | | 88.6 | 80-120 | | | |
| Xylene (o) | 0.0996 | 0.00100 | " | 0.100 | | 99.6 | 80-120 | | | |
| Surrogate: 1,4-Difluorobenzene | 0.116 | | " | 0.120 | | 96.5 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.120 | | " | 0.120 | | 99.9 | 75-125 | | | |
| Calibration Check (P0B1004-CCV3) | | | | Prepared: (| 02/10/20 At | nalyzed: 02 | /11/20 | | | |
| Benzene | 0.0974 | 0.00100 | mg/kg wet | 0.100 | | 97.4 | 80-120 | | | |
| Toluene | 0.0914 | 0.00100 | " | 0.100 | | 91.4 | 80-120 | | | |
| Ethylbenzene | 0.0918 | 0.00100 | " | 0.100 | | 91.8 | 80-120 | | | |
| Xylene (p/m) | 0.175 | 0.00200 | " | 0.200 | | 87.6 | 80-120 | | | |
| Xylene (o) | 0.0989 | 0.00100 | " | 0.100 | | 98.9 | 80-120 | | | |
| Surrogate: 1,4-Difluorobenzene | 0.115 | | " | 0.120 | | 96.1 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.120 | | " | 0.120 | | 100 | 75-125 | | | |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Midland TX, 79707 Project Number: [none]

Project Manager: Aaron Pachlhofer

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

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

| Analyte | Result | MQL | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|--|--------|--------------|-----------|-------------|------------|-------------|--------|------|-------|-------|
| Batch P0B1004 - General Preparation (GC) | | | | Analyst: I | BB/JLB | | | | | |
| Matrix Spike (P0B1004-MS1) | Sou | rce: 0B07010 | -21 | Prepared: (| 02/10/20 A | nalyzed: 02 | /11/20 | | | |
| Benzene | 0.0700 | 0.00104 | mg/kg dry | 0.104 | ND | 67.2 | 80-120 | | | QM-07 |
| Toluene | 0.0615 | 0.00104 | " | 0.104 | ND | 59.0 | 80-120 | | | QM-07 |
| Ethylbenzene | 0.0731 | 0.00104 | " | 0.104 | ND | 70.2 | 80-120 | | | QM-07 |
| Xylene (p/m) | 0.118 | 0.00208 | " | 0.208 | ND | 56.5 | 80-120 | | | QM-07 |
| Xylene (o) | 0.0599 | 0.00104 | " | 0.104 | ND | 57.5 | 80-120 | | | QM-07 |
| Surrogate: 1,4-Difluorobenzene | 0.123 | | " | 0.125 | | 98.6 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.131 | | " | 0.125 | | 104 | 75-125 | | | |
| Matrix Spike Dup (P0B1004-MSD1) | Sou | rce: 0B07010 | -21 | Prepared: (| 02/10/20 A | nalyzed: 02 | /11/20 | | | |
| Benzene | 0.0723 | 0.00104 | mg/kg dry | 0.104 | ND | 69.4 | 80-120 | 3.19 | 20 | QM-07 |
| Toluene | 0.0578 | 0.00104 | " | 0.104 | ND | 55.5 | 80-120 | 6.18 | 20 | QM-07 |
| Ethylbenzene | 0.0673 | 0.00104 | " | 0.104 | ND | 64.6 | 80-120 | 8.25 | 20 | QM-07 |
| Xylene (p/m) | 0.107 | 0.00208 | " | 0.208 | ND | 51.1 | 80-120 | 9.95 | 20 | QM-07 |
| Xylene (o) | 0.0558 | 0.00104 | " | 0.104 | ND | 53.6 | 80-120 | 7.09 | 20 | QM-07 |
| Surrogate: 4-Bromofluorobenzene | 0.126 | | " | 0.125 | | 101 | 75-125 | | | |
| Surrogate: 1,4-Difluorobenzene | 0.123 | | " | 0.125 | | 98.1 | 75-125 | | | |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

| | | | | Spike | Source | | %REC | | RPD | |
|----------------------------------|--------|------|-----------|------------|-------------|----------|--------|------|-------|-------|
| Analyte | Result | MQL | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P0B1107 - TX 1005 | | | | Analyst: | bb/sg | | | | | |
| Blank (P0B1107-BLK1) | | | | Prepared & | k Analyzed: | 02/11/20 | | | | |
| C6-C12 | ND | 25.0 | mg/kg wet | | | | | | | |
| >C12-C28 | ND | 25.0 | " | | | | | | | |
| >C28-C35 | ND | 25.0 | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 95.8 | | " | 100 | | 95.8 | 70-130 | | | |
| Surrogate: o-Terphenyl | 55.3 | | " | 50.0 | | 111 | 70-130 | | | |
| LCS (P0B1107-BS1) | | | | Prepared & | ն Analyzed: | 02/11/20 | | | | |
| C6-C12 | 955 | 25.0 | mg/kg wet | 1000 | | 95.5 | 75-125 | | | |
| >C12-C28 | 1160 | 25.0 | " | 1000 | | 116 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 104 | | " | 100 | | 104 | 70-130 | | | |
| Surrogate: o-Terphenyl | 50.7 | | " | 50.0 | | 101 | 70-130 | | | |
| LCS Dup (P0B1107-BSD1) | | | | Prepared & | ն Analyzed: | 02/11/20 | | | | |
| C6-C12 | 885 | 25.0 | mg/kg wet | 1000 | | 88.5 | 75-125 | 7.64 | 20 | |
| >C12-C28 | 1090 | 25.0 | " | 1000 | | 109 | 75-125 | 5.96 | 20 | |
| Surrogate: 1-Chlorooctane | 107 | | " | 100 | | 107 | 70-130 | | | |
| Surrogate: o-Terphenyl | 47.4 | | " | 50.0 | | 94.8 | 70-130 | | | |
| Calibration Blank (P0B1107-CCB1) | | | | Prepared & | k Analyzed: | 02/11/20 | | | | |
| C6-C12 | 18.8 | | mg/kg wet | | | | | | | |
| >C12-C28 | 6.30 | | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 98.7 | | " | 100 | | 98.7 | 70-130 | | | |
| Surrogate: o-Terphenyl | 57.5 | | " | 50.0 | | 115 | 70-130 | | | |
| Calibration Blank (P0B1107-CCB2) | | | | Prepared & | k Analyzed: | 02/11/20 | | | | |
| C6-C12 | 16.7 | | mg/kg wet | - | • | | | | | |
| >C12-C28 | 16.0 | | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 88.6 | | " | 100 | | 88.6 | 70-130 | | | |
| Surrogate: o-Terphenyl | 51.1 | | " | 50.0 | | 102 | 70-130 | | | |

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | MQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------|--------|------------|-----------|----------------|------------------|-------------|----------------|------|--------------|-------|
| Batch P0B1107 - TX 1005 | | | | Analyst: | bb/sg | | | | | |
| Calibration Check (P0B1107-CCV1) | | | | | & Analyzed: | 02/11/20 | | | | |
| C6-C12 | 532 | 25.0 | mg/kg wet | 500 | | 106 | 85-115 | | | |
| >C12-C28 | 556 | 25.0 | " | 500 | | 111 | 85-115 | | | |
| Surrogate: 1-Chlorooctane | 114 | | " | 100 | | 114 | 70-130 | | | |
| Surrogate: o-Terphenyl | 56.2 | | " | 50.0 | | 112 | 70-130 | | | |
| Calibration Check (P0B1107-CCV2) | | | | Prepared & | & Analyzed: | 02/11/20 | | | | |
| C6-C12 | 443 | 25.0 | mg/kg wet | 500 | | 88.7 | 85-115 | | | |
| >C12-C28 | 493 | 25.0 | " | 500 | | 98.6 | 85-115 | | | |
| Surrogate: 1-Chlorooctane | 99.1 | | " | 100 | | 99.1 | 70-130 | | | |
| Surrogate: o-Terphenyl | 48.0 | | " | 50.0 | | 96.1 | 70-130 | | | |
| Calibration Check (P0B1107-CCV3) | | | | Prepared: | 02/11/20 Aı | nalyzed: 02 | /14/20 | | | |
| C6-C12 | ND | 25.0 | mg/kg wet | 500 | | | 85-115 | | | |
| >C12-C28 | ND | 25.0 | " | 500 | | | 85-115 | | | |
| Surrogate: 1-Chlorooctane | 0.00 | | " | 100 | | | 70-130 | | | |
| Surrogate: o-Terphenyl | 0.00 | | " | 50.0 | | | 70-130 | | | |
| Matrix Spike (P0B1107-MS1) | Sourc | e: 0B07004 | I-03 | Prepared & | & Analyzed: | 02/11/20 | | | | |
| C6-C12 | 1030 | 25.8 | mg/kg dry | 1030 | 16.5 | 98.0 | 75-125 | | | |
| >C12-C28 | 1030 | 25.8 | " | 1030 | 120 | 88.2 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 126 | | " | 103 | | 122 | 70-130 | | | |
| Surrogate: o-Terphenyl | 56.2 | | " | 51.5 | | 109 | 70-130 | | | |
| Matrix Spike Dup (P0B1107-MSD1) | Sourc | e: 0B07004 | 1-03 | Prepared & | & Analyzed: | 02/11/20 | | | | |
| C6-C12 | 1090 | 25.8 | mg/kg dry | 1030 | 16.5 | 104 | 75-125 | 6.18 | 20 | |
| >C12-C28 | 1140 | 25.8 | " | 1030 | 120 | 99.3 | 75-125 | 11.8 | 20 | |
| Surrogate: 1-Chlorooctane | 103 | | " | 103 | | 100 | 70-130 | | | |
| Surrogate: o-Terphenyl | 57.8 | | " | 51.5 | | 112 | 70-130 | | | |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

| Analyte | Result | MQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------|----------------|-------|----------------|------------------|----------|----------------|------|--------------|-------|
| Batch P0A3003 - *** DEFAULT PREP *** | | | | Analyst: | KC | | | | | |
| Blank (P0A3003-BLK1) | | | | Prepared & | & Analyzed: | 01/30/20 | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | |
| Duplicate (P0A3003-DUP1) | Source | : 0A29007- | 23 | Prepared & | & Analyzed: | 01/30/20 | | | | |
| % Moisture | 7.0 | 0.1 | % | | 6.0 | | | 15.4 | 20 | |
| Duplicate (P0A3003-DUP2) | Source | ce: 0A29007-50 | | Prepared & | & Analyzed: | 01/30/20 | | | | |
| % Moisture | 15.0 | 0.1 | % | | 15.0 | | | 0.00 | 20 | |
| Duplicate (P0A3003-DUP3) | Source | : 0A29010- | 03 | Prepared & | & Analyzed: | 01/30/20 | | | | |
| % Moisture | 11.0 | 0.1 | % | | 10.0 | | | 9.52 | 20 | |
| Duplicate (P0A3003-DUP4) | Source | : 0A29012- | 01 | Prepared & | & Analyzed: | 01/30/20 | | | | |
| % Moisture | 7.0 | 0.1 | % | · | 8.0 | | | 13.3 | 20 | |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Notes and Definitions

ROI Received on Ice

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

recovery.

BULK Samples received in Bulk soil containers

MQL Method Quantitation Limit

SQL Sample Quantitation Limit

UMQL Unadjusted MQL = MQL / Dilution

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Sample

MS Matrix Spike

Dup Duplicate

Brent Barron, Laboratory Director/Corp. Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Page 34 of 34

Rage 68 of 109 Received by OCD: 7/10/2020 10:12:15 AM TAT bisbrist NPDES RUST (Pre-Schedule) 24, 48, 72 hrs Blycol Phone: 432-686-7235 TRRP .M.Я.О.И RCI VOCs Free of Headspace? Project Name: Denton No. 5 SWD BIEX 8051B/2030 of BIEX 8500 Laboratory Comments: Semivolatiles Project Loc: Lea County, NM Standard Metals: As Ag Ba Cd Cr Pb Hg Se SAR / ESP / CEC FOTAL × × \times \times Anions (CI, SO4, Alkalinity) Report Format: X PO # Cations (Ca, Mg, Na, K) Project #: 00,'2 9001 XT 9001 X.L :HdJ īme 9108 M2108 1.814 :HdJ SV S ഗ S S S S ഗ M=Drinking Water SL=Studge Date Date Permian Basin Environmental Lab, LP Offier (Specify) 9noN 10014 S. County Road 1213 _CO_SS_SBN HOBN Midland, Texas 79706 aaronp@forl.com OS^zH HCi 432-687-1570 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST ⁶ONH × \times Fotal #, of Containers benetilii blaj e-mail: Fax No: 97.6 4.30 9 9.05 926 4.01 0.15 9,10 89. 1. 1. I Time Sampled 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 Received by: Received by: Date Sampled 200 Ending Depth lime me Beginning Depth Fasken Oil and Ranch, Ltd 20/20 Company Address: 6101 Holiday Hill Road Date Midland, TX 79707 Aaron Pachihofer 432-687-1777 S-4 Surface S-5 Surface S-6 Surface S-8 Surface FIELD CODE S-7 Surface S-5 1' S-6 1' S-7 1' S-4 1 S-8 1 Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions inquished by: ron Pachlhofer nquished by: inquished by ORDER# (lab asu del) # 8A 3 Page 35 of 44

Page 69 of 109 Received by OCD: 7/10/2020,10:12:15 AM TAT brabnat2 ☐ NPDES SUSH TAT (Pre-Schedule) 24, 48, 72 hrs Blycol N.A.A.M. Phone: 432-686-7235 TRRP lэЫ BTEX 8021B/6030 or BTEX 8260 Project Name: Denton No. 5 SWD eminoraries Analyze Project Loc: Lea County, NM Standard Netala: As Ag Ba Cd Cr Pb Hg Se SAR / ESP / CEC \times |X|× \times × × Puious (CI' SO4' ∀lkalinity) × ₩ 6 Cations (Ca. Mg, Na. K) Project #: Report Format: ية أو 9001 XT 2001 XT Hdl Time Time :HdJ M2 108 9019 eldsto9-noN=9y 2 ഗ ഗ S ഗ ഗ ഗ S ഗ ഗ <u>.</u>. Date Date Permian Basin Environmental Lab, LP Other (Specify) None SO2S2BN 10014 S. County Road 1213 HOBN Midland, Texas 79706 aaronp@forl.com OS^zH HCI 432-687-1570 [€]ONH CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST × × \times \times \times Total #. of Containers ield Filtered e-mail: Fax No: 10:04 9.345 9:54 10.15 24.6 9:15 10:10 4.40 9,39 03.50 Time Sampled 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 Received by: Received by: Date Sampled Ending Depth Time Beginning Depth Fasken Oil and Ranch, Ltd Date 6101 Holiday Hill Road Midland, TX 79707 Aaron Pachlhofer 432-687-1777 S-13 Surface S-11 Surface S-12 Surface S-10 Surface S-9 Surface FIELD CODE S-11 11: S-12 1' S-10 1' S-13 1¹ 5-91 Company Address: Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: elinquished by: aron Pachlhofer inquished by: inquished by: ORDER#: J-8 5 2 (Vino esu del) # 84. Page 36 of 44

| | OQ1 | <i>v.</i> // | 10/20 | 020 I _I | | 13 A. | | 14 27 ,81 | AT (Pre-Schedule) 24. TAT brat | | × | × | × | × | × | × | × | × | × | X | zz | 7 22 2 | N Sta | e |
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| Phone: 432-686-7235 | - 1 | j | - 1 | J | TRRP | | | Ī | | RCI | \neg | | | | | | | | | | | (S) | ĮĒ | |
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| an E S. | <u> </u> | | | | 432-687-1570 | aaronp@forl.com | | L | <u> </u> | əol | <u>~</u> | × | × | × | × | × | × | × | × | × | | | | |
| Permian Basin Environmental Lab, LP 10014 S. County Road 1213 Midland. Texas 79706 | | | | | [1 | 186 | 1 | | of Containers | | | | | | | | | _ | | | | | | 16 |
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| | | Fasken Oil and Ranch, Ltd | Company Address: 6101 Holiday Hill Road | 7. | | 1 | | | | | | | | • { | | | | | | | | Date 129/20 | Date | Date |
| | Aaron Pachihofer | Ind F | 則 | Midland, TX 79707 | - | | 1 | | | | | | | | | | | | | 1 | | " | <u> </u> | \perp |
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP 10014 S. County Road 1213 Midland, Texas 79706

Phone: 432-686-7235

Received by OCD: 7(10/2020 10:12:15 AM

TAT brishnet2 ☐ NPDES TAT HZUS (Pre-Schedule) 24, 48, 72 has Glycol TRRP N.A.O.R.M. 3Cl Project Name: Denton No. 5 SWD BLEX 8051 B/2030 of BLEX 8560 selitatovime2 Project Loc: Lea County, NM Report Format: X Standard As Ag Ba Cd Cr Pb Hg Se SAR / ESP / CEC TCLP: × \times × × Anions (CI, SO4, Alkalinity) × PO #: Cations (Ca, Mg, Na, K) Project #: 9001 XT **TX 1005** 8012W 36108 Hd. S S S ഗ ഗ ഗ က ഗ S GM = Groundwater S=Soil/Solid Other (Specify) Na₂S₂O₃ HOāN aaronp@forl.com ^{*}OS^zH HCL 432-687-1570 [€]ONH × × × × × əo Total #, of Containers $\overline{\mathcal{Q}}$ Š Field Fiftered S. 4.8. e-mail: Fax No: 14.53 13:30 13.20 3.05 カカ・ナー 13.4 13.93 13.14 Time Sampled 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 Date Sampled Ending Depth Beginning Depth Fasken Oil and Ranch, Ltd Company Address: 6101 Holiday Hill Road Midland, TX 79707 Aaron Pachlhofer 432-687-1777 S-19 Surface S-20 Surface S-21 Surface S-22 Surface S-23 Surface FIELD CODE S-22 1' S-20 11 S-21 1' S-23 1' S-19 1 מאששע ש Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions ORDER #: 36 33 8 7 8 38 32

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Page 38 of 44

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP 10014 S. County Road 1213

Phone: 432-686-7235

Midland, Texas 79706

Received by OCD: 7/10/2020,10:12:15 AM Page 72 of 109 Standard TAT □ NPDES SUSH TAT (Pre-Schedule) 24, 48, 72 hrs Jooyle .M.A.O.M TRRP RCI **VOCs Free of Headspace?** າ ຜູ **ໄ** BTEX 80218/6030 or BTEX 8280 Project Name: Denton No. 5 SWD Laboratory Comments: Sample Hand Delivered Project Loc: Lea County, NM Standard Metals: As Ag Ba Cd Cr Pb Hg Se PB \ ESb \ CEC 1000 × × × \times × × × Anions (CI, SO4, Alkalinity) × Report Format: X ₽0 #: Cations (Ca, Mg, Na, K) Project #: 0.21 4X 1005 9001 XT fime 8012W 1.814 HdJ เดเกล B S ഗ ഗ ഗ Ø ഗ S ഗ CM = Ctonuqwatet 2=20||\20||q ور در Date Date Office (Specify) Na₂S₂O₃ ИаОН aaronp@forl.com os^zH HCI 432-687-1570 [€]ONH × × × × × × × otal #. of Containers Field Fittered Fax No: e-mail: 15.15 での 15 18 15:0 3,5 15:04 15:08 13:4기 13:53 15.05 Time Sampled 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 Received by: Received by Date Sampled Ending Depth Time Time Beginning Depth 24/20 Fasken Oil and Ranch, Ltd Date Date 6101 Holiday Hill Road Midland, TX 79707 Aaron Pachihofer 432-687-1777 S-28 Surface S-24 Surface S-26 Surface S-27 Surface S-25 Surface FIELD CODE S-27 1' S-25 1' S-28 11 S-27 1' S-24 1' Company Address: Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: elinquished by: aron Pachihofer linguished by: linquished by: ORDER#: lab use only 3 3 ¥ (Kjuo asn qei) # 847) Page 39 of 44

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| | Phone: 432-686-7235 | No. 5 SWD | | ty, NM | | ard TRRP | | Analyze For: | | etais: As Ag Ba Cd Cr Pb Hg emivolatiles Ct Ct | EE S | | | | | | | | | | Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? | Labels on containersi Custody seals on container(s) Custody seals on cooler(s) | nble Hand Delivered by Sample/Client Rep. ? | |
| | Ę | Project Name: Denton No. | oct #: | Project Loc: Lea County, NM | PO #: | at: X Standard | | TCLP: | · | ations (Ca, Mg, Na, K) nions (<u>Cl,</u> SO4, Alkalinity) AR / ESP / CEC | S × | × | × | × | × | × | × | × > | ×× | A CONTRACTOR OF THE PROPERTY O | Laboratory Comments: Sample Containers Infactive Containers Infaction | Labels on co Custody seal Custody sea | Sample Hand Delivered by Sampler/Client Re | |
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| ļ | Permian Basin Environmental Lab, LP 10014 S. County Road 1213 | lexas /9/00 | | | | 432-687-1570 | aaronp@forl.com | - | Preservation & # of Containers | | 1 | | | | | | | | | | | | | |
| | CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Permian Basi 10014 S. Cou | Midiand, | | | | | | | L | bitd Filtered is a Filtered is a factorization to Containers. | 70 917 01 | × | K X | <i>y</i> : | 3 × | <i>γ</i> | × × | | × | 3 | | | | |
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| L | CHAIN OF | lhofer | Fasken Oil and Ranch, Ltd | y Hill Road | 79707 | 77 / | 1 | | | | | | | | | - | | | | | | Date //23/20 | Date | |
| | \mathfrak{Z} | Aaron Pachlhofer | Fasken Oil a | ss: 6101 Holiday Hill Road | Midland, TX 79707 | 432-687-1777 | • | 7 | 2900 T | | FIELD CODE | S-29 1' | S-30 Surface | S-30 1' | S-31 Surface | S-31 1' | S-32 Surface | S-32 1' | S-33 Surface | S-33 1 | | | | |
| | | Project Manager: | Company Name | Company Address: | City/State/Zip: | Telephone No: | Sampler Signature: | | | | T C | | S | | S-S | | -Ç | | Ġ | | rctions: | y: fer | y: | |
| | | Proje | Com | Com | City/ | Tele | Sam | // Johnson many | OPDER# | eq ((sp nae ou)λ). | √1 | 29 | 23 | 54 | 52 | 26 | Б | 28 | 54 | 8 | Special Instructions: | alinquished by: Uaron Pachihofer | O elinquished by: | |

Page 73 of 109

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP 10014 S. County Road 1213

Phone: 432-686-7235

Received by OCD: 7/10/2020 10:12:15 AM TAT brabnat2 ☐ NPDES 3USH TAT (Pre-Schedule) 24, 48, 72 hrs Glycol □ TRRP M.A.O.M. VOCs Free of Headspace? Labels on contaments! Custody seals on contament Project Name: Denton No. 5 SWD BIEX 80318/2030 OLBIEX 8280 Project Loc: Lea County, NM Standard Netale: As Ag Ba Cd Cr Pb Hg Se TCLP: SAR / ESP / CEC × × Anions (Cl., SO4, Alkalinity) × Report Format: X PO #: Cations (Ca, Mg, Na, K) Project #: 1X 1005 HdJ 8001 XT 3G 1 2E MS108 1.814 Hdl AP=Non-Potable ഗ S ഗ S S ഗ GW = Groundwater S=Soil/Solid Date Οίμετ (Specify) Na₂S₂O₃ HOBN Midland, Texas 79706 aaronp@forl.com POS^ZH HCl 432-687-1570 HNO3 Total #. of Containers Filtered Fax No: e-mail: 14. 23 子名 14.35 15:45 14.40 4.40 Time Sampled 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 Received by: Date Sampled Ending Depth E B Beginning Depth Fasken Oil and Ranch, Ltd Company Address: 6101 Holiday Hill Road Midland, TX 79707 Aaron Pachihofer 432-687-1777 S-34 Surface S-35 Surface S-36 Surface FIELD CODE S-35 1 S-36 1' S-34 1 Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: linquished by: ron Pachlhofer ORDER# lab use only وو 9 10 10 (Vino ezu dei) # 8AJ

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24/20

| Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707 | Project: Denton NO.5 SWD Project Number: [none] Project Manager: Aaron Pachlhofer | Fax: 43-687-1570 |
|---|---|------------------|
| | | |

| Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707 | Project: Denton NO.5 SWD Project Number: [none] Project Manager: Aaron Pachlhofer | Fax: 43-687-1570 |
|---|---|------------------|
| | | |

| Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707 | Project: Denton NO.5 SWD Project Number: [none] Project Manager: Aaron Pachlhofer | Fax: 43-687-1570 |
|---|---|------------------|
| | | |

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Aaron Pachlhofer
Fasken Oil & Ranch, Ltd.
6101 Holiday Hill Road
Midland, TX 79707

Project: Denton NO.5 SWD
Project Number: [none]
Location: Lea County, NM

Lab Order Number: 0C03013



NELAP/TCEQ # T104704516-18-9

Report Date: 03/06/20

Fax: 43-687-1570

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|------------------|
| S-1a 6" | 0C03013-01 | Soil | 03/02/20 14:09 | 03-03-2020 12:00 |
| S-4a 6" | 0C03013-02 | Soil | 03/02/20 14:53 | 03-03-2020 12:00 |
| S-8a 6" | 0C03013-03 | Soil | 03/02/20 13:53 | 03-03-2020 12:00 |
| S-10a 6" | 0C03013-04 | Soil | 03/02/20 13:54 | 03-03-2020 12:00 |
| S-14a 6" | 0C03013-05 | Soil | 03/02/20 14:49 | 03-03-2020 12:00 |
| S-15a 6" | 0C03013-06 | Soil | 03/02/20 13:49 | 03-03-2020 12:00 |
| S-16a 6" | 0C03013-07 | Soil | 03/02/20 14:10 | 03-03-2020 12:00 |
| S-18a 6" | 0C03013-08 | Soil | 03/02/20 14:06 | 03-03-2020 12:00 |
| S-21a 6" | 0C03013-09 | Soil | 03/02/20 13:47 | 03-03-2020 12:00 |
| S-24a 6" | 0C03013-10 | Soil | 03/02/20 11:34 | 03-03-2020 12:00 |
| S-26a 6" | 0C03013-11 | Soil | 03/02/20 10:50 | 03-03-2020 12:00 |
| S-29a 6" | 0C03013-12 | Soil | 03/02/20 10:53 | 03-03-2020 12:00 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-1a 6" 0C03013-01 (Soil)

| Analyte | R Result | eporting Limit Units | Dilution | Batch | Prepared | Analyzed | Method | Notes | | | | | | |
|-----------------------------|---------------------------------------|-------------------------|----------|---------|----------------|----------------|------------|-------|--|--|--|--|--|--|
| | Permian Basin Environmental Lab, L.P. | | | | | | | | | | | | | |
| General Chemistry Pa | arameters by EPA / St | andard Method | ls | | | | | | | | | | | |
| Chloride | 1330 | 5.62 mg/kg dry | 5 | P0C0315 | 03/03/20 15:00 | 03/04/20 06:26 | EPA 300.0 | | | | | | | |
| % Moisture | 11.0 | 0.1 % | 1 | P0C0504 | 03/05/20 08:10 | 03/05/20 08:18 | ASTM D2216 | | | | | | | |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-4a 6" 0C03013-02 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 80.6 | 1.10 mg/kg dry | 1 | P0C0315 | 03/03/20 15:00 | 03/04/20 06:41 | EPA 300.0 |
|------------|------|----------------|---|---------|----------------|----------------|------------|
| % Moisture | 9.0 | 0.1 % | 1 | P0C0504 | 03/05/20 08:10 | 03/05/20 08:18 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-8a 6" 0C03013-03 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 5240 | 29.1 mg/kg dry | 25 | P0C0315 | 03/03/20 15:00 | 03/04/20 06:57 | EPA 300.0 |
|------------|------|----------------|----|---------|----------------|----------------|------------|
| % Moisture | 14.0 | 0.1 % | 1 | P0C0504 | 03/05/20 08:10 | 03/05/20 08:18 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-10a 6'' 0C03013-04 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 2500 | 11.4 mg/kg dry | 10 | P0C0315 | 03/03/20 15:00 | 03/04/20 07:13 | EPA 300.0 |
|------------|------|----------------|----|---------|----------------|----------------|------------|
| % Moisture | 12.0 | 0.1 % | 1 | P0C0504 | 03/05/20 08:10 | 03/05/20 08:18 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-14a 6'' 0C03013-05 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 2380 | 11.4 mg/kg dry | 10 | P0C0315 | 03/03/20 15:00 | 03/04/20 07:29 | EPA 300.0 |
|------------|------|----------------|----|---------|----------------|----------------|------------|
| % Moisture | 12.0 | 0.1 % | 1 | P0C0504 | 03/05/20 08:10 | 03/05/20 08:18 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-15a 6" 0C03013-06 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 2890 | 11.5 mg/kg dry | 10 | P0C0315 | 03/03/20 15:00 | 03/04/20 07:44 | EPA 300.0 |
|------------|------|----------------|----|---------|----------------|----------------|------------|
| % Moisture | 13.0 | 0.1 % | 1 | P0C0504 | 03/05/20 08:10 | 03/05/20 08:18 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-16a 6'' 0C03013-07 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 574 | 5.38 mg/kg dry | 5 | P0C0315 | 03/03/20 15:00 | 03/04/20 08:00 | EPA 300.0 |
|------------|-----|----------------|---|---------|----------------|----------------|------------|
| % Moisture | 7.0 | 0.1 % | 1 | P0C0504 | 03/05/20 08:10 | 03/05/20 08:18 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-18a 6'' 0C03013-08 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 2820 | 12.0 mg/kg dry | 10 | P0C0315 | 03/03/20 15:00 | 03/04/20 08:16 | EPA 300.0 |
|------------|------|----------------|----|---------|----------------|----------------|------------|
| % Moisture | 17.0 | 0.1 % | 1 | P0C0504 | 03/05/20 08:10 | 03/05/20 08:18 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-21a 6" 0C03013-09 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 4010 | 11.4 mg/kg dry | 10 | P0C0315 | 03/03/20 15:00 | 03/04/20 08:32 | EPA 300.0 |
|------------|------|----------------|----|---------|----------------|----------------|------------|
| % Moisture | 12.0 | 0.1 % | 1 | P0C0504 | 03/05/20 08:10 | 03/05/20 08:18 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-24a 6'' 0C03013-10 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 1630 | 6.49 mg/kg dry | 5 | P0C0312 | 03/03/20 16:00 | 03/04/20 10:15 | EPA 300.0 |
|------------|------|----------------|---|---------|----------------|----------------|------------|
| % Moisture | 23.0 | 0.1 % | 1 | P0C0504 | 03/05/20 08:10 | 03/05/20 08:18 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-26a 6'' 0C03013-11 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 1070 | 5.62 mg/kg dry | 3 | P0C0312 | 03/03/20 16:00 | 03/04/20 10:30 | EPA 300.0 |
|------------|------|----------------|---|---------|----------------|----------------|------------|
| % Moisture | 11.0 | 0.1 % | 1 | P0C0504 | 03/05/20 08:10 | 03/05/20 08:18 | ASTM D2216 |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-29a 6'' 0C03013-12 (Soil)

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

Permian Basin Environmental Lab, L.P.

| Chloride | 3540 | 27.8 mg/kg dry | 25 | P0C0312 | 03/03/20 16:00 | 03/04/20 10:45 | EPA 300.0 |
|------------|------|----------------|----|---------|----------------|----------------|------------|
| % Moisture | 10.0 | 0.1 % | 1 | P0C0504 | 03/05/20 08:10 | 03/05/20 08:18 | ASTM D2216 |

Fax: 43-687-1570

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

> General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--------------------------------------|--------|--------------|-----------|------------|-------------|-------------|--------|--------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P0C0312 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P0C0312-BLK1) | | | | Prepared & | & Analyzed: | 03/03/20 | | | | |
| Chloride | ND | 1.00 | mg/kg wet | | | | | | | |
| LCS (P0C0312-BS1) | | | | Prepared & | & Analyzed: | 03/03/20 | | | | |
| Chloride | 376 | 1.00 | mg/kg wet | 400 | | 93.9 | 80-120 | | | |
| LCS Dup (P0C0312-BSD1) | | | | Prepared & | & Analyzed: | 03/03/20 | | | | |
| Chloride | 376 | 1.00 | mg/kg wet | 400 | | 93.9 | 80-120 | 0.0639 | 20 | |
| Calibration Blank (P0C0312-CCB1) | | | | Prepared & | & Analyzed: | 03/03/20 | | | | |
| Chloride | 0.00 | | mg/kg wet | | | | | | | |
| Calibration Blank (P0C0312-CCB2) | | | | Prepared: | 03/03/20 At | nalyzed: 03 | /04/20 | | | |
| Chloride | 0.00 | | mg/kg wet | | | | | | | |
| Calibration Check (P0C0312-CCV2) | | | | Prepared: | 03/03/20 Aı | nalyzed: 03 | /04/20 | | | |
| Chloride | 16.2 | | mg/kg | 20.0 | | 80.8 | 0-200 | | | |
| Matrix Spike (P0C0312-MS1) | Sou | rce: 0C02020 |)-21 | Prepared & | & Analyzed: | 03/03/20 | | | | |
| Chloride | 17100 | 56.8 | mg/kg dry | 5680 | 11500 | 98.0 | 80-120 | | | |
| Matrix Spike Dup (P0C0312-MSD1) | Sou | rce: 0C02020 |)-21 | Prepared & | & Analyzed: | 03/03/20 | | | | |
| Chloride | 17000 | 56.8 | mg/kg dry | 5680 | 11500 | 97.5 | 80-120 | 0.173 | 20 | |
| Batch P0C0315 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P0C0315-BLK1) | | | | Prepared: | 03/03/20 Aı | nalyzed: 03 | /04/20 | | | |
| Chloride | ND | 1.00 | mg/kg wet | | | - | | | | |

Fax: 43-687-1570

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | • |
|--------------------------------------|--------|--------------|-----------|-------------|------------|--------------|--------|-------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P0C0315 - *** DEFAULT PREP *** | | | | | | | | | | |
| LCS (P0C0315-BS1) | | | | Prepared: (| 03/03/20 A | analyzed: 03 | /04/20 | | | |
| Chloride | 396 | 1.00 | mg/kg wet | 400 | | 99.0 | 80-120 | | | |
| LCS Dup (P0C0315-BSD1) | | | | Prepared: (| 03/03/20 A | analyzed: 03 | /04/20 | | | |
| Chloride | 401 | 1.00 | mg/kg wet | 400 | | 100 | 80-120 | 1.20 | 20 | |
| Calibration Blank (P0C0315-CCB1) | | | | Prepared: (| 03/03/20 A | analyzed: 03 | /04/20 | | | |
| Chloride | 0.00 | | mg/kg wet | | | | | | | |
| Calibration Blank (P0C0315-CCB2) | | | | Prepared: (| 03/03/20 A | analyzed: 03 | /04/20 | | | |
| Chloride | 0.00 | | mg/kg wet | | | | | | | |
| Calibration Check (P0C0315-CCV1) | | | | Prepared: (| 03/03/20 A | analyzed: 03 | /04/20 | | | |
| Chloride | 19.8 | | mg/kg | 20.0 | | 99.2 | 0-200 | | | |
| Calibration Check (P0C0315-CCV2) | | | | Prepared: (| 03/03/20 A | analyzed: 03 | /04/20 | | | |
| Chloride | 20.1 | | mg/kg | 20.0 | | 101 | 0-200 | | | |
| Matrix Spike (P0C0315-MS1) | Sou | rce: 0C02010 | 0-09 | Prepared: (| 03/03/20 A | nalyzed: 03 | /04/20 | | | |
| Chloride | 11900 | 51.5 | mg/kg dry | 5150 | 6720 | 101 | 80-120 | | | |
| Matrix Spike (P0C0315-MS2) | Sou | rce: 0C02012 | 2-02 | Prepared: (| 03/03/20 A | analyzed: 03 | /04/20 | | | |
| Chloride | 1650 | 5.43 | mg/kg dry | 543 | 1010 | 119 | 80-120 | | | |
| Matrix Spike Dup (P0C0315-MSD1) | Sou | rce: 0C02010 |)-09 | Prepared: (| 03/03/20 A | analyzed: 03 | /04/20 | | | |
| Chloride | 12200 | 51.5 | mg/kg dry | 5150 | 6720 | 106 | 80-120 | 2.27 | 20 | |
| Matrix Spike Dup (P0C0315-MSD2) | Sou | rce: 0C02012 | 2-02 | Prepared: (| 03/03/20 A | analyzed: 03 | /04/20 | | | |
| Chloride | 1650 | 5.43 | mg/kg dry | 543 | 1010 | 118 | 80-120 | 0.402 | 20 | |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--------------------------------------|--------|---------------|-------|------------|-------------|----------|--------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P0C0504 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P0C0504-BLK1) | | | | Prepared & | z Analyzed: | 03/05/20 | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | |
| Duplicate (P0C0504-DUP1) | Sour | rce: 0C03014- | 06 | Prepared & | : Analyzed: | 03/05/20 | | | | |
| % Moisture | 17.0 | 0.1 | % | | 17.0 | | | 0.00 | 20 | |
| Duplicate (P0C0504-DUP2) | Sour | rce: 0C03022- | 11 | Prepared & | : Analyzed: | 03/05/20 | | | | |
| % Moisture | 6.0 | 0.1 | % | | 5.0 | | | 18.2 | 20 | · |
| Duplicate (P0C0504-DUP3) | Sour | rce: 0C04003- | 05 | Prepared & | : Analyzed: | 03/05/20 | | | | |
| % Moisture | 4.0 | 0.1 | % | | 9.0 | | | 76.9 | 20 | |
| Duplicate (P0C0504-DUP4) | Sour | rce: 0C04007- | 06 | Prepared & | Analyzed: | 03/05/20 | | | | |
| % Moisture | 7.0 | 0.1 | % | | 7.0 | | | 0.00 | 20 | |

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

| | Burnon | | |
|---------------------|--------|-------|----------|
| Report Approved By: | | Date: | 3/6/2020 |

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

| | - 1 | uze zu ul 10 |
|--------------|------------------|--------------|
| Company Name | Project Manager: | Y SMUKSKAT |
| Faske | Aaror | |

City/State/Zip:

Midland, TX 79707

Telephone No:

432-687-1777

Fax No:

432-687-1570

Company Address: 6101 Holiday Hill Road

Fasken Oil and Ranch, Ltd

Aaron Pachlhofer

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

| Midland, Texas 79706 | 10014 S. County Road 1213 | Permian Basin Environmental Lab, LP |
|----------------------|---------------------------|-------------------------------------|
|----------------------|---------------------------|-------------------------------------|

| J | roject Name: |
|---|-------------------------------|
| | roject Name: Denton No. 5 SWD |

Phone: 432-686-7235

Page 19 of 20

Project a

| PO#: | Project Loc: | Project #: |
|------|-----------------------------|------------|
| | Project Loc: Lea County, NM | |

| | Lea County, NM | |
|---|----------------|---|
|] | , NM | - |
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| Report Format: X Standard | PO #: | Project Loc | Project #: |
|---------------------------|--------|-----------------------------|------------|
| × | ļ. | <u> </u> | |
| Standard | | Project Loc: Lea County, NM | |
| TRRP | | | |
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| unty, NM | | 1 No. 5 SWD |
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| Relinquished by | Relinquished by: | Relinquished by: Aaron Pachlhofer | Special | 10 | مر | ~ | ب | • | 4 | 4 | 3 | ۲) | | LAB.#(lab use only) Din Se only) # only) | |
|--|--|---|--|----------|-----------------|----------|----------|----------|----------|------------|----------|----------|----------|---|--------------|
| hed by: | hed by: | hed by: Ichlhofer | Special Instructions: | S-24a 6 | S-21a 6" | S-18a 6" | S-16a 6" | S-15a-6" | S-14a 6" | S-10a 6" | S-8a 6" | S-4a 6" | S-1a 6" | FIELD CODE | |
| Date | Date |)/3/pp | | Ē | | Ė | -1 | | ä | - <u>a</u> | | | | | |
| | | 72 | | | | | | | | | | | | Beginning Depth | |
| Time | Time | 7 : 00 1 : me | 3 | | | | | | | | | | | Ending Depth | |
| Receive W.P. | Received by: | Received by: | | 3/2/2020 | 3/2/2020 | 3/2/2020 | 3/2/2020 | 3/2/2020 | 3/2/2020 | 3/2/2020 | 3/2/2020 | 3/2/2020 | 3/2/2020 | Date Sampled | |
| | \ | | | 11:34 | 13147 | 14:06 | 14:10 | 13:49 | 14:49 | 13:57 | 13:53 | 14:53 | 14:09 | Time Sampled | , |
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| Fritzier Fritzier | | | | | | | | | | | | | | HNO ₃ Preservati | |
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| | | | | | | | | | | | | | | NaOH 9 | |
| | | | | | <u> </u> | | | | | | | | | NaOH OC COntains | |
| 2 | | _ | | <u> </u> | _ | | | | | | | | | None e | |
| اور دن | Date | Date | | | | _ | - | | - | | | | | Other (Specify) DW=Drinking Water SL=Sludge | |
| 22 | | | | S | S | S | S | S | S | S | S | S | S | GW = Groundwater S=Soil/Solid | |
| Maria da | | | | | | | | | | | | | | NP=Non-Potable Specify Other | |
| 8 | Time | me | | | | | | | | | | | | TPH: 418.1 <u>8015M</u> 6015B | П |
| 720000000000000000000000000000000000000 | co. | 00- | - 60 F | | | _ | | | | | | | | TPH: <u>TX 1005</u> TX 1006 | |
| by Co Temperat Received Adjusted | o Julie | alle Visto | | | × | _ | - | | _ |) | | | | Cations (Ca, Mg, Na, K) | |
| by Courier lemperature Received: \$ |)eH Sar | ÇÇS | F C | × | ^- | × | × | × | × | X | × | × | × | Anions (CI, SO4, Alkalinity) SAR / ESP / CEC TOTAL: | |
| by Courier? perature U perature V pered: * | Sample Hand Delivered by Sample Edition | Labels on container(s) Custody seals on contain Custody seals on cooler(s | Laboratory Comments: Sample Containers Intact? VOCs Fiee of Headspace? | 5 | - | - | | \vdash | - | | - | - | | Metals: As Ag Ba Cd Cr Pb Hg Se | |
| 0 0≧ | Deli Olie | | Hea | | | | | | | | _ | | | Volatiles | Analyze For: |
| | ž od | | s Inti | | | | | | | | | | | Semivolatiles | ze F |
| $\circ \circ =$ | nple Hand Delivered by Sample#Client Rep. ? | Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) | Caporatory Comments: Sample Containers Intact? VOCs Free of Headspace? | | | | | | | | | | | BTEX 8021B/5030 or BTEX 8260 | ġʻ |
| DHL Tactor | | (S) | | | | | | | | | | | | RCI | |
| | -35000 - 35000 - 35000 | | | | | | | | | | | | | N.O.R.M. | |
| | | - - | S. | | | | | | | | | | | Glycol | |
| J Ş | | ** | 22) | 1 | | | | | | | | | | , | |
| Lone Star | ZZ | 222 | 22 | | | | | | | | | | | RUSH TAT (Pre-Schedule) 24, 48, 72 hrs | Ц |
| | 40 to 16. | | | | $oxed{oxed}$ | | | | |] | | | | 171 (Fie-Schedule) 24, 48, 72 hrs | - 1 |

Standard TAT

Page 20 of 20

Photos





































