

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2018133740
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Fasken Oil and Ranch, Ltd	OGRID: 151416
Contact Name: Aaron Pachlhofer	Contact Telephone: 432-687-1777
Contact email: aaronp@forl.com	Incident #
Contact mailing address: 6101 Holiday Hill Road, Midland , TX 79707	

Location of Release Source

Latitude 33.023601° Longitude -103.159952°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Denton No. 3 SWD Line leak	Site Type: SWD Injection line
Date Release Discovered 5/25/20	API# 30-025-05306

Unit Letter	Section	Township	Range	County
D	13	15S	37E	Lea

Surface Owner: State Federal Tribal Private (Name: Darr Angel)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 15	Volume Recovered (bbls) 10
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Leak occurred on injection line at a joint between pipes. SWD system sensed loss in pressure and shut down injection, minimizing spill volume. Line was repaired on 5/27/20 and system returned to operation. Vacuum truck removed 10 barrels of produced water. No crude oil staining was noted.

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NRM2018133740
District RP	
Facility ID	
Application ID	

Closure

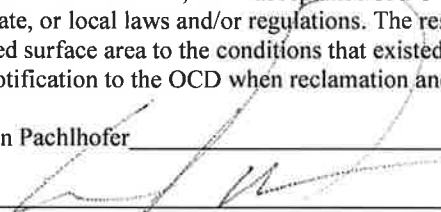
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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.

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
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Aaron Pachlhofer Title: Environmental


Signature:  Coordinator Date: 12/15/2020

email: aaronp@forl.com Telephone: 432-687-1777

OCD Only

Received by: Chad Hensley Date: 03/24/2021

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: 03/24/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced



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

December 15, 2020

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

Site Closure request: Incident #NRM2018133740

Ms. Eads,

On May 25, 2020 a spill occurred at the Fasken Oil and Ranch (Fasken) Denton SWD battery mainline when a joint on the injection line separated. Sensors in the SWD system sensed a pressure loss and shut down the system, minimizing the volume of water spilled. The battery is located 33.023601°, -103.159952°. During the spill 15 barrels of produced water was released, and no crude oil was released. 10 barrels of produced water was recovered according to Fasken operations personnel. 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. The spill area is approximately 8,340 square feet.

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 are Fasken Oil and Ranch monitoring well MW-2, approximately 250 feet to the southwest of the spill area at 33.023230°, -103.160813°. The depth to groundwater in this well is 70 to 75 feet below ground surface. Full gauging data are available upon request from OCD. The gauging data ais consistent with other wells in the area.

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 600 mg/kg since the spill is in a pasture.

Initial Sample Collection and Results

Following the initial spill response, a set of preliminary samples were collected from location S-1 through S-17 from the surface. One sample for every 500 square feet was collected. Four Delineation samples were also collected. Please see the attached SITE PLAN. Initial sample results showed high chlorides at 5,000 to 6,000 mg/kg in most samples. One sample contained ethyl benzene at 0.00791 mg/kg. No TPH was detected. The delineation sample (DEL-1 through DEL-4) showed very low

chlorides. Please refer to the analytical summary tables for a summary of all laboratory results and the attached sight plan for sample locations.

Excavation of Material and Confirmation Sampling

Following the evaluation of the initial laboratory results, vertical soil samples were collected and field screened for chlorides. Field screening indicated that the removal of 1 foot of soil was necessary.

In September 2020, the spill area was excavation to 1 foot below ground surface. Following excavation, all 17 sample locations were resampled. Results were below limits, ranging from 51.2 to 572 mg/kg chloride. A few samples contain BTEX components at less than 0.010 mg/kg. No TPH was detected.

RECCOMENDATION

Fasken recommends closing this release. All concentrations are below the Table 1 limits for groundwater less than 50 feet deep (pasture area).

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



Spill area looking south



Spill area looking north




Spill area partially excavated



Spill area excavated.

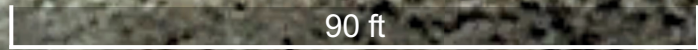
Denton Mainline

Legend

-  Denton



Google Earth



Denton Mainline Analytical Summary Table - Assessment

Date	Location	Depth	Cl-	Benzene	Toluene	Ethylbensene	Xylene	TPH
6/2/2020	S-1	Surface	5210	ND	ND	ND	ND	ND
6/2/2020	S-2	Surface	6440	ND	ND	ND	ND	ND
6/2/2020	S-3	Surface	5500	ND	ND	ND	ND	ND
6/2/2020	S-4	Surface	35.4	ND	ND	ND	ND	ND
6/2/2020	S-5	Surface	5200	ND	ND	ND	ND	ND
6/2/2020	S-6	Surface	5700	ND	ND	ND	ND	ND
6/2/2020	S-7	Surface	5600	ND	ND	ND	ND	ND
6/2/2020	S-8	Surface	5820	ND	ND	ND	ND	ND
6/2/2020	S-9	Surface	3530	ND	ND	ND	ND	ND
6/2/2020	S-10	Surface	14.2	ND	ND	ND	ND	ND
6/2/2020	S-11	Surface	3990	ND	ND	ND	ND	ND
6/2/2020	S-12	Surface	6380	ND	ND	ND	ND	ND
6/2/2020	S-13	Surface	5670	ND	ND	ND	ND	ND
6/2/2020	S-14	Surface	5010	ND	ND	ND	ND	ND
6/2/2020	S-15	Surface	232	ND	ND	ND	ND	ND
6/2/2020	S-16	Surface	6090	ND	ND	ND	ND	ND
6/2/2020	S-17	Surface	6440	ND	ND	ND	ND	ND
6/2/2020	Del1	Surface	132	ND	ND	ND	ND	ND
6/2/2020	Del2	Surface	3.18	ND	ND	ND	ND	ND
6/2/2020	Del3	Surface	6.22	ND	ND	0.00791	ND	ND
6/2/2020	Del4	Surface	4.76	ND	ND	ND	ND	ND
10/2/2020	S-1	1'	156	ND	ND	ND	ND	ND
10/2/2020	S-2	1'	83.2	ND	ND	ND	ND	ND
10/2/2020	S-3	1'	74.6	ND	ND	ND	ND	ND
10/2/2020	S-4	1'	185	ND	ND	ND	ND	ND
10/2/2020	S-5	1'	81.4	ND	ND	ND	ND	ND
10/2/2020	S-6	1'	52.4	ND	0.00175	ND	ND	ND
10/2/2020	S-7	1'	346	0.00111	ND	ND	ND	ND
10/2/2020	S-8	1'	180	ND	ND	ND	ND	ND
10/2/2020	S-9	1'	185	ND	ND	ND	ND	ND
10/2/2020	S-10	1'	71.3	ND	ND	ND	ND	ND
10/2/2020	S-11	1'	80.2	ND	ND	ND	ND	ND
10/2/2020	S-12	1'	84	ND	ND	ND	ND	ND
10/2/2020	S-13	1'	204	ND	ND	ND	ND	ND
10/2/2020	S-14	1'	202	ND	ND	ND	ND	ND
10/2/2020	S-15	1'	572	ND	0.00113	ND	ND	ND
10/2/2020	S-16	1'	550	ND	0.00116	ND	ND	ND
10/2/2020	S-17	1'	60.4	ND	0.0015	ND	ND	ND

**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 SWD
Project Number: [none]
Location: Lea County, NM
Lab Order Number: 0F03001



Current Certification

Report Date: 06/10/20

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	0F03001-01	Soil	06/02/20 08:11	06-02-2020 17:30
S-2	0F03001-02	Soil	06/02/20 08:15	06-02-2020 17:30
S-3	0F03001-03	Soil	06/02/20 08:22	06-02-2020 17:30
S-4	0F03001-04	Soil	06/02/20 08:29	06-02-2020 17:30
S-5	0F03001-05	Soil	06/02/20 08:35	06-02-2020 17:30
S-6	0F03001-06	Soil	06/02/20 08:41	06-02-2020 17:30
S-7	0F03001-07	Soil	06/02/20 08:49	06-02-2020 17:30
S-8	0F03001-08	Soil	06/02/20 08:55	06-02-2020 17:30
S-9	0F03001-09	Soil	06/02/20 09:02	06-02-2020 17:30
S-10	0F03001-10	Soil	06/02/20 09:10	06-02-2020 17:30
S-11	0F03001-11	Soil	06/02/20 09:15	06-02-2020 17:30
S-12	0F03001-12	Soil	06/02/20 09:20	06-02-2020 17:30
S-13	0F03001-13	Soil	06/02/20 09:26	06-02-2020 17:30
S-14	0F03001-14	Soil	06/02/20 09:35	06-02-2020 17:30
S-15	0F03001-15	Soil	06/02/20 09:42	06-02-2020 17:30
S-16	0F03001-16	Soil	06/02/20 09:51	06-02-2020 17:30
S-17	0F03001-17	Soil	06/02/20 10:00	06-02-2020 17:30
Del-1	0F03001-18	Soil	06/02/20 10:15	06-02-2020 17:30
Del-2	0F03001-19	Soil	06/02/20 10:21	06-02-2020 17:30
Del-3	0F03001-20	Soil	06/02/20 10:35	06-02-2020 17:30
Del-4	0F03001-21	Soil	06/02/20 10:45	06-02-2020 17:30

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-1
0F03001-01 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 05:43	EPA 8021B	
Toluene	ND	0.00543	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 05:43	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 05:43	EPA 8021B	
Xylene (p/m)	ND	0.00543	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 05:43	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 05:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		POF0309	06/03/20 15:26	06/04/20 05:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		POF0309	06/03/20 15:26	06/04/20 05:43	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5210	10.9	mg/kg dry	10	POF0603	06/06/20 17:48	06/10/20 00:36	EPA 300.0	
% Moisture	8.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 01:57	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 01:57	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 01:57	TPH 8015M	
Surrogate: 1-Chlorooctane		96.0 %	70-130		POF0303	06/03/20 13:05	06/05/20 01:57	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		POF0303	06/03/20 13:05	06/05/20 01:57	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 01:57	calc	

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.

1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-2
0F03001-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:03	EPA 8021B	
Toluene	ND	0.00556	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:03	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:03	EPA 8021B	
Xylene (p/m)	ND	0.00556	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:03	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		POF0309	06/03/20 15:26	06/04/20 06:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		POF0309	06/03/20 15:26	06/04/20 06:03	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6440	11.1	mg/kg dry	10	POF0603	06/06/20 17:48	06/10/20 00:52	EPA 300.0	
% Moisture	10.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 02:20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 02:20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 02:20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.2 %	70-130		POF0303	06/03/20 13:05	06/05/20 02:20	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		POF0303	06/03/20 13:05	06/05/20 02:20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 02:20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-3
0F03001-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:24	EPA 8021B	
Toluene	ND	0.00543	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:24	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:24	EPA 8021B	
Xylene (p/m)	ND	0.00543	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:24	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		POF0309	06/03/20 15:26	06/04/20 06:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		POF0309	06/03/20 15:26	06/04/20 06:24	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5500	27.2	mg/kg dry	25	POF0603	06/06/20 17:48	06/10/20 01:08	EPA 300.0	
% Moisture	8.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 02:43	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 02:43	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 02:43	TPH 8015M	
Surrogate: 1-Chlorooctane		93.7 %	70-130		POF0303	06/03/20 13:05	06/05/20 02:43	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		POF0303	06/03/20 13:05	06/05/20 02:43	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 02:43	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-4
0F03001-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:44	EPA 8021B	
Toluene	ND	0.00510	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:44	EPA 8021B	
Ethylbenzene	ND	0.00510	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:44	EPA 8021B	
Xylene (p/m)	ND	0.00510	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:44	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 06:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.3 %	75-125		POF0309	06/03/20 15:26	06/04/20 06:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		POF0309	06/03/20 15:26	06/04/20 06:44	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	35.4	1.02	mg/kg dry	1	POF0603	06/06/20 17:48	06/10/20 01:24	EPA 300.0	
% Moisture	2.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 03:05	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 03:05	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 03:05	TPH 8015M	
Surrogate: 1-Chlorooctane		89.8 %	70-130		POF0303	06/03/20 13:05	06/05/20 03:05	TPH 8015M	
Surrogate: o-Terphenyl		95.7 %	70-130		POF0303	06/03/20 13:05	06/05/20 03:05	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 03:05	calc	

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.

1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-5
0F03001-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 07:05	EPA 8021B	
Toluene	ND	0.00549	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 07:05	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 07:05	EPA 8021B	
Xylene (p/m)	ND	0.00549	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 07:05	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 07:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		POF0309	06/03/20 15:26	06/04/20 07:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		POF0309	06/03/20 15:26	06/04/20 07:05	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5200	27.5	mg/kg dry	25	POF0603	06/06/20 17:48	06/10/20 01:40	EPA 300.0	
% Moisture	8.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 03:28	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 03:28	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 03:28	TPH 8015M	
Surrogate: 1-Chlorooctane		87.9 %	70-130		POF0303	06/03/20 13:05	06/05/20 03:28	TPH 8015M	
Surrogate: o-Terphenyl		94.7 %	70-130		POF0303	06/03/20 13:05	06/05/20 03:28	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 03:28	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-6
0F03001-06 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 07:25	EPA 8021B	
Toluene	ND	0.00549	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 07:25	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 07:25	EPA 8021B	
Xylene (p/m)	ND	0.00549	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 07:25	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 07:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.4 %	75-125		POF0309	06/03/20 15:26	06/04/20 07:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		POF0309	06/03/20 15:26	06/04/20 07:25	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5700	27.5	mg/kg dry	25	POF0603	06/06/20 17:48	06/10/20 01:56	EPA 300.0	
% Moisture	8.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 04:37	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 04:37	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 04:37	TPH 8015M	
Surrogate: 1-Chlorooctane		82.5 %	70-130		POF0303	06/03/20 13:05	06/05/20 04:37	TPH 8015M	
Surrogate: o-Terphenyl		90.1 %	70-130		POF0303	06/03/20 13:05	06/05/20 04:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 04:37	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-7
0F03001-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00115	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 08:26	EPA 8021B	
Toluene	ND	0.00575	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 08:26	EPA 8021B	
Ethylbenzene	ND	0.00575	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 08:26	EPA 8021B	
Xylene (p/m)	ND	0.00575	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 08:26	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 08:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		POF0309	06/03/20 15:26	06/04/20 08:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-125		POF0309	06/03/20 15:26	06/04/20 08:26	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5600	28.7	mg/kg dry	25	POF0903	06/09/20 15:16	06/10/20 03:31	EPA 300.0	
% Moisture	13.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 05:00	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 05:00	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 05:00	TPH 8015M	
Surrogate: 1-Chlorooctane		85.3 %	70-130		POF0303	06/03/20 13:05	06/05/20 05:00	TPH 8015M	
Surrogate: o-Terphenyl		92.4 %	70-130		POF0303	06/03/20 13:05	06/05/20 05:00	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 05:00	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-8
0F03001-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00118	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 08:47	EPA 8021B	
Toluene	ND	0.00588	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 08:47	EPA 8021B	
Ethylbenzene	ND	0.00588	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 08:47	EPA 8021B	
Xylene (p/m)	ND	0.00588	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 08:47	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 08:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %		75-125	POF0309	06/03/20 15:26	06/04/20 08:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %		75-125	POF0309	06/03/20 15:26	06/04/20 08:47	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5820	11.8	mg/kg dry	10	POF0903	06/09/20 15:16	06/10/20 04:18	EPA 300.0	
% Moisture	15.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 05:23	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 05:23	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 05:23	TPH 8015M	
Surrogate: 1-Chlorooctane		87.4 %		70-130	POF0303	06/03/20 13:05	06/05/20 05:23	TPH 8015M	
Surrogate: o-Terphenyl		94.8 %		70-130	POF0303	06/03/20 13:05	06/05/20 05:23	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 05:23	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-9
0F03001-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:07	EPA 8021B	
Toluene	ND	0.00556	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:07	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:07	EPA 8021B	
Xylene (p/m)	ND	0.00556	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:07	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		POF0309	06/03/20 15:26	06/04/20 09:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		POF0309	06/03/20 15:26	06/04/20 09:07	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3530	11.1	mg/kg dry	10	POF0903	06/09/20 15:16	06/10/20 04:34	EPA 300.0	
% Moisture	10.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 05:46	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 05:46	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 05:46	TPH 8015M	
Surrogate: 1-Chlorooctane		88.3 %	70-130		POF0303	06/03/20 13:05	06/05/20 05:46	TPH 8015M	
Surrogate: o-Terphenyl		96.3 %	70-130		POF0303	06/03/20 13:05	06/05/20 05:46	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 05:46	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-10
0F03001-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:28	EPA 8021B	
Toluene	ND	0.00521	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:28	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:28	EPA 8021B	
Xylene (p/m)	ND	0.00521	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:28	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		POF0309	06/03/20 15:26	06/04/20 09:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		POF0309	06/03/20 15:26	06/04/20 09:28	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	14.2	1.04	mg/kg dry	1	POF0903	06/09/20 15:16	06/10/20 04:50	EPA 300.0	
% Moisture	4.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 06:09	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 06:09	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 06:09	TPH 8015M	
Surrogate: 1-Chlorooctane		81.7 %	70-130		POF0303	06/03/20 13:05	06/05/20 06:09	TPH 8015M	
Surrogate: o-Terphenyl		89.2 %	70-130		POF0303	06/03/20 13:05	06/05/20 06:09	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 06:09	calc	

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.

1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-11
0F03001-11 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:49	EPA 8021B	
Toluene	ND	0.00556	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:49	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:49	EPA 8021B	
Xylene (p/m)	ND	0.00556	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:49	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 09:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		POF0309	06/03/20 15:26	06/04/20 09:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.6 %	75-125		POF0309	06/03/20 15:26	06/04/20 09:49	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3990	5.56	mg/kg dry	5	POF0903	06/09/20 15:16	06/10/20 05:05	EPA 300.0	
% Moisture	10.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 06:33	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 06:33	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 06:33	TPH 8015M	
Surrogate: 1-Chlorooctane		79.3 %	70-130		POF0303	06/03/20 13:05	06/05/20 06:33	TPH 8015M	
Surrogate: o-Terphenyl		85.9 %	70-130		POF0303	06/03/20 13:05	06/05/20 06:33	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 06:33	calc	

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.

1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-12
0F03001-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:09	EPA 8021B	
Toluene	ND	0.00549	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:09	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:09	EPA 8021B	
Xylene (p/m)	ND	0.00549	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:09	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		POF0309	06/03/20 15:26	06/04/20 10:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.1 %	75-125		POF0309	06/03/20 15:26	06/04/20 10:09	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6380	11.0	mg/kg dry	10	POF0903	06/09/20 15:16	06/10/20 05:21	EPA 300.0	
% Moisture	9.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 06:56	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 06:56	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 06:56	TPH 8015M	
Surrogate: 1-Chlorooctane		77.2 %	70-130		POF0303	06/03/20 13:05	06/05/20 06:56	TPH 8015M	
Surrogate: o-Terphenyl		84.1 %	70-130		POF0303	06/03/20 13:05	06/05/20 06:56	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 06:56	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-13
0F03001-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:30	EPA 8021B	
Toluene	ND	0.00556	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:30	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:30	EPA 8021B	
Xylene (p/m)	ND	0.00556	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:30	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		POF0309	06/03/20 15:26	06/04/20 10:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.9 %	75-125		POF0309	06/03/20 15:26	06/04/20 10:30	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5670	11.1	mg/kg dry	10	POF0903	06/09/20 15:16	06/10/20 05:37	EPA 300.0	
% Moisture	10.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 07:19	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 07:19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 07:19	TPH 8015M	
Surrogate: 1-Chlorooctane		78.2 %	70-130		POF0303	06/03/20 13:05	06/05/20 07:19	TPH 8015M	
Surrogate: o-Terphenyl		84.4 %	70-130		POF0303	06/03/20 13:05	06/05/20 07:19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 07:19	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-14
0F03001-14 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:50	EPA 8021B	
Toluene	ND	0.00549	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:50	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:50	EPA 8021B	
Xylene (p/m)	ND	0.00549	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:50	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 10:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %		75-125	POF0309	06/03/20 15:26	06/04/20 10:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %		75-125	POF0309	06/03/20 15:26	06/04/20 10:50	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5010	11.0	mg/kg dry	10	POF0903	06/09/20 15:16	06/10/20 05:53	EPA 300.0	
% Moisture	9.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 07:42	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 07:42	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 07:42	TPH 8015M	
Surrogate: 1-Chlorooctane		82.0 %		70-130	POF0303	06/03/20 13:05	06/05/20 07:42	TPH 8015M	
Surrogate: o-Terphenyl		89.5 %		70-130	POF0303	06/03/20 13:05	06/05/20 07:42	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 07:42	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-15
0F03001-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 11:10	EPA 8021B	
Toluene	ND	0.00562	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 11:10	EPA 8021B	
Ethylbenzene	ND	0.00562	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 11:10	EPA 8021B	
Xylene (p/m)	ND	0.00562	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 11:10	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 11:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		POF0309	06/03/20 15:26	06/04/20 11:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		POF0309	06/03/20 15:26	06/04/20 11:10	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4900	28.1	mg/kg dry	25	POF0903	06/09/20 15:16	06/10/20 06:08	EPA 300.0	
% Moisture	11.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 08:06	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 08:06	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	POF0303	06/03/20 13:05	06/05/20 08:06	TPH 8015M	
Surrogate: 1-Chlorooctane		85.2 %	70-130		POF0303	06/03/20 13:05	06/05/20 08:06	TPH 8015M	
Surrogate: o-Terphenyl		91.1 %	70-130		POF0303	06/03/20 13:05	06/05/20 08:06	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	06/03/20 13:05	06/05/20 08:06	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-16
0F03001-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 11:30	EPA 8021B	
Toluene	ND	0.00562	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 11:30	EPA 8021B	
Ethylbenzene	ND	0.00562	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 11:30	EPA 8021B	
Xylene (p/m)	ND	0.00562	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 11:30	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	POF0309	06/03/20 15:26	06/04/20 11:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.7 %	75-125		POF0309	06/03/20 15:26	06/04/20 11:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		POF0309	06/03/20 15:26	06/04/20 11:30	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6090	11.2	mg/kg dry	10	POF0903	06/09/20 15:16	06/10/20 06:24	EPA 300.0	
% Moisture	11.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 13:50	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 13:50	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 13:50	TPH 8015M	
Surrogate: 1-Chlorooctane		88.2 %	70-130		POF0304	06/03/20 13:06	06/05/20 13:50	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		POF0304	06/03/20 13:06	06/05/20 13:50	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	06/03/20 13:06	06/05/20 13:50	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-17
0F03001-17 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:01	EPA 8021B	
Toluene	ND	0.00568	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:01	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:01	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:01	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %		75-125	POF0407	06/04/20 13:19	06/04/20 20:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %		75-125	POF0407	06/04/20 13:19	06/04/20 20:01	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6440	11.4	mg/kg dry	10	POF0903	06/09/20 15:16	06/10/20 07:11	EPA 300.0	
% Moisture	12.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 14:13	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 14:13	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 14:13	TPH 8015M	
Surrogate: 1-Chlorooctane		83.4 %		70-130	POF0304	06/03/20 13:06	06/05/20 14:13	TPH 8015M	
Surrogate: o-Terphenyl		97.0 %		70-130	POF0304	06/03/20 13:06	06/05/20 14:13	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	06/03/20 13:06	06/05/20 14:13	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

Del-1
0F03001-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:22	EPA 8021B	
Toluene	ND	0.00510	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:22	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:22	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:22	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		POF0407	06/04/20 13:19	06/04/20 20:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		POF0407	06/04/20 13:19	06/04/20 20:22	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	132	1.02	mg/kg dry	1	POF0903	06/09/20 15:16	06/10/20 07:59	EPA 300.0	
% Moisture	2.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 14:36	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 14:36	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 14:36	TPH 8015M	
Surrogate: 1-Chlorooctane		71.6 %	70-130		POF0304	06/03/20 13:06	06/05/20 14:36	TPH 8015M	
Surrogate: o-Terphenyl		76.6 %	70-130		POF0304	06/03/20 13:06	06/05/20 14:36	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/03/20 13:06	06/05/20 14:36	calc	

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.

1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

Del-2
0F03001-19 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:42	EPA 8021B	
Toluene	ND	0.00510	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:42	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:42	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:42	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 20:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		POF0407	06/04/20 13:19	06/04/20 20:42	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		POF0407	06/04/20 13:19	06/04/20 20:42	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3.18	1.02	mg/kg dry	1	POF0903	06/09/20 15:16	06/10/20 08:14	EPA 300.0	
% Moisture	2.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 14:59	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 14:59	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 14:59	TPH 8015M	
Surrogate: 1-Chlorooctane		76.9 %	70-130		POF0304	06/03/20 13:06	06/05/20 14:59	TPH 8015M	
Surrogate: o-Terphenyl		87.2 %	70-130		POF0304	06/03/20 13:06	06/05/20 14:59	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/03/20 13:06	06/05/20 14:59	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 21 of 41

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

Del-3
0F03001-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 21:03	EPA 8021B	
Toluene	ND	0.00510	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 21:03	EPA 8021B	
Ethylbenzene	0.00791	0.00102	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 21:03	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 21:03	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 21:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.4 %		75-125	POF0407	06/04/20 13:19	06/04/20 21:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %		75-125	POF0407	06/04/20 13:19	06/04/20 21:03	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6.22	1.02	mg/kg dry	1	POF0903	06/09/20 15:16	06/10/20 08:30	EPA 300.0	
% Moisture	2.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 15:22	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 15:22	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 15:22	TPH 8015M	
Surrogate: 1-Chlorooctane		77.9 %		70-130	POF0304	06/03/20 13:06	06/05/20 15:22	TPH 8015M	
Surrogate: o-Terphenyl		87.4 %		70-130	POF0304	06/03/20 13:06	06/05/20 15:22	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/03/20 13:06	06/05/20 15:22	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

Del-4
0F03001-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 21:23	EPA 8021B	
Toluene	ND	0.00505	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 21:23	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 21:23	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 21:23	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	POF0407	06/04/20 13:19	06/04/20 21:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		POF0407	06/04/20 13:19	06/04/20 21:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		POF0407	06/04/20 13:19	06/04/20 21:23	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4.76	1.01	mg/kg dry	1	POF0903	06/09/20 15:16	06/10/20 08:46	EPA 300.0	
% Moisture	1.0	0.1	%	1	POF0402	06/04/20 09:31	06/04/20 09:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 15:46	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 15:46	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	POF0304	06/03/20 13:06	06/05/20 15:46	TPH 8015M	
Surrogate: 1-Chlorooctane		74.2 %	70-130		POF0304	06/03/20 13:06	06/05/20 15:46	TPH 8015M	
Surrogate: o-Terphenyl		83.8 %	70-130		POF0304	06/03/20 13:06	06/05/20 15:46	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	06/03/20 13:06	06/05/20 15:46	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F0309 - General Preparation (GC)**Blank (P0F0309-BLK1)**

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.00500	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.8	75-125			

LCS (P0F0309-BS1)

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	0.0974	0.00100	mg/kg wet	0.100		97.4	70-130			
Toluene	0.0937	0.00500	"	0.100		93.7	70-130			
Ethylbenzene	0.111	0.00500	"	0.100		111	70-130			
Xylene (p/m)	0.194	0.00500	"	0.200		97.2	70-130			
Xylene (o)	0.103	0.00100	"	0.100		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		97.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

LCS Dup (P0F0309-BSD1)

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	0.0990	0.00100	mg/kg wet	0.100		99.0	70-130	1.68	20	
Toluene	0.0972	0.00500	"	0.100		97.2	70-130	3.72	20	
Ethylbenzene	0.110	0.00500	"	0.100		110	70-130	1.21	20	
Xylene (p/m)	0.202	0.00500	"	0.200		101	70-130	3.76	20	
Xylene (o)	0.107	0.00100	"	0.100		107	70-130	3.53	20	
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.0	75-125			

Calibration Blank (P0F0309-CCB1)

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	0.420		mg/kg wet							
Toluene	4.92		"							
Ethylbenzene	1.36		"							
Xylene (p/m)	3.58		"							
Xylene (o)	0.920		"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F0309 - General Preparation (GC)**Calibration Blank (P0F0309-CCB2)**

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	0.00		mg/kg wet							
Toluene	1.77		"							
Ethylbenzene	0.470		"							
Xylene (p/m)	1.12		"							
Xylene (o)	0.340		"							
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.9	75-125			

Calibration Check (P0F0309-CCV1)

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	0.0958	0.00100	mg/kg wet	0.100		95.8	80-120			
Toluene	0.0998	0.00500	"	0.100		99.8	80-120			
Ethylbenzene	0.0968	0.00500	"	0.100		96.8	80-120			
Xylene (p/m)	0.192	0.00500	"	0.200		96.0	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.5	75-125			

Calibration Check (P0F0309-CCV2)

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	0.0979	0.00100	mg/kg wet	0.100		97.9	80-120			
Toluene	0.0963	0.00500	"	0.100		96.3	80-120			
Ethylbenzene	0.0956	0.00500	"	0.100		95.6	80-120			
Xylene (p/m)	0.191	0.00500	"	0.200		95.5	80-120			
Xylene (o)	0.0986	0.00100	"	0.100		98.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

Calibration Check (P0F0309-CCV3)

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0952	0.00500	"	0.100		95.2	80-120			
Ethylbenzene	0.0949	0.00500	"	0.100		94.9	80-120			
Xylene (p/m)	0.193	0.00500	"	0.200		96.6	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.2	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F0309 - General Preparation (GC)**Matrix Spike (P0F0309-MS1)**

Source: 0F02001-05

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	0.0687	0.00101	mg/kg dry	0.101	ND	68.0	80-120			QM-07
Toluene	0.0551	0.00505	"	0.101	0.00277	51.8	80-120			QM-07
Ethylbenzene	0.0662	0.00505	"	0.101	ND	65.6	80-120			QM-07
Xylene (p/m)	0.111	0.00505	"	0.202	0.00213	53.7	80-120			QM-07
Xylene (o)	0.0575	0.00101	"	0.101	0.000838	56.1	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.124		"	0.121		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.121		101	75-125			

Matrix Spike Dup (P0F0309-MSD1)

Source: 0F02001-05

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	0.0691	0.00101	mg/kg dry	0.101	ND	68.4	80-120	0.528	20	QM-07
Toluene	0.0572	0.00505	"	0.101	0.00277	53.9	80-120	3.86	20	QM-07
Ethylbenzene	0.0720	0.00505	"	0.101	ND	71.3	80-120	8.35	20	QM-07
Xylene (p/m)	0.122	0.00505	"	0.202	0.00213	59.1	80-120	9.55	20	QM-07
Xylene (o)	0.0633	0.00101	"	0.101	0.000838	61.8	80-120	9.72	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.121		"	0.121		100	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.121		99.8	75-125			

Batch P0F0407 - General Preparation (GC)**Blank (P0F0407-BLK1)**

Prepared & Analyzed: 06/04/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.4	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F0407 - General Preparation (GC)**LCS (P0F0407-BS1)**

Prepared & Analyzed: 06/04/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130			
Toluene	0.102	0.00500	"	0.100		102	70-130			
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130			
Xylene (p/m)	0.223	0.00200	"	0.200		111	70-130			
Xylene (o)	0.113	0.00100	"	0.100		113	70-130			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.1	75-125			

LCS Dup (P0F0407-BSD1)

Prepared & Analyzed: 06/04/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130	2.30	20	
Toluene	0.101	0.00500	"	0.100		101	70-130	1.55	20	
Ethylbenzene	0.106	0.00100	"	0.100		106	70-130	3.49	20	
Xylene (p/m)	0.213	0.00200	"	0.200		107	70-130	4.27	20	
Xylene (o)	0.108	0.00100	"	0.100		108	70-130	5.03	20	
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.7	75-125			

Calibration Blank (P0F0407-CCB1)

Prepared & Analyzed: 06/04/20

Benzene	0.00		mg/kg wet							
Toluene	1.29		"							
Ethylbenzene	0.340		"							
Xylene (p/m)	0.970		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.5	75-125			

Calibration Blank (P0F0407-CCB2)

Prepared & Analyzed: 06/04/20

Benzene	0.00		mg/kg wet							
Toluene	0.840		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.590		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.6	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F0407 - General Preparation (GC)

Calibration Check (P0F0407-CCV1)										
										Prepared & Analyzed: 06/04/20
Benzene	0.0980	0.00100	mg/kg wet	0.100		98.0	80-120			
Toluene	0.0952	0.00500	"	0.100		95.2	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.203	0.00200	"	0.200		102	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.7	75-125			

Calibration Check (P0F0407-CCV2)										
										Prepared & Analyzed: 06/04/20
Benzene	0.100	0.00100	mg/kg wet	0.100		100	80-120			
Toluene	0.0980	0.00500	"	0.100		98.0	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		103	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.4	75-125			

Calibration Check (P0F0407-CCV3)										
										Prepared: 06/04/20 Analyzed: 06/05/20
Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.101	0.00500	"	0.100		101	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.209	0.00200	"	0.200		104	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	75-125			

Matrix Spike (P0F0407-MS1)										
										Source: 0F03001-17
										Prepared: 06/04/20 Analyzed: 06/05/20
Benzene	0.0836	0.00114	mg/kg dry	0.114	ND	73.5	80-120			QM-07
Toluene	0.0764	0.00568	"	0.114	0.000739	66.6	80-120			QM-07
Ethylbenzene	0.0869	0.00114	"	0.114	ND	76.5	80-120			QM-07
Xylene (p/m)	0.154	0.00227	"	0.227	ND	67.8	80-120			QM-07
Xylene (o)	0.0719	0.00114	"	0.114	ND	63.3	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.141		"	0.136		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.142		"	0.136		104	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
 Project Number: [none]
 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F0407 - General Preparation (GC)

Matrix Spike Dup (P0F0407-MSD1)

Source: 0F03001-17

Prepared: 06/04/20

Analyzed: 06/05/20

Benzene	0.0832	0.00114	mg/kg dry	0.114	ND	73.2	80-120	0.477	20	QM-07
Toluene	0.0772	0.00568	"	0.114	0.000739	67.2	80-120	0.941	20	QM-07
Ethylbenzene	0.0866	0.00114	"	0.114	ND	76.2	80-120	0.288	20	QM-07
Xylene (p/m)	0.151	0.00227	"	0.227	ND	66.7	80-120	1.68	20	QM-07
Xylene (o)	0.0704	0.00114	"	0.114	ND	61.9	80-120	2.17	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.142		"	0.136		104	75-125			
Surrogate: 4-Bromofluorobenzene	0.135		"	0.136		99.1	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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
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Batch P0F0402 - * DEFAULT PREP *****

Blank (P0F0402-BLK1)				Prepared & Analyzed: 06/04/20						
% Moisture	ND	0.1	%							
Duplicate (P0F0402-DUP1)				Source: 0F03002-05 Prepared & Analyzed: 06/04/20						
% Moisture	7.0	0.1	%		6.0			15.4	20	
Duplicate (P0F0402-DUP2)				Source: 0F03004-10 Prepared & Analyzed: 06/04/20						
% Moisture	20.0	0.1	%		20.0			0.00	20	
Duplicate (P0F0402-DUP3)				Source: 0F03006-08 Prepared & Analyzed: 06/04/20						
% Moisture	6.0	0.1	%		8.0			28.6	20	
Duplicate (P0F0402-DUP4)				Source: 0F03016-03 Prepared & Analyzed: 06/04/20						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0F0402-DUP5)				Source: 0F03016-05 Prepared & Analyzed: 06/04/20						
% Moisture	5.0	0.1	%		8.0			46.2	20	

Batch P0F0603 - * DEFAULT PREP *****

Blank (P0F0603-BLK1)				Prepared: 06/06/20 Analyzed: 06/09/20						
Chloride	ND	1.00	mg/kg wet							
LCS (P0F0603-BS1)				Prepared: 06/06/20 Analyzed: 06/09/20						
Chloride	442	1.00	mg/kg wet	400		111	80-120			
LCS Dup (P0F0603-BSD1)				Prepared: 06/06/20 Analyzed: 06/09/20						
Chloride	433	1.00	mg/kg wet	400		108	80-120	2.14	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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 P0F0603 - *** DEFAULT PREP ***										
Calibration Blank (P0F0603-CCB1)				Prepared: 06/06/20 Analyzed: 06/09/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0F0603-CCB2)				Prepared: 06/06/20 Analyzed: 06/09/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0F0603-CCV1)				Prepared: 06/06/20 Analyzed: 06/09/20						
Chloride	21.9		mg/kg	20.0		110	0-200			
Calibration Check (P0F0603-CCV2)				Prepared: 06/06/20 Analyzed: 06/09/20						
Chloride	21.8		mg/kg	20.0		109	0-200			
Calibration Check (P0F0603-CCV3)				Prepared: 06/06/20 Analyzed: 06/10/20						
Chloride	22.4		mg/kg	20.0		112	0-200			
Matrix Spike (P0F0603-MS1)				Source: 0F02002-14		Prepared: 06/06/20 Analyzed: 06/09/20				
Chloride	9830	28.1	mg/kg dry	2810	6750	110	80-120			
Matrix Spike (P0F0603-MS2)				Source: 0F02004-03		Prepared: 06/06/20 Analyzed: 06/09/20				
Chloride	8830	27.5	mg/kg dry	2750	5810	110	80-120			
Matrix Spike Dup (P0F0603-MSD1)				Source: 0F02002-14		Prepared: 06/06/20 Analyzed: 06/09/20				
Chloride	9280	28.1	mg/kg dry	2810	6750	90.1	80-120	5.72	20	
Matrix Spike Dup (P0F0603-MSD2)				Source: 0F02004-03		Prepared: 06/06/20 Analyzed: 06/09/20				
Chloride	8750	27.5	mg/kg dry	2750	5810	107	80-120	0.922	20	
Batch P0F0903 - *** DEFAULT PREP ***										
Blank (P0F0903-BLK1)				Prepared: 06/09/20 Analyzed: 06/10/20						
Chloride	ND	1.00	mg/kg wet							

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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 P0F0903 - *** DEFAULT PREP ***										
LCS (P0F0903-BS1)				Prepared: 06/09/20 Analyzed: 06/10/20						
Chloride	433	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P0F0903-BSD1)				Prepared: 06/09/20 Analyzed: 06/10/20						
Chloride	433	1.00	mg/kg wet	400		108	80-120	0.0393	20	
Calibration Blank (P0F0903-CCB1)				Prepared: 06/09/20 Analyzed: 06/10/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0F0903-CCB2)				Prepared: 06/09/20 Analyzed: 06/10/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0F0903-CCV1)				Prepared: 06/09/20 Analyzed: 06/10/20						
Chloride	22.4		mg/kg	20.0		112	0-200			
Calibration Check (P0F0903-CCV2)				Prepared: 06/09/20 Analyzed: 06/10/20						
Chloride	22.4		mg/kg	20.0		112	0-200			
Calibration Check (P0F0903-CCV3)				Prepared: 06/09/20 Analyzed: 06/10/20						
Chloride	21.7		mg/kg	20.0		109	0-200			
Matrix Spike (P0F0903-MS1)				Source: 0F03001-07		Prepared: 06/09/20 Analyzed: 06/10/20				
Chloride	13800	28.7	mg/kg dry	2870	10500	115	80-120			
Matrix Spike (P0F0903-MS2)				Source: 0F03001-17		Prepared: 06/09/20 Analyzed: 06/10/20				
Chloride	7760	11.4	mg/kg dry	1140	6440	116	80-120			
Matrix Spike Dup (P0F0903-MSD1)				Source: 0F03001-07		Prepared: 06/09/20 Analyzed: 06/10/20				
Chloride	13600	28.7	mg/kg dry	2870	10500	107	80-120	1.78	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
 Project Number: [none]
 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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
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Batch P0F0903 - * DEFAULT PREP *****

Matrix Spike Dup (P0F0903-MSD2)

Source: 0F03001-17

Prepared: 06/09/20 Analyzed: 06/10/20

Chloride	7830	11.4	mg/kg dry	1140	6440	122	80-120	0.997	20	QM-07
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - 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 P0F0303 - TX 1005										
Blank (P0F0303-BLK1)										
					Prepared: 06/03/20 Analyzed: 06/04/20					
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	92.9		"	100		92.9	70-130			
Surrogate: o-Terphenyl	48.0		"	50.0		96.0	70-130			
LCS (P0F0303-BS1)										
					Prepared: 06/03/20 Analyzed: 06/04/20					
C6-C12	994	25.0	mg/kg wet	1000		99.4	75-125			
>C12-C28	1190	25.0	"	1000		119	75-125			
Surrogate: 1-Chlorooctane	83.4		"	100		83.4	70-130			
Surrogate: o-Terphenyl	42.3		"	50.0		84.7	70-130			
LCS Dup (P0F0303-BSD1)										
					Prepared: 06/03/20 Analyzed: 06/04/20					
C6-C12	1020	25.0	mg/kg wet	1000		102	75-125	2.23	20	
>C12-C28	1230	25.0	"	1000		123	75-125	3.32	20	
Surrogate: 1-Chlorooctane	85.0		"	100		85.0	70-130			
Surrogate: o-Terphenyl	42.7		"	50.0		85.5	70-130			
Calibration Blank (P0F0303-CCB1)										
					Prepared: 06/03/20 Analyzed: 06/04/20					
C6-C12	11.8		mg/kg wet							
>C12-C28	11.9		"							
Surrogate: 1-Chlorooctane	83.7		"	100		83.7	70-130			
Surrogate: o-Terphenyl	43.6		"	50.0		87.3	70-130			
Calibration Blank (P0F0303-CCB2)										
					Prepared: 06/03/20 Analyzed: 06/05/20					
C6-C12	12.9		mg/kg wet							
>C12-C28	11.9		"							
Surrogate: 1-Chlorooctane	84.2		"	100		84.2	70-130			
Surrogate: o-Terphenyl	43.9		"	50.0		87.7	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F0303 - TX 1005**Calibration Check (P0F0303-CCV1)**

Prepared: 06/03/20 Analyzed: 06/04/20

C6-C12	466	25.0	mg/kg wet	500		93.3	85-115			
>C12-C28	509	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	80.2		"	100		80.2	70-130			
Surrogate: o-Terphenyl	40.6		"	50.0		81.2	70-130			

Calibration Check (P0F0303-CCV2)

Prepared: 06/03/20 Analyzed: 06/05/20

C6-C12	477	25.0	mg/kg wet	500		95.5	85-115			
>C12-C28	557	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	81.5		"	100		81.5	70-130			
Surrogate: o-Terphenyl	41.9		"	50.0		83.8	70-130			

Calibration Check (P0F0303-CCV3)

Prepared: 06/03/20 Analyzed: 06/05/20

C6-C12	462	25.0	mg/kg wet	500		92.4	85-115			
>C12-C28	532	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	78.9		"	100		78.9	70-130			
Surrogate: o-Terphenyl	39.8		"	50.0		79.6	70-130			

Duplicate (P0F0303-DUP1)

Source: 0F03001-15

Prepared: 06/03/20 Analyzed: 06/05/20

C6-C12	12.0	28.1	mg/kg dry		ND				20	
>C12-C28	ND	28.1	"		ND				20	
Surrogate: 1-Chlorooctane	96.6		"	112		86.0	70-130			
Surrogate: o-Terphenyl	51.8		"	56.2		92.2	70-130			

Batch P0F0304 - TX 1005**Blank (P0F0304-BLK1)**

Prepared: 06/03/20 Analyzed: 06/05/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	147		"	160		91.7	70-130			
Surrogate: o-Terphenyl	80.1		"	80.0		100	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - 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 P0F0304 - TX 1005										
LCS (P0F0304-BS1)										
					Prepared: 06/03/20 Analyzed: 06/05/20					
C6-C12	1570	25.0	mg/kg wet	1800		87.2	75-125			
>C12-C28	1830	25.0	"	1800		102	75-125			
Surrogate: 1-Chlorooctane	156		"	160		97.2	70-130			
Surrogate: o-Terphenyl	76.8		"	80.0		96.0	70-130			
LCS Dup (P0F0304-BSD1)										
					Prepared: 06/03/20 Analyzed: 06/05/20					
C6-C12	1570	25.0	mg/kg wet	1800		87.2	75-125	0.0401	20	
>C12-C28	1880	25.0	"	1800		105	75-125	2.81	20	
Surrogate: 1-Chlorooctane	178		"	160		111	70-130			
Surrogate: o-Terphenyl	73.9		"	80.0		92.4	70-130			
Calibration Blank (P0F0304-CCB1)										
					Prepared: 06/03/20 Analyzed: 06/05/20					
C6-C12	15.8		mg/kg wet							
>C12-C28	9.86		"							
Surrogate: 1-Chlorooctane	127		"	160		79.6	70-130			
Surrogate: o-Terphenyl	70.0		"	80.0		87.4	70-130			
Calibration Blank (P0F0304-CCB2)										
					Prepared: 06/03/20 Analyzed: 06/05/20					
C6-C12	15.1		mg/kg wet							
>C12-C28	18.8		"							
Surrogate: 1-Chlorooctane	124		"	160		77.7	70-130			
Surrogate: o-Terphenyl	69.3		"	80.0		86.6	70-130			
Calibration Check (P0F0304-CCV1)										
					Prepared: 06/03/20 Analyzed: 06/05/20					
C6-C12	726	25.0	mg/kg wet	800		90.8	85-115			
>C12-C28	778	25.0	"	800		97.2	85-115			
Surrogate: 1-Chlorooctane	145		"	160		90.9	70-130			
Surrogate: o-Terphenyl	68.2		"	80.0		85.3	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
 Project Number: [none]
 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F0304 - TX 1005

Calibration Check (P0F0304-CCV2)

Prepared: 06/03/20 Analyzed: 06/05/20

C6-C12	683	25.0	mg/kg wet	800		85.3	85-115			
>C12-C28	756	25.0	"	800		94.5	85-115			
Surrogate: 1-Chlorooctane	136		"	160		84.8	70-130			
Surrogate: o-Terphenyl	65.4		"	80.0		81.8	70-130			

Duplicate (P0F0304-DUP1)

Source: 0F03003-02

Prepared: 06/03/20 Analyzed: 06/05/20

C6-C12	17.3	26.0	mg/kg dry		21.5			21.8	20	
>C12-C28	15.3	26.0	"		ND				20	
Surrogate: 1-Chlorooctane	154		"	167		92.3	70-130			
Surrogate: o-Terphenyl	89.1		"	83.3		107	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton SWD
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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
- 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

Report Approved By:  Date: 6/10/2020

Brent Barron, Laboratory Director/Technical Director

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

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

**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 Mainline
Project Number: [none]
Location: Lea County, NM
Lab Order Number: 0J14011



Current Certification

Report Date: 10/23/20

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	0J14011-01	Soil	10/08/20 14:00	10-12-2020 12:00
S-2	0J14011-02	Soil	10/08/20 14:06	10-12-2020 12:00
S-3	0J14011-03	Soil	10/08/20 14:15	10-12-2020 12:00
S-4	0J14011-04	Soil	10/08/20 14:22	10-12-2020 12:00
S-5	0J14011-05	Soil	10/08/20 14:31	10-12-2020 12:00
S-6	0J14011-06	Soil	10/08/20 14:45	10-12-2020 12:00
S-7	0J14011-07	Soil	10/08/20 14:58	10-12-2020 12:00
S-8	0J14011-08	Soil	10/08/20 15:10	10-12-2020 12:00
S-9	0J14011-09	Soil	10/08/20 15:20	10-12-2020 12:00
S-10	0J14011-10	Soil	10/08/20 15:33	10-12-2020 12:00
S-11	0J14011-11	Soil	10/08/20 15:42	10-12-2020 12:00
S-12	0J14011-12	Soil	10/08/20 15:53	10-12-2020 12:00
S-13	0J14011-13	Soil	10/08/20 16:05	10-12-2020 12:00
S-14	0J14011-14	Soil	10/08/20 16:17	10-12-2020 12:00
S-15	0J14011-15	Soil	10/08/20 16:29	10-12-2020 12:00
S-16	0J14011-16	Soil	10/08/20 16:38	10-12-2020 12:00
S-17	0J14011-17	Soil	10/08/20 16:50	10-12-2020 12:00

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-1
0J14011-01 (Soil)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 16:30	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 16:30	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 16:30	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 16:30	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 16:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	75-125		P0J2210	10/22/20 13:39	10/22/20 16:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0J2210	10/22/20 13:39	10/22/20 16:30	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	156	1.05	mg/kg dry	5	P0J1614	10/16/20 16:09	10/17/20 07:18	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 17:27	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 17:27	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 17:27	TPH 8015M	
Surrogate: 1-Chlorooctane		71.8 %	70-130		P0J2209	10/22/20 13:30	10/22/20 17:27	TPH 8015M	
Surrogate: o-Terphenyl		75.9 %	70-130		P0J2209	10/22/20 13:30	10/22/20 17:27	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 17:27	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-2
0J14011-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 16:51	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 16:51	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 16:51	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 16:51	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 16:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		122 %	75-125		P0J2210	10/22/20 13:39	10/22/20 16:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0J2210	10/22/20 13:39	10/22/20 16:51	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	83.2	1.02	mg/kg dry	10	P0J1614	10/16/20 16:09	10/17/20 07:34	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 17:51	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 17:51	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 17:51	TPH 8015M	
Surrogate: 1-Chlorooctane		76.6 %	70-130		P0J2209	10/22/20 13:30	10/22/20 17:51	TPH 8015M	
Surrogate: o-Terphenyl		70.4 %	70-130		P0J2209	10/22/20 13:30	10/22/20 17:51	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 17:51	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-3
0J14011-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:12	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:12	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:12	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:12	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0J2210	10/22/20 13:39	10/22/20 17:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P0J2210	10/22/20 13:39	10/22/20 17:12	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	74.6	1.02	mg/kg dry	10	P0J1614	10/16/20 16:09	10/17/20 07:51	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 18:14	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 18:14	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 18:14	TPH 8015M	
Surrogate: 1-Chlorooctane		82.9 %	70-130		P0J2209	10/22/20 13:30	10/22/20 18:14	TPH 8015M	
Surrogate: o-Terphenyl		94.1 %	70-130		P0J2209	10/22/20 13:30	10/22/20 18:14	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 18:14	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-4
0J14011-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:32	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:32	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:32	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:32	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:32	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		121 %	75-125		P0J2210	10/22/20 13:39	10/22/20 17:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0J2210	10/22/20 13:39	10/22/20 17:32	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	185	1.15	mg/kg dry	5	P0J1614	10/16/20 16:09	10/17/20 08:07	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 18:37	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 18:37	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 18:37	TPH 8015M	
Surrogate: 1-Chlorooctane		89.4 %	70-130		P0J2209	10/22/20 13:30	10/22/20 18:37	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P0J2209	10/22/20 13:30	10/22/20 18:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 18:37	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-5
0J14011-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:53	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:53	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:53	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:53	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 17:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P0J2210	10/22/20 13:39	10/22/20 17:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.9 %	75-125		P0J2210	10/22/20 13:39	10/22/20 17:53	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	81.4	1.15	mg/kg dry	10	P0J1614	10/16/20 16:09	10/17/20 08:23	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 19:00	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 19:00	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 19:00	TPH 8015M	
Surrogate: 1-Chlorooctane		90.7 %	70-130		P0J2209	10/22/20 13:30	10/22/20 19:00	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P0J2209	10/22/20 13:30	10/22/20 19:00	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 19:00	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-6
0J14011-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	POJ2210	10/22/20 13:39	10/22/20 18:14	EPA 8021B	
Toluene	0.00175	0.00101	mg/kg dry	1	POJ2210	10/22/20 13:39	10/22/20 18:14	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	POJ2210	10/22/20 13:39	10/22/20 18:14	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	POJ2210	10/22/20 13:39	10/22/20 18:14	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	POJ2210	10/22/20 13:39	10/22/20 18:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	75-125		POJ2210	10/22/20 13:39	10/22/20 18:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		POJ2210	10/22/20 13:39	10/22/20 18:14	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	52.4	1.01	mg/kg dry	10	POJ1614	10/16/20 16:09	10/17/20 08:39	EPA 300.0	
% Moisture	1.0	0.1	%	1	POJ1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	POJ2209	10/22/20 13:30	10/22/20 19:23	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	POJ2209	10/22/20 13:30	10/22/20 19:23	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	POJ2209	10/22/20 13:30	10/22/20 19:23	TPH 8015M	
Surrogate: 1-Chlorooctane		87.5 %	70-130		POJ2209	10/22/20 13:30	10/22/20 19:23	TPH 8015M	
Surrogate: o-Terphenyl		87.7 %	70-130		POJ2209	10/22/20 13:30	10/22/20 19:23	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 19:23	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-7
0J14011-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 18:34	EPA 8021B	
Toluene	0.00111	0.00102	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 18:34	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 18:34	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 18:34	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 18:34	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P0J2210	10/22/20 13:39	10/22/20 18:34	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0J2210	10/22/20 13:39	10/22/20 18:34	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	346	1.02	mg/kg dry	1	P0J1614	10/16/20 16:09	10/17/20 08:56	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 19:46	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 19:46	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 19:46	TPH 8015M	
Surrogate: 1-Chlorooctane		88.5 %	70-130		P0J2209	10/22/20 13:30	10/22/20 19:46	TPH 8015M	
Surrogate: o-Terphenyl		82.6 %	70-130		P0J2209	10/22/20 13:30	10/22/20 19:46	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 19:46	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-8
0J14011-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 18:55	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 18:55	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 18:55	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 18:55	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 18:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	75-125		P0J2210	10/22/20 13:39	10/22/20 18:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0J2210	10/22/20 13:39	10/22/20 18:55	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	180	1.05	mg/kg dry	5	P0J1614	10/16/20 16:09	10/17/20 09:12	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 20:08	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 20:08	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 20:08	TPH 8015M	
Surrogate: 1-Chlorooctane		89.9 %	70-130		P0J2209	10/22/20 13:30	10/22/20 20:08	TPH 8015M	
Surrogate: o-Terphenyl		94.3 %	70-130		P0J2209	10/22/20 13:30	10/22/20 20:08	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 20:08	calc	

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.

1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-9
0J14011-09 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 19:16	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 19:16	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 19:16	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 19:16	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 19:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0J2210	10/22/20 13:39	10/22/20 19:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	75-125		P0J2210	10/22/20 13:39	10/22/20 19:16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	185	1.05	mg/kg dry	5	P0J1902	10/19/20 08:00	10/19/20 12:40	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 20:31	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 20:31	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 20:31	TPH 8015M	
Surrogate: 1-Chlorooctane		91.4 %	70-130		P0J2209	10/22/20 13:30	10/22/20 20:31	TPH 8015M	
Surrogate: o-Terphenyl		95.9 %	70-130		P0J2209	10/22/20 13:30	10/22/20 20:31	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 20:31	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-10
0J14011-10 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 19:36	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 19:36	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 19:36	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 19:36	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 19:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0J2210	10/22/20 13:39	10/22/20 19:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-125		P0J2210	10/22/20 13:39	10/22/20 19:36	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	71.3	1.01	mg/kg dry	10	P0J1902	10/19/20 08:00	10/19/20 13:29	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 20:54	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 20:54	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 20:54	TPH 8015M	
Surrogate: 1-Chlorooctane		90.4 %	70-130		P0J2209	10/22/20 13:30	10/22/20 20:54	TPH 8015M	
Surrogate: o-Terphenyl		87.5 %	70-130		P0J2209	10/22/20 13:30	10/22/20 20:54	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 20:54	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-11**0J14011-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 20:38	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 20:38	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 20:38	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 20:38	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 20:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.8 %	75-125		P0J2210	10/22/20 13:39	10/22/20 20:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P0J2210	10/22/20 13:39	10/22/20 20:38	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	80.2	1.03	mg/kg dry	10	P0J1902	10/19/20 08:00	10/19/20 13:45	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 22:02	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 22:02	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 22:02	TPH 8015M	
Surrogate: 1-Chlorooctane		91.1 %	70-130		P0J2209	10/22/20 13:30	10/22/20 22:02	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P0J2209	10/22/20 13:30	10/22/20 22:02	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 22:02	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-12
0J14011-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 20:58	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 20:58	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 20:58	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 20:58	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 20:58	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.0 %	75-125		P0J2210	10/22/20 13:39	10/22/20 20:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		121 %	75-125		P0J2210	10/22/20 13:39	10/22/20 20:58	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	84.0	1.06	mg/kg dry	10	P0J1902	10/19/20 08:00	10/19/20 14:01	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 22:24	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 22:24	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 22:24	TPH 8015M	
Surrogate: 1-Chlorooctane		96.9 %	70-130		P0J2209	10/22/20 13:30	10/22/20 22:24	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P0J2209	10/22/20 13:30	10/22/20 22:24	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 22:24	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-13**0J14011-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:18	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:18	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:18	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:18	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0J2210	10/22/20 13:39	10/22/20 21:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	75-125		P0J2210	10/22/20 13:39	10/22/20 21:18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	204	1.15	mg/kg dry	5	P0J1902	10/19/20 08:00	10/19/20 14:18	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 22:47	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 22:47	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 22:47	TPH 8015M	
Surrogate: 1-Chlorooctane		96.8 %	70-130		P0J2209	10/22/20 13:30	10/22/20 22:47	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P0J2209	10/22/20 13:30	10/22/20 22:47	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 22:47	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-14
0J14011-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:39	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:39	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:39	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:39	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.6 %	75-125		P0J2210	10/22/20 13:39	10/22/20 21:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	75-125		P0J2210	10/22/20 13:39	10/22/20 21:39	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	202	1.15	mg/kg dry	5	P0J1902	10/19/20 08:00	10/19/20 14:34	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 23:09	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 23:09	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 23:09	TPH 8015M	
Surrogate: 1-Chlorooctane		93.5 %	70-130		P0J2209	10/22/20 13:30	10/22/20 23:09	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P0J2209	10/22/20 13:30	10/22/20 23:09	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 23:09	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-15
0J14011-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:59	EPA 8021B	
Toluene	0.00113	0.00102	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:59	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:59	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:59	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 21:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.7 %	75-125		P0J2210	10/22/20 13:39	10/22/20 21:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	75-125		P0J2210	10/22/20 13:39	10/22/20 21:59	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	572	1.02	mg/kg dry	1	P0J1902	10/19/20 08:00	10/19/20 14:50	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 23:32	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 23:32	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 23:32	TPH 8015M	
Surrogate: 1-Chlorooctane		91.8 %	70-130		P0J2209	10/22/20 13:30	10/22/20 23:32	TPH 8015M	
Surrogate: o-Terphenyl		89.2 %	70-130		P0J2209	10/22/20 13:30	10/22/20 23:32	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 23:32	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-16
0J14011-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 22:19	EPA 8021B	
Toluene	0.00116	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 22:19	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 22:19	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 22:19	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0J2210	10/22/20 13:39	10/22/20 22:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	75-125		P0J2210	10/22/20 13:39	10/22/20 22:19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0J2210	10/22/20 13:39	10/22/20 22:19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	550	1.01	mg/kg dry	10	P0J1902	10/19/20 08:00	10/19/20 15:07	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0J1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 23:54	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 23:54	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0J2209	10/22/20 13:30	10/22/20 23:54	TPH 8015M	
Surrogate: 1-Chlorooctane		95.4 %	70-130		P0J2209	10/22/20 13:30	10/22/20 23:54	TPH 8015M	
Surrogate: o-Terphenyl		93.2 %	70-130		P0J2209	10/22/20 13:30	10/22/20 23:54	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	10/22/20 13:30	10/22/20 23:54	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-17**0J14011-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	POJ2210	10/22/20 13:39	10/22/20 22:40	EPA 8021B	
Toluene	0.00149	0.00101	mg/kg dry	1	POJ2210	10/22/20 13:39	10/22/20 22:40	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	POJ2210	10/22/20 13:39	10/22/20 22:40	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	POJ2210	10/22/20 13:39	10/22/20 22:40	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	POJ2210	10/22/20 13:39	10/22/20 22:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	75-125		POJ2210	10/22/20 13:39	10/22/20 22:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		POJ2210	10/22/20 13:39	10/22/20 22:40	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	60.4	1.01	mg/kg dry	10	POJ1902	10/19/20 08:00	10/19/20 15:23	EPA 300.0	
% Moisture	1.0	0.1	%	1	POJ1501	10/15/20 09:22	10/15/20 09:26	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	POJ2209	10/22/20 13:30	10/23/20 00:16	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	POJ2209	10/22/20 13:30	10/23/20 00:16	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	POJ2209	10/22/20 13:30	10/23/20 00:16	TPH 8015M	
Surrogate: 1-Chlorooctane		92.3 %	70-130		POJ2209	10/22/20 13:30	10/23/20 00:16	TPH 8015M	
Surrogate: o-Terphenyl		92.2 %	70-130		POJ2209	10/22/20 13:30	10/23/20 00:16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	10/22/20 13:30	10/23/20 00:16	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0J2210 - General Preparation (GC)**Blank (P0J2210-BLK1)**

Prepared & Analyzed: 10/22/20

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	0.142		"	0.120		119	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.7	75-125			

LCS (P0J2210-BS1)

Prepared & Analyzed: 10/22/20

Benzene	0.0875	0.00100	mg/kg wet	0.100		87.5	70-130			
Toluene	0.0908	0.00100	"	0.100		90.8	70-130			
Ethylbenzene	0.0936	0.00100	"	0.100		93.6	70-130			
Xylene (p/m)	0.185	0.00200	"	0.200		92.4	70-130			
Xylene (o)	0.102	0.00100	"	0.100		102	70-130			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		111	75-125			

LCS Dup (P0J2210-BSD1)

Prepared & Analyzed: 10/22/20

Benzene	0.0861	0.00100	mg/kg wet	0.100		86.1	70-130	1.68	20	
Toluene	0.0833	0.00100	"	0.100		83.3	70-130	8.56	20	
Ethylbenzene	0.0866	0.00100	"	0.100		86.6	70-130	7.85	20	
Xylene (p/m)	0.182	0.00200	"	0.200		90.9	70-130	1.60	20	
Xylene (o)	0.0978	0.00100	"	0.100		97.8	70-130	4.28	20	
Surrogate: 4-Bromofluorobenzene	0.145		"	0.120		121	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			

Calibration Blank (P0J2210-CCB1)

Prepared & Analyzed: 10/22/20

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	0.119		"	0.120		99.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.135		"	0.120		113	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0J2210 - General Preparation (GC)**Calibration Blank (P0J2210-CCB2)**

Prepared & Analyzed: 10/22/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.146		"	0.120		122	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	75-125			

Calibration Check (P0J2210-CCV1)

Prepared & Analyzed: 10/22/20

Benzene	0.0918	0.00100	mg/kg wet	0.100		91.8	80-120			
Toluene	0.0940	0.00100	"	0.100		94.0	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		94.9	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.135		"	0.120		112	75-125			

Calibration Check (P0J2210-CCV2)

Prepared & Analyzed: 10/22/20

Benzene	0.0927	0.00100	mg/kg wet	0.100		92.7	80-120			
Toluene	0.0882	0.00100	"	0.100		88.2	80-120			
Ethylbenzene	0.0968	0.00100	"	0.100		96.8	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.5	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.144		"	0.120		120	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.1	75-125			

Calibration Check (P0J2210-CCV3)

Prepared & Analyzed: 10/22/20

Benzene	0.0818	0.00100	mg/kg wet	0.100		81.8	80-120			
Toluene	0.0844	0.00100	"	0.100		84.4	80-120			
Ethylbenzene	0.0889	0.00100	"	0.100		88.9	80-120			
Xylene (p/m)	0.166	0.00200	"	0.200		83.1	80-120			
Xylene (o)	0.0955	0.00100	"	0.100		95.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.134		"	0.120		112	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0J2210 - General Preparation (GC)

Matrix Spike (P0J2210-MS1)	Source: 0J14011-01			Prepared & Analyzed: 10/22/20						
Benzene	0.0600	0.00101	mg/kg dry	0.101	ND	59.4	80-120			QM-07
Toluene	0.0501	0.00101	"	0.101	0.000798	48.8	80-120			QM-07
Ethylbenzene	0.0585	0.00101	"	0.101	ND	57.9	80-120			QM-07
Xylene (p/m)	0.0979	0.00202	"	0.202	ND	48.4	80-120			QM-07
Xylene (o)	0.0475	0.00101	"	0.101	ND	47.1	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.125		"	0.121		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.121		115	75-125			

Matrix Spike Dup (P0J2210-MSD1)	Source: 0J14011-01			Prepared & Analyzed: 10/22/20						
Benzene	0.0561	0.00101	mg/kg dry	0.101	ND	55.5	80-120	6.84	20	QM-07
Toluene	0.0471	0.00101	"	0.101	0.000798	45.8	80-120	6.23	20	QM-07
Ethylbenzene	0.0592	0.00101	"	0.101	ND	58.6	80-120	1.12	20	QM-07
Xylene (p/m)	0.0990	0.00202	"	0.202	ND	49.0	80-120	1.16	20	QM-07
Xylene (o)	0.0484	0.00101	"	0.101	ND	47.9	80-120	1.79	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.141		"	0.121		116	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.121		102	75-125			

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

Project: Denton Mainline
 Project Number: [none]
 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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 P0J1501 - *** DEFAULT PREP ***										
Blank (P0J1501-BLK1)	Prepared & Analyzed: 10/15/20									
% Moisture	ND	0.1	%							
Blank (P0J1501-BLK2)	Prepared & Analyzed: 10/15/20									
% Moisture	ND	0.1	%							
Blank (P0J1501-BLK3)	Prepared & Analyzed: 10/15/20									
% Moisture	ND	0.1	%							
Blank (P0J1501-BLK4)	Prepared & Analyzed: 10/15/20									
% Moisture	ND	0.1	%							
Duplicate (P0J1501-DUP1)	Source: 0J13002-10			Prepared & Analyzed: 10/15/20						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P0J1501-DUP2)	Source: 0J14002-04			Prepared & Analyzed: 10/15/20						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P0J1501-DUP3)	Source: 0J14002-19			Prepared & Analyzed: 10/15/20						
% Moisture	11.0	0.1	%		10.0			9.52	20	
Duplicate (P0J1501-DUP4)	Source: 0J14002-29			Prepared & Analyzed: 10/15/20						
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P0J1501-DUP5)	Source: 0J14009-01			Prepared & Analyzed: 10/15/20						
% Moisture	14.0	0.1	%		12.0			15.4	20	
Duplicate (P0J1501-DUP6)	Source: 0J14010-05			Prepared & Analyzed: 10/15/20						
% Moisture	2.0	0.1	%		1.0			66.7	20	

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Fax: 43-687-1570

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
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Batch P0J1501 - * DEFAULT PREP *****

Duplicate (P0J1501-DUP7)		Source: 0J14011-13			Prepared & Analyzed: 10/15/20					
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0J1501-DUP8)		Source: 0J14012-06			Prepared & Analyzed: 10/15/20					
% Moisture	17.0	0.1	%		17.0			0.00	20	

Batch P0J1614 - * DEFAULT PREP *****

Blank (P0J1614-BLK1)		Prepared: 10/16/20 Analyzed: 10/17/20								
Chloride	ND	1.00	mg/kg wet							
LCS (P0J1614-BS1)		Prepared: 10/16/20 Analyzed: 10/17/20								
Chloride	435	1.00	mg/kg wet	400		109	80-120			
LCS Dup (P0J1614-BSD1)		Prepared: 10/16/20 Analyzed: 10/17/20								
Chloride	443	1.00	mg/kg wet	400		111	80-120	1.81	20	
Calibration Blank (P0J1614-CCB1)		Prepared: 10/16/20 Analyzed: 10/17/20								
Chloride	0.00		mg/kg wet							
Calibration Blank (P0J1614-CCB2)		Prepared: 10/16/20 Analyzed: 10/17/20								
Chloride	0.00		mg/kg wet							
Calibration Check (P0J1614-CCV1)		Prepared: 10/16/20 Analyzed: 10/17/20								
Chloride	19.1		mg/kg	20.0		95.4	0-200			
Calibration Check (P0J1614-CCV2)		Prepared: 10/16/20 Analyzed: 10/17/20								
Chloride	18.9		mg/kg	20.0		94.4	0-200			

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Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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
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Batch P0J1614 - * DEFAULT PREP *******Calibration Check (P0J1614-CCV3)**

Prepared: 10/16/20 Analyzed: 10/17/20

Chloride	20.3		mg/kg	20.0		101	0-200			
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Matrix Spike (P0J1614-MS1)

Source: 0J14008-03

Prepared: 10/16/20 Analyzed: 10/17/20

Chloride	1820	1.06	mg/kg dry	532	1020	150	80-120			QM-05
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Matrix Spike (P0J1614-MS2)

Source: 0J14010-02

Prepared: 10/16/20 Analyzed: 10/17/20

Chloride	1100	1.06	mg/kg dry	532	680	79.5	80-120			QM-05
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Matrix Spike Dup (P0J1614-MSD1)

Source: 0J14008-03

Prepared: 10/16/20 Analyzed: 10/17/20

Chloride	1560	1.06	mg/kg dry	532	1020	101	80-120	15.5	20	
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Matrix Spike Dup (P0J1614-MSD2)

Source: 0J14010-02

Prepared: 10/16/20 Analyzed: 10/17/20

Chloride	1110	1.06	mg/kg dry	532	680	80.8	80-120	0.614	20	
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Batch P0J1902 - * DEFAULT PREP *******Blank (P0J1902-BLK1)**

Prepared & Analyzed: 10/19/20

Chloride	ND	1.00	mg/kg wet							
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LCS (P0J1902-BS1)

Prepared & Analyzed: 10/19/20

Chloride	385	1.00	mg/kg wet	400		96.2	80-120			
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LCS Dup (P0J1902-BSD1)

Prepared & Analyzed: 10/19/20

Chloride	370	1.00	mg/kg wet	400		92.6	80-120	3.81	20	
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Calibration Check (P0J1902-CCV1)

Prepared & Analyzed: 10/19/20

Chloride	18.6		mg/kg	20.0		93.1	0-200			
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Permian Basin Environmental Lab, L.P.

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Fasken Oil & Ranch, Ltd.
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Project: Denton Mainline
 Project Number: [none]
 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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 P0J1902 - *** DEFAULT PREP ***										
Calibration Check (P0J1902-CCV2)				Prepared & Analyzed: 10/19/20						
Chloride	18.5		mg/kg	20.0		92.7	0-200			
Matrix Spike (P0J1902-MS1)				Source: 0J14011-09 Prepared & Analyzed: 10/19/20						
Chloride	2330	5.05	mg/kg dry	505	1850	95.2	80-120			
Matrix Spike (P0J1902-MS2)				Source: 0J14012-02 Prepared & Analyzed: 10/19/20						
Chloride	5220	6.10	mg/kg dry	610	4720	82.6	80-120			
Matrix Spike Dup (P0J1902-MSD1)				Source: 0J14011-09 Prepared & Analyzed: 10/19/20						
Chloride	2250	5.05	mg/kg dry	505	1850	79.4	80-120	3.49	20	QM-05
Matrix Spike Dup (P0J1902-MSD2)				Source: 0J14012-02 Prepared & Analyzed: 10/19/20						
Chloride	5220	6.10	mg/kg dry	610	4720	81.7	80-120	0.102	20	

Permian Basin Environmental Lab, L.P.

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Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0J2209 - TX 1005

Blank (P0J2209-BLK1)

Prepared & Analyzed: 10/22/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	82.4		"	100		82.4	70-130			
Surrogate: o-Terphenyl	44.7		"	50.0		89.4	70-130			

LCS (P0J2209-BS1)

Prepared & Analyzed: 10/22/20

C6-C12	777	25.0	mg/kg wet	1000		77.7	75-125			
>C12-C28	919	25.0	"	1000		91.9	75-125			
Surrogate: 1-Chlorooctane	99.4		"	100		99.4	70-130			
Surrogate: o-Terphenyl	43.5		"	50.0		86.9	70-130			

LCS Dup (P0J2209-BSD1)

Prepared & Analyzed: 10/22/20

C6-C12	753	25.0	mg/kg wet	1000		75.3	75-125	3.16	20	
>C12-C28	897	25.0	"	1000		89.7	75-125	2.41	20	
Surrogate: 1-Chlorooctane	98.0		"	100		98.0	70-130			
Surrogate: o-Terphenyl	44.8		"	50.0		89.5	70-130			

Calibration Check (P0J2209-CCV1)

Prepared & Analyzed: 10/22/20

C6-C12	426	25.0	mg/kg wet	500		85.2	85-115			
>C12-C28	511	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	92.8		"	100		92.8	70-130			
Surrogate: o-Terphenyl	44.7		"	50.0		89.4	70-130			

Calibration Check (P0J2209-CCV2)

Prepared & Analyzed: 10/22/20

C6-C12	487	25.0	mg/kg wet	500		97.3	85-115			
>C12-C28	572	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	70-130			

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Midland TX, 79707

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0J2209 - TX 1005**Calibration Check (P0J2209-CCV3)**

Prepared: 10/22/20 Analyzed: 10/23/20

C6-C12	498	25.0	mg/kg wet	500		99.7	85-115			
>C12-C28	552	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	52.0		"	50.0		104	70-130			

Matrix Spike (P0J2209-MS1)

Source: 0J14011-17

Prepared: 10/22/20 Analyzed: 10/23/20

C6-C12	995	25.3	mg/kg dry	1010	11.9	97.3	75-125			
>C12-C28	1230	25.3	"	1010	12.6	121	75-125			
Surrogate: 1-Chlorooctane	117		"	101		116	70-130			
Surrogate: o-Terphenyl	45.9		"	50.5		90.9	70-130			

Matrix Spike Dup (P0J2209-MSD1)

Source: 0J14011-17

Prepared: 10/22/20 Analyzed: 10/23/20

C6-C12	1010	25.3	mg/kg dry	1010	11.9	98.8	75-125	1.55	20	
>C12-C28	1260	25.3	"	1010	12.6	123	75-125	2.26	20	
Surrogate: 1-Chlorooctane	116		"	101		115	70-130			
Surrogate: o-Terphenyl	45.6		"	50.5		90.3	70-130			

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.

1400 Rankin HWY Midland, TX 79701 432-686-7235


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

Project: Denton Mainline
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- 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

Report Approved By:  Date: 10/23/2020

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

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

CONDITIONS

Action 17404

CONDITIONS OF APPROVAL

Operator: FASKEN OIL & RANCH LTD Road Midland, TX79707	6101 Holiday Hill	OGRID: 151416	Action Number: 17404	Action Type: C-141
OCD Reviewer chensley		Condition None		