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

Responsible Party: Fasken Oil and Ranch, Ltd

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID: 151416

Contact Name: Aaron Pachlhofer Contact Telephone: 432-687-1777		elephone: 432-687-1777				
Contact email: aaronp@forl.com				Incident #	NCS2003132855	
Contact mailing address: 6101 Holiday Hill Road, Midland, TX 79707		TX 79707				
			Location	of Release So	ource	
Latitude 33	3.040968°		(NAD 83 in dec	Longitude _cimal degrees to 5 decim	-103.173078° aal places)	
Site Name De	enton No. 5 S	SWD Battery		Site Type:	SWD Battery	
Date Release	Discovered 1	11/29/19		API# 30-02	25-05270	
Unit Letter	Section	Township	Range	Cour	nty	
N	2	15S	37E	Lea		
Crude Oil		(s) Released (Select all Volume Released	that apply and attach	d Volume of I	justification for the volumes provided below) Volume Recovered (bbls)	
X Produced	Water	Volume Released	d (bbls) 850		Volume Recovered (bbls) 840	
		Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?		X Yes No		
Condensa	te				Volume Recovered (bbls)	
Natural G	as	Volume Released (Mcf) Volume Recovered (Mcf)		Volume Recovered (Mcf)		
Other (des	scribe)	Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)		Volume/Weight Recovered (provide units)		
line. Leak ra	n inside fire		ery. Leak was		el line that ties into gun barrel and to main SWD ly when discovered by relief pumper. 3 vacuum	
area had red	ceived appr	oximately 1 inch	of rain the prev		ry rainfall, Fasken field personnel reported that the ttery has a high firewall around it and lies within a was affected.	

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Incident ID	
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Facility ID	
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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?	
elease as defined by 9.15.29.7(A) NMAC? The release is a major release as defined by NMAC.		
Vvas □ Na		
X Yes No		
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	
Notice was given via tele	phone by Aaron Pachlhofer to Fortner at 3:30 MST on 11/29/19.	
rotice was given via tele	phone by Aaron I achinoler to Forther at 3.30 MST on 11/29/19.	
	Initial Response	
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury	
X The source of the rel	ease has been stopped.	
X The impacted area ha	as been secured to protect human health and the environment.	
X Released materials h	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
X All free liquids and r	ecoverable materials have been removed and managed appropriately.	
If all the actions describe	d above have <u>not</u> been undertaken, explain why:	
	AC the responsible party may commence remediation immediately after discovery of a release. If remediation	
	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the info	rmation 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	
	ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In	
addition, OCD acceptance of and/or regulations.	of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws	
C		
Printed Name: <u>Aaron Pa</u>	chlhoferTitle: Environmental Coordinator	
Signature:	Date: <u>1/31/2020</u>	
email: aaronp@forl.com	Telephone: <u>432-687-1777</u>	
OCD Only		
Received by:	Date:	

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Oil Conservation Division

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Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	Approx. 70 (ft bgs)
Did this release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐Yes 🏻 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐Yes 🏻 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐Yes 🏻 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐Yes 🏻 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐Yes 🏻 No
Are the lateral extents of the release within 300 feet of a wetland?	☐Yes 🏻 No
Are the lateral extents of the release overlying a subsurface mine?	☐Yes 🏻 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐Yes 🏻 No
Are the lateral extents of the release within a 100-year floodplain?	☐Yes 🏻 No
Did the release impact areas not on an exploration, development, production, or storage site?	☐Yes 🏻 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and verticontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	ical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody	5.

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

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

Printed Name: <u>Aaron Pachlhofer</u>	Title: Environmental Coordinator
Signature:	Date: <u>1/31/2020</u>
email: <u>aaronp@forl.com</u>	Telephone: 432-687-1777
OCD Only	
Received by:	Date:

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District RP	
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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Aaron Pachlhofer Title: Environmental Coordinator
Signature: Date:
email: aaronp@forl.com Telephone: 432-687-1777
OCD Only
Received by:Date:
Approved
Signature: Date:

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X

State of New Mexico Oil Conservation Division

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

New 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	
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 heir operations have failed to adequately investigate and reprediate contamination that pose a threat to groundwater, surface water, human realth or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with only other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and revegetate 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 MAC including notification to the OCD when reclamation and re-vegetation are complete. Title: Environmental Coordinator Date: 6/24/2020 Telephone: 432-687-1777 Telephone: 432-687-1777	
OCD Only	
Received by: Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and emediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible earty of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by:Date:	
Printed Name: Title:	



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

June 16, 2020

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

Site Closure request: Incident #NCS20033132855

Mr. Hamlet,

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

Potential Receptors

According to the New Mexico State Engineer's Office, there many water wells within 1/2 mile of the SWD battery. The closest and most recently gauged wells belong to Plains All American Pipeline, approximately 0.33 mile away at 33.038624°, -103.168008°. No gauging information is available from the from the State Engineers Office, but Camille Bryant of Plains All American Pipeline has stated that the depth to water in all wells in Section 2, T15S, R37E is 70 to 75 feet below ground surface. A copy of her email is included as an attachment. The data are consistent with Fasken monitoring wells approximately 1.5 mile to the southeast. These data are available upon request of the OCD. Additionally, supporting well information from the New Mexico Office of the State Engineer for Plains monitoring well 18 (at 33.038808°, -103.167895°, 0.33 mile away from spill) is included as an attachment. The attachment includes depth to water and well construction information.

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

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

Sample Collection and Results

Following the initial spill response, preliminary samples were collected from location S-1 on December 8, 2019 at the surface, 1 foot and 2 feet. The result of these samples showed that the surface was affected over 10,000 mg/kg, and the deeper samples contained very low chlorides concentrations. December 17, 2019 samples collected from two additional locations S-2 and S-3, from the surface and 1 foot. The results of the samples were similar to the samples collected from S-1: high chlorides at the surface, and low chlorides at 1 foot. The results of the three sample locations indicated that collecting samples from the surface and 1 foot would delineate the spill area to the limit of 10,000 mg/kg. A request was made to Robert Hamlet of NMOCD-Artesia to reduce the number of samples. Fasken was directed by Mr. Hamlet to collect no less than 35 sample locations would be required by the NMOCD. On January 28, 2020, the remaining samples were collected at locations S-4 through S-36. All locations had surface and 1 foot samples collected for chlorides laboratory analysis. BTEX and TPH were also requested at four sample locations: S-26, S-29, S-32, and S-34. Laboratory result showed that no 1-foot samples contained chlorides above the 10,000 mg/kg limit. Twelve surface sample contained chlorides above the limit: S-1, S-4, S-8, S-10, S-14, S-15, S-16, S-18, S-21, S-24, S-26, and S-29. Over limit chlorides results ranged from 10,700 mg/kg to 19,700 mg/kg chloride. No BTEX was detected in any sample above the method detection limit, and TPH was detected in very low concentrations in six of the eight sample locations where it was requested for laboratory analysis. The highest TPH result was 750 mg/kg. Please refer to the analytical summary tables for a summary of all laboratory results and the attached sight plan for sample locations.

Removal of Pad Material and Confirmation Sampling

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

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

On May 28, 2020, confirmation BTEX/TPH samples were collected from each of the twelve excavation areas and eight delineation samples were collected. Delineation samples were analyzed for BTEX/TPH and chlorides. In delineation samples chlorides ranged from 261 mg/kg to 95.1 mg/kg. all BTEX results were less than 1.0 mg/kg. The maximum benzene result was 0.00289 mg/kg. TPH ranged from 118 mg/kg to less than the method detection limit. In all delineation samples collected on May 28, BTEX was detected in two samples at less than 1.0 mg/kg. Benzene was not detected above the method detection limit in any sample. TPH ranged from 451 mg/kg to less than the method detection limit.

RECCOMENDATION

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

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

Thank You.

Aaron Pachlhofer, P.G. Environmental Coordinator

From: <u>Camille J Bryant</u>
To: <u>Aaron Pachlhofer</u>

Subject: DTV

Date: Wednesday, November 07, 2018 4:22:50 PM

Aaron,

As per our discussion this morning regarding depth to groundwater in Section 2, T15S, R37E in Lea County, New Mexico, the depth to water in this area should approximately 70 to 75 feet bgs. This depth is based on monitor wells in the area.

Thanks,

Camille J. Bryant

Remediation Supervisor
Plains All American
505 N. Big Spring, Suite 600
Midland, Texas 79701
Office: 432.221.7924

Cell: 575.441.1099

Attention:

The information contained in this message and/or attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. If you received this in error, please contact the Plains Service Desk at 713-646-4444 and delete the material from any system and destroy any copies.

This footnote also confirms that this email message has been scanned for Viruses and Content and cleared.

New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

NA

L 13629 POD13

15S 37E 11

671093 3657074

Driller License:

1456

Driller Company:

WHITE DRILLING COMPANY

Driller Name:

WHITE, JOHNNOWN.GENER

Drill Start Date:

03/10/2020

Drill Finish Date:

04/16/2020

Plug Date:

Shallow

Log File Date:

04/28/2020

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

4.00

Depth Well:

90 feet

Depth Water:

70 feet

Casing Perforations:

Top Bottom

90 60

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

5/15/20 9:57 AM

POINT OF DIVERSION SUMMARY

Photos















































Photos



























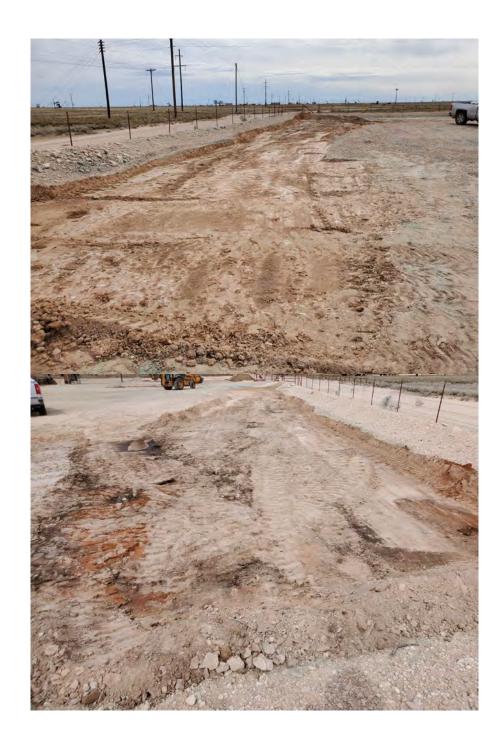










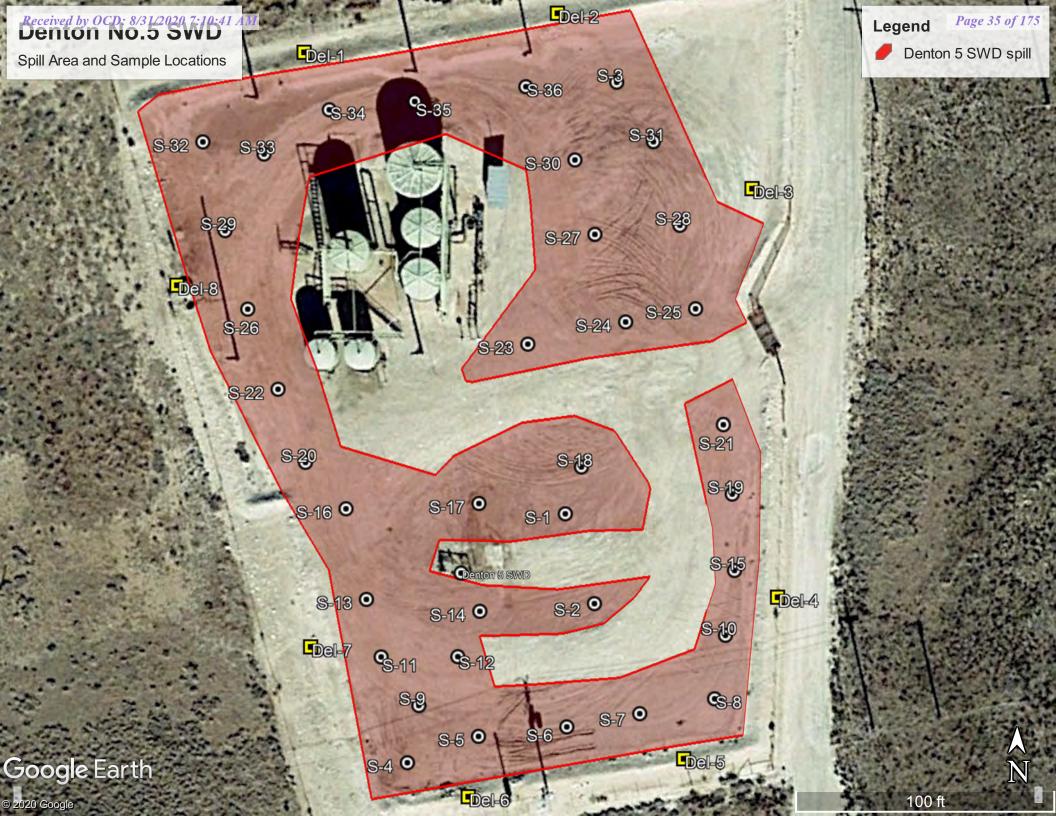
















Denton No. 5 SWD Analyitcal Sumary Table - Assessment

Date	Location	Depth	CI-	Benzene	Toluene	Ethylbensene	Xylene	TPH
12/8/2019	S-1	Surface	15700					
12/8/2019	S-1	1'	290					
12/8/2019	S-1	2'	28.5					
12/17/2019	S-2	Surface	9680					
12/17/2019	S-2	1'	3370					
12/17/2019	S-3	Surface	9560					
12/17/2019	S-3	1'	185					
1/28/2020	S-4	Surface	10700					
1/28/2020	S-4	1'	265					
1/28/2020	S-5	Surface	5310					
1/28/2020	S-5	1'	115					
1/28/2020	S-6	Surface	3590					
1/28/2020	S-6	1'	144					
1/28/2020	S-7	Surface	5690					
1/28/2020	S-7	1'	232					
1/28/2020	S-8	Surface	15400					
1/28/2020	S-8	1'	219					
1/28/2020	S-9	Surface	1270					
1/28/2020	S-9	1'	81.3					
1/28/2020	S-10	Surface	13000					
1/28/2020	S-10	1'	130					
1/28/2020	S-11	Surface	1630					
1/28/2020	S-11	1'	66.6					
1/28/2020	S-12	Surface	7080					
1/28/2020	S-12	1'	377					
1/28/2020	S-13	1'	8330					
1/28/2020		Surface	454					
1/28/2020	S-14	1'	16300					
1/28/2020		Surface	59.7					
1/28/2020	S-15	1'	12400					
1/28/2020	S-15	Surface	408					
1/28/2020	S-16	Surface	19700					
1/28/2020	S-16	1'	131					
1/28/2020	S-17	Surface	855					
1/28/2020	S-17	1'	80					
1/28/2020		Surface	18900					
1/28/2020		1'	503					
1/28/2020		Surface	7900					
1/28/2020		1'	65.5					
1/28/2020	S-20	Surface	2280					
1/28/2020	S-20	1'	81.7					
1/28/2020	S-21	Surface	14300					
1/28/2020	S-21	1'	301					

Denton No. 5 SWD Analyitcal Sumary Table - Assessment

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

Denton No. 5 SWD Analyitcal Sumary Table - Delineation

Date	Location	Depth	Cl-	Benzene	Toluene	Ethylbensene	Xylene	TPH	
5/28/2020	Del-1	6"	261	0.00289	0.0102	ND	ND		118
5/28/2020	Del-2	6"	182	0.00146	0.0064	ND	ND		30.8
5/28/2020	Del-3	6"	115	0.00155	0.0073	ND	ND	ND	
5/28/2020	Del-4	6"	95.1	0.00135	0.0066	ND	ND	ND	
5/28/2020	Del-5	6"	128	ND	ND	ND	ND	ND	
5/28/2020	Del-6	6"	210	ND	ND	ND	ND	ND	
5/28/2020	Del-7	6"	143	ND	ND	ND	ND	ND	-
5/28/2020	Del-8	6"	166	ND	ND	ND	ND	ND	

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

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

Date	Location	Depth	CI-	Benzene	Toluene	Ethylbensene	Xylene	TPH	
6/2/2020	S-1b	6"	N/R	ND	ND	ND	ND	ND	
6/2/2020	S-4b	6"	N/R	ND	ND	ND	ND		73.6
6/2/2020	S-8b	6"	N/R	ND	ND	ND	ND	ND	
6/2/2020	S-10b	6"	N/R	ND	ND	ND	ND		224
6/2/2020	S-14b	6"	N/R	ND	ND	ND	ND		79.8
6/2/2020	S-15b	6"	N/R	ND	ND	ND	ND		85
6/2/2020	S-16b	6"	N/R	ND	ND	ND	ND	ND	
6/2/2020	S-18b	6"	N/R	ND	ND	ND	ND	ND	
6/2/2020	S-21b	6"	N/R	ND	ND	ND	ND	ND	
6/2/2020	S-24b	6"	N/R	ND	ND	ND	ND		399
6/2/2020	S-26b	6"	N/R	ND	0.001	ND	ND		424
6/2/2020	S-29b	6"	N/R	ND	0.002	ND	ND		451

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



Analytical Report

Prepared for:

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

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

Lab Order Number: 9L06001



NELAP/TCEQ # T104704516-18-9

Report Date: 12/11/19

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

ANALYTICAL REPORT FOR SAMPLES

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-1 Surface 9L06001-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

oval Chamistry Payamatays by EDA / Standard Mathods Ouglity Control

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT 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

	Drew	Darron			
Report Approved By:			Date:	12/11/2019	

Brent Barron, Laboratory Director/Technical Director

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



Analytical Report

Prepared for:

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

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

Lab Order Number: 0A07002



NELAP/TCEQ # T104704516-18-9

Report Date: 01/09/20

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

ANALYTICAL REPORT FOR SAMPLES

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S2 Surface 0A07002-01 (Soil)

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S2 1 Foot 0A07002-02 (Soil)

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

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S3 Surface 0A07002-03 (Soil)

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

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S3 1 Foot 0A07002-04 (Soil)

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

Permian Basin Environmental Lab, L.P.

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

/ Standard Methods - Quality Control

		Donortie ~		Sallar Sarrar			%REC RPD			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Limit	Notes
1 mary to	- ACSUIT			Level	- ICGuit		Limis			
Batch P0A0709 - *** DEFAULT PREP ***										
Matrix Spike Dup (P0A0709-MSD1)	Source	ce: 0A07002	-01	Prepared &	Analyzed:	01/07/20				
Chloride	10900	11.2	mg/kg dry	1120	9680	112	80-120	1.63	20	
Matrix Spike Dup (P0A0709-MSD2)	Sourc	e: 0A07008	-03	Prepared &	Analyzed:	01/07/20				
Chloride	2920	11.5	mg/kg dry	1150	1730	104	80-120	0.157	20	
Batch P0A0801 - *** DEFAULT PREP ***										
Blank (P0A0801-BLK1)				Prepared &	Analyzed:	01/08/20				
% Moisture	ND	0.1	%							
Duplicate (P0A0801-DUP1)	Source	ce: 0A07006	-01	Prepared &	z Analyzed:	01/08/20				
% Moisture	15.0	0.1	%		15.0			0.00	20	
Duplicate (P0A0801-DUP2)	Sourc	e: 0A07013	-04	Prepared &	Analyzed:	01/08/20				
% Moisture	17.0	0.1	%		17.0			0.00	20	
Duplicate (P0A0801-DUP3)	Sourc	e: 0A07014	-30	Prepared &	Analyzed:	01/08/20				
% Moisture	17.0	0.1	%		17.0			0.00	20	

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Notes and Definitions

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	0 0-12		
	Bren Darron		
Report Approved By:		Date:	1/9/2020

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

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Permian Basin Environmental Lab, LP 1400 Rankin HWY Midland, TX 79701 432-686-7235

Analytical Report

Prepared for:

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



PBELAB Certification Information

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

Lab Order Number: 0A29007

Report Date: 02/19/20

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road

Midland TX, 79707

Project: Denton NO.5 SWD

Project Number: [none]

Project Manager: Aaron Pachlhofer

ANALYTICAL REPORT FOR SAMPLES

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

Permian Basin Environmental Lab, L.P.

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road

Midland TX, 79707

Project: Denton NO.5 SWD

Project Number: [none]

Project Manager: Aaron Pachlhofer

ANALYTICAL REPORT FOR SAMPLES

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

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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Permian Basin Environmental Lab, L.P.

	Result	SQL	MQL	Units	Dilution	Batch	Prepared	An	alyzed	Method	Note
S-26 Surface (0A29007-45) Soil											
Benzene	< 0.00119		0.00119	mg/kg dry	1	P0B1004	02/1	0/20	02/11/20	EPA 8021B	
Toluene	< 0.00119		0.00119	"	"	"		"	"	"	
Ethylbenzene	< 0.00119		0.00119	"	"	"		"	"	"	
Xylene (p/m)	< 0.00238		0.00238	"	"	"		"	"	"	
Xylene (o)	< 0.00119		0.00119	"	"	"		"	"	"	
Surrogate: 4-Bromofluorobenzene			99.0 %	75-12	25	"	"		"	"	
Surrogate: 1,4-Difluorobenzene			96.0 %	75-12	25	"	"		"	"	
S-26 @ 1' (0A29007-46) Soil											
Benzene	< 0.00112		0.00112	mg/kg dry	1	P0B1004	02/1	0/20	02/11/20	EPA 8021B	
Toluene	< 0.00112		0.00112	"	"	"		"	"	"	
Ethylbenzene	< 0.00112		0.00112	"	"	"		"	"	"	
Xylene (p/m)	< 0.00225		0.00225	"	"	"		"	"	"	
Xylene (o)	< 0.00112		0.00112	"	"	"		"	"	"	
Surrogate: 4-Bromofluorobenzene			99.7 %	75-12	25	"	"		"	"	
Surrogate: 1,4-Difluorobenzene			97.0 %	75-12	25	"	"		"	"	
S-29 Surface (0A29007-51) Soil											
Benzene	< 0.00110		0.00110	mg/kg dry	1	P0B1004	02/1	0/20	02/11/20	EPA 8021B	
Toluene	< 0.00110		0.00110	"	"	"		"	"	"	
Ethylbenzene	< 0.00110		0.00110	"	"	"		"	"	"	
Xylene (p/m)	< 0.00220		0.00220	"	"	"		"	"	"	
Xylene (o)	< 0.00110		0.00110	"	"	"		"	"	"	
Surrogate: 1,4-Difluorobenzene			95.3 %	75-12	25	"	"		"	"	
Surrogate: 4-Bromofluorobenzene			99.7 %	75-12	25	"	"		"	"	
S-29 @ 1' (0A29007-52) Soil											
Benzene	< 0.00118		0.00118	mg/kg dry	1	P0B1004	02/1	0/20	02/11/20	EPA 8021B	
Toluene	< 0.00118		0.00118	"	"	"		"	"	"	
Ethylbenzene	< 0.00118		0.00118	"	"	"		"	"	"	
Xylene (p/m)	< 0.00235		0.00235	"	"	"		"	"	"	
Xylene (o)	< 0.00118		0.00118	"	"	"		"	"	"	
Surrogate: 1,4-Difluorobenzene			94.0 %	75-12	25	"	"		"	"	
Surrogate: 4-Bromofluorobenzene			96.4 %	75-12	25	"	"		"	"	

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Organics by GC

Permian Basin Environmental Lab, L.P.

	Result	SQL	MQL	Units	Dilution	Batch	Prepared	An	nalyzed	Method	Not
S-32 Surface (0A29007-57) Soil											
Benzene	< 0.00103		0.00103	mg/kg dry	1	P0B1004	02/1	10/20	02/11/20	EPA 8021B	
Toluene	< 0.00103		0.00103	"	"	"		"	"	"	
Ethylbenzene	< 0.00103		0.00103	"	"	"		"	"	"	
Xylene (p/m)	< 0.00206		0.00206	"	"	"		"	"	"	
Xylene (o)	< 0.00103		0.00103	"	"	"		"	"	"	
Surrogate: 1,4-Difluorobenzene			96.3 %	75-1	25	"	"		"	"	
Surrogate: 4-Bromofluorobenzene			101 %	75-1	25	"	"		"	"	
S-32 @ 1' (0A29007-58) Soil											
Benzene	< 0.00118		0.00118	mg/kg dry	1	P0B1004	02/1	10/20	02/11/20	EPA 8021B	
Γoluene	< 0.00118		0.00118	"	"	"		"	"	"	
Ethylbenzene	< 0.00118		0.00118	"	"	"		"	"	"	
Xylene (p/m)	< 0.00235		0.00235	"	"	"		"	"	"	
Xylene (o)	< 0.00118		0.00118	"	"	"		"	"	"	
Surrogate: 1,4-Difluorobenzene			94.5 %	75-1	25	"	"		"	"	
Surrogate: 4-Bromofluorobenzene			99.5 %	75-1	25	"	"		"	"	
S-34 Surface (0A29007-61) Soil											
Benzene	< 0.00110		0.00110	mg/kg dry	1	P0B1004	02/1	10/20	02/11/20	EPA 8021B	
Toluene	< 0.00110		0.00110	"	"	"		"	"	"	
Ethylbenzene	< 0.00110		0.00110	"	"	"		"	"	"	
Xylene (p/m)	< 0.00220		0.00220	"	"	"		"	"	"	
Xylene (o)	< 0.00110		0.00110	"	"	"		"	"	"	
Surrogate: 4-Bromofluorobenzene			98.2 %	75-1	25	"	"		"	"	
Surrogate: 1,4-Difluorobenzene			95.8 %	75-1	25	"	"		"	"	
S-34 @ 1' (0A29007-62) Soil											
Benzene	< 0.00122		0.00122	mg/kg dry	1	P0B1004	02/1	10/20	02/11/20	EPA 8021B	
Гoluene	< 0.00122		0.00122	"	"	"		"	"	"	
Ethylbenzene	< 0.00122		0.00122	"	"	"		"	"	"	
Xylene (p/m)	< 0.00244		0.00244	"	"	"		"	"	"	
Xylene (o)	< 0.00122		0.00122	"	"	"		"	"	"	
Surrogate: 4-Bromofluorobenzene			102 %	75-1	25	"	"		"	"	
Surrogate: 1,4-Difluorobenzene			95.6 %	75-1	25	"	"		"	"	

Permian Basin Environmental Lab, L.P.

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

	Result	SQL	MQL	Units	Dilution	Batch	Prepared	Analyzed	Method	No
S-26 Surface (0A29007-45) Soil							Pares	, 200		
C6-C12	<29.8		29.8	mg/kg dry	1	P0B1107	02/11/20	02/11/20	TPH 8015M	
>C12-C28	198		29.8	"	,,	"	"	"	"	
>C28-C35	107		29.8	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		8	84.4 %	70-13	0	"	"	"	"	
Surrogate: o-Terphenyl			106 %	70-13	0	"	"	"	"	
S-26 @ 1' (0A29007-46) Soil										
C6-C12	<28.1		28.1	mg/kg dry	1	P0B1107	02/11/20	02/11/20	TPH 8015M	
>C12-C28	<28.1		28.1	"	"	"	"	"	"	
>C28-C35	35.7		28.1	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		8	39.0 %	70-13	0	"	"	"	"	
Surrogate: o-Terphenyl			111 %	70-13	0	"	"	"	"	
S-29 Surface (0A29007-51) Soil										
C6-C12	<27.5		27.5	mg/kg dry	1	P0B1107	02/11/20	02/14/20	TPH 8015M	
>C12-C28	162		27.5	"	"	"	"	"	"	
>C28-C35	45.4		27.5	"	"	"	"	"	n .	
Surrogate: 1-Chlorooctane			118 %	70-13	0	"	"	"	"	
Surrogate: o-Terphenyl		-	117 %	70-13	0	"	"	"	"	
S-29 @ 1' (0A29007-52) Soil										
C6-C12	<29.4		29.4	mg/kg dry	1	P0B1107	02/11/20	02/11/20	TPH 8015M	
>C12-C28	<29.4		29.4	"	"	"	"	"	"	
>C28-C35	<29.4		29.4	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane			102 %	70-13	0	"	"	"	"	
Surrogate: o-Terphenyl		ي	120 %	70-13	0	"	"	"	"	
S-32 Surface (0A29007-57) Soil										
C6-C12	<25.8		25.8	mg/kg dry	1	P0B1107	02/11/20	02/11/20	TPH 8015M	
>C12-C28	158		25.8	"	"	"	"	"	"	
>C28-C35	37.9		25.8	"	"	"	"	II .	"	
Surrogate: 1-Chlorooctane		9	08.8 %	70-13	0	"	"	"	"	
Surrogate: o-Terphenyl			117 %	70-13	0	"	"	"	"	

Permian Basin Environmental Lab, L.P.

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

Permian Basin Environmental Lab, L.P.

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

Permian Basin Environmental Lab, L.P.

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

	Result	SQL	MQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
S-19 Surface (0A29007-31) Soil										
% Moisture	8.0		0.1	%	1	P0A3003	01/30/20	01/30/20	ASTM D2216	
S-19 @ 1' (0A29007-32) Soil										
% Moisture	21.0		0.1	%	1	P0A3003	01/30/20	01/30/20	ASTM D2216	
S-20 Surface (0A29007-33) Soil									D2210	
% Moisture	5.0		0.1	%	1	P0A3003	01/30/20	01/30/20	ASTM D2216	
S-20 @ 1' (0A29007-34) Soil										
% Moisture	19.0		0.1	%	1	P0A3003	01/30/20	01/30/20	ASTM D2216	
S-21 Surface (0A29007-35) Soil									52210	
·										
% Moisture	6.0		0.1	%	1	P0A3003	01/30/20	01/30/20	ASTM D2216	
S-21 @ 1' (0A29007-36) Soil										
% Moisture	18.0		0.1	%	1	P0A3003	01/30/20	01/30/20	ASTM D2216	
S-22 Surface (0A29007-37) Soil										
% Moisture	2.0		0.1	%	1	DO 4 2002	01/20/20	01/20/20	ACTM	
% Moisture	2.0		0.1	%0	1	P0A3003	01/30/20	01/30/20	ASTM D2216	
S-22 @ 1' (0A29007-38) Soil										
% Moisture	19.0		0.1	%	1	P0A3003	01/30/20	01/30/20	ASTM D2216	
G 22 G . (0.12000F 20) G .									D2210	
S-23 Surface (0A29007-39) Soil										
% Moisture	8.0		0.1	%	1	P0A3003	01/30/20	01/30/20	ASTM D2216	
S-23 @ 1' (0A29007-40) Soil										
% Moisture	19.0		0.1	%	1	P0A3003	01/30/20	01/30/20	ASTM	
									D2216	

Permian Basin Environmental Lab, L.P.

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

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

Permian Basin Environmental Lab, L.P.

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

			Spike	Source		%REC		RPD	
Result	MQL	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Analyst://I	ETROHN					
			Prepared &	ն Analyzed:	02/18/20				
ND	10.0	mg/kg wet							
			Prepared &	ե Analyzed:	02/18/20				
411	10.0	mg/kg wet	400		103	80-120			
			Prepared &	ն Analyzed:	02/18/20				
413	10.0	mg/kg wet	400		103	80-120	0.516	20	
			Prepared 8	k Analyzed:	02/18/20				
0.495		mg/kg wet		•					
			Prepared 8	દ Analyzed:	02/18/20				
0.406		mg/kg wet							
			Prepared 8	ե Analyzed:	02/18/20				
19.7		mg/kg	20.0		98.4	0-200			
			Prepared 8	ն Analvzed:	02/18/20				
20.1	-	mg/kg	20.0		101	0-200		-	-
Sourc	e: 0A29007	7-01RE1	Prepared 8	ն Analyzed:	02/18/20				
11800	54.3	mg/kg dry	1090	10700	102	80-120			
Sourc	e: 0A29007	7-11RE1	Prepared &	k Analyzed:	02/18/20				
1760		mg/kg dry	108	1270	459	80-120			QM-07
Source	e: 0A29007	'-01RE1	Prepared &	દ Analyzed:	02/18/20				
	411 413 0.495 0.406 19.7 20.1 Source 11800	ND 10.0 411 10.0 413 10.0 0.495 0.406 19.7 20.1 Source: 0A29007 11800 54.3	ND 10.0 mg/kg wet 411 10.0 mg/kg wet 413 10.0 mg/kg wet 0.495 mg/kg wet 0.406 mg/kg wet 19.7 mg/kg 20.1 mg/kg Source: 0A29007-01RE1	Result MQL Units Level Analyst:vII Prepared & Pre	Result MQL Units Level Result Analyst: √ETROH√ Prepared & Analyzed: ND 10.0 mg/kg wet Prepared & Analyzed: 411 10.0 mg/kg wet 400 Prepared & Analyzed: 413 10.0 mg/kg wet 400 Prepared & Analyzed: 0.495 mg/kg wet Prepared & Analyzed: Analyzed: 0.406 mg/kg wet Prepared & Analyzed: Prepared & Analyzed: 19.7 mg/kg 20.0 Prepared & Analyzed: 20.1 mg/kg 20.0 Prepared & Analyzed: Source: 0A29007-01RE1 Prepared & Analyzed: Prepared & Analyzed: 11800 54.3 mg/kg dry 1090 10700	Result MQL Units Level Result %REC Analyst: //ETROHN Prepared & Analyzed: 02/18/20 ND 10.0 mg/kg wet Prepared & Analyzed: 02/18/20 411 10.0 mg/kg wet 400 103 Prepared & Analyzed: 02/18/20 0.413 10.0 mg/kg wet 400 103 Prepared & Analyzed: 02/18/20 0.495 mg/kg wet Prepared & Analyzed: 02/18/20 0.406 mg/kg wet Prepared & Analyzed: 02/18/20 19.7 mg/kg 20.0 98.4 Prepared & Analyzed: 02/18/20 20.1 101 Source: 0A29007-01RE1 Prepared & Analyzed: 02/18/20 11800 54.3 mg/kg dry 1090 10700 102	Result MQL Units Level Result %REC Limits Analyst: /IETROHN Prepared & Analyzed: 02/18/20 ND 10.0 mg/kg wet 400 103 80-120 411 10.0 mg/kg wet 400 103 80-120 413 10.0 mg/kg wet 400 103 80-120 Prepared & Analyzed: 02/18/20 0.495 mg/kg wet Prepared & Analyzed: 02/18/20 0.406 mg/kg wet Prepared & Analyzed: 02/18/20 19.7 mg/kg 20.0 98.4 0-200 Prepared & Analyzed: 02/18/20 20.1 mg/kg 20.0 101 0-200 Source: 0A29007-01RE1 Prepared & Analyzed: 02/18/20 11800 54.3 mg/kg dry 1090 10700 102 80-120	Result MQL Units Level Result %REC Limits RPD Analyst: √ETROHN Prepared & Analyzed: 02/18/20 ND 10.0 mg/kg wet Prepared & Analyzed: 02/18/20 411 10.0 mg/kg wet 400 103 80-120 413 10.0 mg/kg wet 400 103 80-120 0.516 Prepared & Analyzed: 02/18/20 0.495 mg/kg wet Prepared & Analyzed: 02/18/20 0.406 mg/kg wet Prepared & Analyzed: 02/18/20 19.7 mg/kg 20.0 98.4 0-200 Prepared & Analyzed: 02/18/20 0.200 Prepared & Analyzed: 02/18/20 20.1 mg/kg 20.0 101 0-200 Source: 0A29007-01RE1 Prepared & Analyzed: 02/18/20 11800 54.3 mg/kg dry 1090 10700 102 80-120	Result MQL Units Level Result %REC Limits RPD Limit Analyst: //ETROHN Prepared & Analyzed: 02/18/20 ND 10.0 mg/kg wet 400 103 80-120 411 10.0 mg/kg wet 400 103 80-120 413 10.0 mg/kg wet 400 103 80-120 0.516 20 Prepared & Analyzed: 02/18/20 0.495 mg/kg wet Prepared & Analyzed: 02/18/20 0.406 mg/kg wet Prepared & Analyzed: 02/18/20 19.7 mg/kg 20.0 98.4 0-200 20.1 mg/kg 20.0 101 0-200 Source: 0A29007-01RE1 Prepared & Analyzed: 02/18/20 11800 54.3 mg/kg dry 1090 10700 102 80-120

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Analyte	Result	MQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0B1803 - *** DEFAULT PREP ***				Analyst:	ETROHN					
Matrix Spike (P0B1803-MS2)	Sour	ce: 0A29007	-51RE1		Analyzed:	02/18/20				
Chloride	17500		mg/kg dry	2750	14400	114	80-120			
Matrix Spike Dup (P0B1803-MSD1)	Sour	ce: 0A29007	-41RE1	Prepared &	Analyzed:	02/18/20				
Chloride	18800	26.9	mg/kg dry	2690	15900	106	80-120	0.199	20	
Matrix Spike Dup (P0B1803-MSD2)	Sour	ce: 0A29007	-51RE1	Prepared &	Analyzed:	02/18/20				
Chloride	17500	27.5	mg/kg dry	2750	14400	113	80-120	0.0487	20	
Batch P0B1804 - *** DEFAULT PREP ***				Analyst:4H	ETROHN					
Blank (P0B1804-BLK1)				Prepared &	Analyzed:	02/18/20				
Chloride	ND	1.00	mg/kg wet							
LCS (P0B1804-BS1)				Prepared &	Analyzed:	02/18/20				
Chloride	457	1.00	mg/kg wet	400		114	80-120			
LCS Dup (P0B1804-BSD1)				Prepared &	Analyzed:	02/18/20				
Chloride	455	1.00	mg/kg wet	400		114	80-120	0.439	20	
Calibration Blank (P0B1804-CCB1)				Prepared &	Analyzed:	02/18/20				
Chloride	0.0190		mg/kg wet	1						
Calibration Check (P0B1804-CCV1)				Prepared &	z Analyzed:	02/18/20				
Chloride	20.3		mg/kg	20.0		101	0-200			
Calibration Check (P0B1804-CCV2)				Prepared: (02/18/20 Ar	nalyzed: 02/	/19/20			
Chloride	19.9		mg/kg	20.0		99.6	0-200			

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Analyte	Result	MQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0B1804 - *** DEFAULT PREP ***				Analyst:√IE	TROHN					
Matrix Spike (P0B1804-MS1)	Source:	0A29007-6	SIRE1	Prepared &	Analyzed:	02/18/20				
Chloride	8460	11.0 1	mg/kg dry	1100	7470	89.6	80-120			
Matrix Spike Dup (P0B1804-MSD1)	Source:	0A29007-6	61RE1	Prepared &	Analyzed:	02/18/20				
Chloride	8490	11.0 1	mg/kg dry	1100	7470	92.6	80-120	0.387	20	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

0.120

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

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

Surrogate: 4-Bromofluorobenzene

100

75-125

0.120

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Organics by GC - Quality Control

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

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Notes and Definitions

ROI Received on Ice

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

recovery.

BULK Samples received in Bulk soil containers

MQL Method Quantitation Limit

SQL Sample Quantitation Limit

UMQL Unadjusted MQL = MQL / Dilution

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Sample

MS Matrix Spike

Dup Duplicate

Report Approved By: Date: 2/19/2020

Brent Barron, Laboratory Director/Corp. Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

Page 34 of 34

Rage 95 of 175 Received by OCD: 8/31/2020,7:10:41 AM TAT brabnat2 ☐ NPDES SUSH TAT (Pre-Schedule) 24, 48, 72 hrs Blycol N.A.A.M. Phone: 432-686-7235 TRRP RCI BTEX 8021B/6030 or BTEX 8260 Project Name: Denton No. 5 SWD eminoraries Analyze Project Loc: Lea County, NM Standard Netala: As Ag Ba Cd Cr Pb Hg Se SAR / ESP / CEC \times |X|× \times × × Pulous (CT, SO4, Alkalinity) × ₩ 0 Cations (Ca. Mg, Na. K) Project #: Report Format: ية أو 9001 XT 2001 XT Hdl Time Time :HdJ M2 108 9019 eldsloq-noN=qv 2 ഗ ഗ S ഗ S ഗ S ഗ ഗ <u>.</u>. Date Date Permian Basin Environmental Lab, LP Ofher (Specify) None eOsSsbN 10014 S. County Road 1213 HOBN Midland, Texas 79706 aaronp@forl.com [₽]OS^ZH HCI 432-687-1570 [€]ONH CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST \times \times × \times Total #. of Containers Filtered Fax No: e-mail: 10:04 9.345 9:54 10.15 24.6 9:15 10:10 4.40 9,39 03.50 Time Sampled 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 Received by: Received by: Date Sampled Ending Depth Time Beginning Depth Fasken Oil and Ranch, Ltd Date 6101 Holiday Hill Road Midland, TX 79707 Aaron Pachlhofer 432-687-1777 S-13 Surface S-11 Surface S-12 Surface S-10 Surface FIELD CODE S-9 Surface S-11 11: S-10 1' S-12 1' S-13 1¹ 5-91 Company Address: Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: elinquished by: aron Pachlhofer inquished by: inquished by: 00 ORDER#: J-8 5 2 (Vino esu del) # 84. Page 36 of 44

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

☐ NPDES TRRP Project Name: Denton No. 5 SWD Project Loc: Lea County, NM Report Format: X Standard PO #: Project #: aaronp@forl.com 432-687-1570 e-mail: Fax No: Fasken Oil and Ranch, Ltd Company Address: 6101 Holiday Hill Road Midland, TX 79707 Aaron Pachlhofer 432-687-1777 (labitise only) Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip:

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Midland, Texas 79706

Received by OCD: 8/31/2020,7:10:41 AM Page 98 of 175 Standard TAT □ NPDES SUSH TAT (Pre-Schedule) 24, 48, 72 hrs Jooyle .M.A.O.M TRRP RCI **VOCs Free of Headspace?** າ ຜູ **ໄ** BTEX 80218/6030 or BTEX 8280 Project Name: Denton No. 5 SWD Laboratory Comments: Sample Hand Delivered Project Loc: Lea County, NM Standard Metals: As Ag Ba Cd Cr Pb Hg Se SAR / ESP / CEC 1000 × × × \times × \times × Anions (CI, SO4, Alkalinity) × Report Format: X ₩ ₩ Cations (Ca, Mg, Na, K) Project #: 0.21 1X 1005 9001 XT fime 8012W 1.814 HdJ เดเกล B S ഗ ഗ ഗ Ø S ഗ ഗ CM = Ctonuqwatet 2=20||\20||q ور در Date Date Offrer (Specify) auoN eOs2seN ИаОН aaronp@forl.com °OS^ZH HCI 432-687-1570 ^EONH × × × × × × otal #. of Containers Field Fittered Fax No: e-mail: 15.15 <u>1</u>8 15:0 子の 3,5 15:04 15:08 13:4기 13:53 15.05 Time Sampled 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 Received by: Received by Date Sampled Ending Depth Time Time Beginning Depth 24/80 Fasken Oil and Ranch, Ltd Date Date 6101 Holiday Hill Road Midland, TX 79707 Aaron Pachihofer 432-687-1777 S-28 Surface S-24 Surface S-26 Surface S-27 Surface S-25 Surface FIELD CODE S-27 1' S-25 1' S-28 11 S-27 1' S-24 1' Company Address: Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: elinquished by: aron Pachihofer linguished by: linquished by: ORDER#: lab use only 3 3 ¥ (Kjuo asn qei) # 847) Page 39 of 44

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

□ NPDES en i ST TRRP Project Name: Denton No. 5 SWD Project Loc: Lea County, NM Report Format: X Standard PO #: Project #: aaronp@forl.com 432-687-1570 e-mail: Fax No: Fasken Oil and Ranch, Ltd Company Address: 6101 Holiday Hill Road Midland, TX 79707 Aaron Pachlhofer 432-687-1777 Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip:

(lab use only)

Received by OCD: 8/31/2020 7:10:41 AM

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I,	S-32 Surface			1/28/2020	14.07		×						S	_	-	×	\dashv				\dashv	\dashv	_		$\stackrel{\times}{\parallel}$	
28	S-32 1'			1/28/2020	14:12		×						S	-		×	_	- 1							$\stackrel{\times}{\parallel}$	1
54	S-33 Surface			1/28/2020	ት ነት!		×						S			×					\dashv	\dashv	_		$\stackrel{\times}{\parallel}$	
8	S-33 1'			1/28/2020	14:20									_		×			7			- 3		Main Main	35	X
Special Instructions:															<u>\$</u> % 2	bora mole	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?	量業	nent Sint sidspe		I	l II	(e)(D)(c)		99	11-20146
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Midland, Texas 79706

Received by OCD: 8/31/2020 7:10:41 AM Page 100 of 175 TAT brabnat2 ☐ NPDES 3USH TAT (Pre-Schedule) 24, 48, 72 hrs ن Glycol ☐ TRRP M.A.O.M. VOCs Free of Headspace? Labels on contaments! Custody seals on contament Project Name: Denton No. 5 SWD BIEX 8031B/2030 of BIEX 8520 Project Loc: Lea County, NM Standard Netale: As Ag Ba Cd Cr.Pb Hg Se Received: Adjusted: TCLP: SAR / ESP / CEC × × Anions (CI, SO4, Alkalinity) × Report Format: X #0A Cations (Ca, Mg, Na, K) Project #: 0021 G001 XT HdJ 8001 XT Time 3G 1 2E WG108 1.814 Hdl eldsto9-noN=9N S S ഗ S S 62]12 ഗ GW = Groundwater S=Soil/Solid Date Date Οίμει (Βρεκίη) _EO_SS_SBN HOBM aaronp@forl.com *OS^zH HCl 432-687-1570 HNO3 Total #. of Containers Field Filtered Fax No: e-mail: 14. 23 子名 14.35 15:45 14.40 4.40 Time Sampled 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 1/28/2020 Received by: Received by Date Sampled Ending Depth 200 Time E B Beginning Depth 129/20 Fasken Oil and Ranch, Ltd Date Company Address: 6101 Holiday Hill Road Midland, TX 79707 Aaron Pachihofer 432-687-1777 S-34 Surface S-35 Surface S-36 Surface FIELD CODE S-35 1' S-36 1' S-34 1 Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: linquished by: ron Pachlhofer inquished by: inquished by: ORDER# lab use only 9 9 10 10 (Vino ezu dei) # 8AJ Page 41 of 44

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

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

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

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



Analytical Report

Prepared for:

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

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

Lab Order Number: 0C03013



NELAP/TCEQ # T104704516-18-9

Report Date: 03/06/20

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Project: Denton NO.5 SWD

Project Number: [none]

Midland TX, 79707

Project Manager: Aaron Pachlhofer

ANALYTICAL REPORT FOR SAMPLES

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

		Reporting						
Analyte	Result	Limit Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

		Reporting						
Analyte	Result	Limit Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

		Reporting						
Analyte	Result	Limit Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

		Reporting						
Analyte	Result	Limit Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

		Reporting						
Analyte	Result	Limit Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

		Reporting						
Analyte	Result	Limit Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

Permian Basin Environmental Lab, L.P.

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

Permian Basin Environmental Lab, L.P.

Chloride	1070	5.62 mg/kg dry	5	P0C0312	03/03/20 16:00	03/04/20 10:30	EPA 300.0
% Moisture	11.0	0.1 %	1	P0C0504	03/05/20 08:10	03/05/20 08:18	ASTM D2216

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

Permian Basin Environmental Lab, L.P.

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0315 - *** DEFAULT PREP ***										
LCS (P0C0315-BS1)				Prepared: ()3/03/20 Aı	nalyzed: 03	/04/20			
Chloride	396	1.00	mg/kg wet	400		99.0	80-120			
LCS Dup (P0C0315-BSD1)				Prepared: (03/03/20 At	nalyzed: 03	/04/20			
Chloride	401	1.00	mg/kg wet	400		100	80-120	1.20	20	
Calibration Blank (P0C0315-CCB1)				Prepared: (03/03/20 At	nalyzed: 03	/04/20			
Chloride	0.00		mg/kg wet							
Calibration Blank (P0C0315-CCB2)				Prepared: (03/03/20 A	nalyzed: 03	/04/20			
Chloride	0.00		mg/kg wet							
Calibration Check (P0C0315-CCV1)				Prepared: (03/03/20 A	nalyzed: 03	/04/20			
Chloride	19.8		mg/kg	20.0		99.2	0-200			
Calibration Check (P0C0315-CCV2)				Prepared: (03/03/20 A	nalyzed: 03	/04/20			
Chloride	20.1		mg/kg	20.0		101	0-200			
Matrix Spike (P0C0315-MS1)	Sou	rce: 0C02010	-09	Prepared: (03/03/20 At	nalyzed: 03	/04/20			
Chloride	11900	51.5	mg/kg dry	5150	6720	101	80-120			
Matrix Spike (P0C0315-MS2)	Sou	rce: 0C02012	2-02	Prepared: (03/03/20 At	nalyzed: 03	/04/20			
Chloride	1650	5.43	mg/kg dry	543	1010	119	80-120			
Matrix Spike Dup (P0C0315-MSD1)	Sou	rce: 0C02010	-09	Prepared: (03/03/20 A ₁	nalyzed: 03	/04/20			
Chloride	12200	51.5	mg/kg dry	5150	6720	106	80-120	2.27	20	
Matrix Spike Dup (P0C0315-MSD2)	Sou	rce: 0C02012	2-02	Prepared: (03/03/20 At	nalyzed: 03	/04/20			
Chloride	1650	5.43	mg/kg dry	543	1010	118	80-120	0.402	20	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	By Barron		
Report Approved By:	July	Date:	3/6/2020

Brent Barron, Laboratory Director/Technical Director

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

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

	Pa	ge 122 of 17
Company Name	Project Manager:	VIII SKAL
Fasken Oil and Ranch,	Aaron Pachlhofer	CHAIN
	Company Name Fasken Oil and Ranch,	Project Manager: Company Name

Telephone No:

432-687-1777

Fax No: e-mail:

432-687-1570

Report Format: X Standard

TRRP

☐ NPDES

City/State/Zip:

Midland, TX 79707

Fasken Oil and Ranch, Ltd

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

	as 79706	nty Road 1213	ו במאווסווווופווומו במטן בד
Proj			

Project Name:	
Project Name: Denton No. 5 SWD	

Phone: 432-686-7235

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

Page 19 of 20

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	remperature U Received: 5 Ndjusted 6	nple Hand Delivered by Sample//Client Rep. ? by Courier? UPS 1	9 9	o Sic	Sample Containers intack VOCs Fiee of Headspace?	Laboratory Comments:	×	×	×	×	\times	×	×	$ \times $	×	×	Anions (CI, SO4, Alkalinity)	TOTAL:	ਰ		
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RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Page 20 of 20

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



Analytical Report

Prepared for:

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

Project: Denton NO.5 SWD
Project Number: [none]
Location:

Lab Order Number: 0F04011



NELAP/TCEQ # T104704516-17-8

Report Date: 06/11/20

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road

Midland TX, 79707

Project: Denton NO.5 SWD

Project Number: [none]

Project Manager: Aaron Pachlhofer

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1b	0F04011-01	Soil	06/02/20 13:20	06-02-2020 17:30
S-4b	0F04011-02	Soil	06/02/20 12:27	06-02-2020 17:30
S-8b	0F04011-03	Soil	06/02/20 12:40	06-02-2020 17:30
S-10b	0F04011-04	Soil	06/02/20 12:53	06-02-2020 17:30
S-14b	0F04011-05	Soil	06/02/20 13:15	06-02-2020 17:30
S-15b	0F04011-06	Soil	06/02/20 13:05	06-02-2020 17:30
S-16b	0F04011-07	Soil	06/02/20 13:50	06-02-2020 17:30
S-18b	0F04011-08	Soil	06/02/20 13:27	06-02-2020 17:30
S-21b	0F04011-09	Soil	06/02/20 13:34	06-02-2020 17:30
S-24b	0F04011-10	Soil	06/02/20 13:42	06-02-2020 17:30
S-26b	0F04011-11	Soil	06/02/20 13:59	06-02-2020 17:30
S-29b	0F04011-12	Soil	06/02/20 14:00	06-02-2020 17:30

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-1b 0F04011-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmen	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Toluene	ND	0.00556	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Xylene (p/m)	ND	0.00556	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Xylene (o)	ND	0.00556	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-1.	25	P0F0509	06/05/20	06/05/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.0 %	75-1.	25	P0F0509	06/05/20	06/05/20	EPA 8021B	
General Chemistry Parameters by EPA/	Standard Method	ls							
% Moisture	10.0	0.1	%	1	P0F0504	06/05/20	06/05/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 h	oy EPA Method 80	15M							
C6-C12	ND	27.8	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.2 %	70-1.	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-1.	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	06/05/20	06/07/20	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-4b 0F04011-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Toluene	ND	0.00532	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Xylene (p/m)	ND	0.00532	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Xylene (o)	ND	0.00532	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-1	25	P0F0509	06/05/20	06/05/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-1	25	P0F0509	06/05/20	06/05/20	EPA 8021B	
General Chemistry Parameters by EPA	\(\rangle\) / Standard Method	ls							
% Moisture	6.0	0.1	%	1	P0F0504	06/05/20	06/05/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	5 by EPA Method 80	15M							
C6-C12	ND	26.6	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C12-C28	73.6	26.6	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: 1-Chlorooctane		87.3 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: o-Terphenyl		99.2 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	73.6	26.6	mg/kg dry	1	[CALC]	06/05/20	06/07/20	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-8b 0F04011-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin I	Environmer	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Toluene	ND	0.00549	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Xylene (p/m)	ND	0.00549	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Xylene (o)	ND	0.00549	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-1	25	P0F0509	06/05/20	06/05/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.8 %	75-1	25	P0F0509	06/05/20	06/05/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
% Moisture	9.0	0.1	%	1	P0F0504	06/05/20	06/05/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 b	oy EPA Method 80)15M							
C6-C12	ND	27.5	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.2 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	06/05/20	06/07/20	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-10b 0F04011-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	tal Lab, I	J.P.				
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Toluene	ND	0.00515	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Ethylbenzene	ND	0.00515	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Xylene (p/m)	ND	0.00515	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Xylene (o)	ND	0.00515	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-1.	25	P0F0509	06/05/20	06/05/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-1.	25	P0F0509	06/05/20	06/05/20	EPA 8021B	
General Chemistry Parameters by EP.	A / Standard Method	s							
% Moisture	3.0	0.1	%	1	P0F0504	06/05/20	06/05/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	ND	25.8	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
-C12-C28	147	25.8	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
-C28-C35	77.3	25.8	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.9 %	70-1.	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: o-Terphenyl		95.8 %	70-1.	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	224	25.8	mg/kg dry	1	[CALC]	06/05/20	06/07/20	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-14b 0F04011-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
						2 repured	2 mary 200	Memod	110103
	Pern	iian Basin E	invironmer	ıtal Lab, I	∠.P.				
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Toluene	ND	0.00526	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Ethylbenzene	ND	0.00526	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Xylene (p/m)	ND	0.00526	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Xylene (o)	ND	0.00526	mg/kg dry	1	P0F0509	06/05/20	06/05/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-1	25	P0F0509	06/05/20	06/05/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-1	25	P0F0509	06/05/20	06/05/20	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	S							
% Moisture	5.0	0.1	%	1	P0F0504	06/05/20	06/05/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M							
C6-C12	ND	26.3	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C12-C28	79.8	26.3	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.3 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	79.8	26.3	mg/kg dry	1	[CALC]	06/05/20	06/07/20	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-15b 0F04011-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	ıtal Lab, I	□.P.				
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P0F0509	06/05/20	06/06/20	EPA 8021B	
Toluene	ND	0.00515	mg/kg dry	1	P0F0509	06/05/20	06/06/20	EPA 8021B	
Ethylbenzene	ND	0.00515	mg/kg dry	1	P0F0509	06/05/20	06/06/20	EPA 8021B	
Xylene (p/m)	ND	0.00515	mg/kg dry	1	P0F0509	06/05/20	06/06/20	EPA 8021B	
Xylene (o)	ND	0.00515	mg/kg dry	1	P0F0509	06/05/20	06/06/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-1.	25	P0F0509	06/05/20	06/06/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-1.	25	P0F0509	06/05/20	06/06/20	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Method	s						-	
% Moisture	3.0	0.1	%	1	P0F0504	06/05/20	06/05/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	ND	25.8	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C12-C28	85.0	25.8	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.0 %	70-1.	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-1.	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	85.0	25.8	mg/kg dry	1	[CALC]	06/05/20	06/07/20	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-16b 0F04011-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmer	ıtal Lab, I	P.				
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.0 %	75-1	25	P0F1002	06/10/20	06/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.8 %	75-1	25	P0F1002	06/10/20	06/10/20	EPA 8021B	
General Chemistry Parameters by EPA / S	tandard Method	ls							
% Moisture	8.0	0.1	%	1	P0F0504	06/05/20	06/05/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M							
C6-C12	ND	27.2	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.4 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	06/05/20	06/07/20	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-18b 0F04011-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin F	Environmer	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.9 %	75-1	25	P0F1002	06/10/20	06/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.1 %	75-1	25	P0F1002	06/10/20	06/10/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
% Moisture	8.0	0.1	%	1	P0F0504	06/05/20	06/05/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 h	oy EPA Method 80	15M							
C6-C12	ND	27.2	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.9 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	06/05/20	06/07/20	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-21b 0F04011-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin F	Environmer	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.4 %	75-1	25	P0F1002	06/10/20	06/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.2 %	75-1	25	P0F1002	06/10/20	06/10/20	EPA 8021B	
General Chemistry Parameters by EPA / Sta	ndard Metho	ds							
% Moisture	9.0	0.1	%	1	P0F0504	06/05/20	06/05/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by E	PA Method 8	015M							
C6-C12	ND	27.5	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.0 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: o-Terphenyl		99.3 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	06/05/20	06/07/20	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-24b 0F04011-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
y		nian Basin E				- Toparod	111111,204	111011011	1.000
	ren	nan Dasili E	an v ii oniiilei	เเลเ ผสม, 1	⊔.1.				
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.8 %	75-1	25	P0F1002	06/10/20	06/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.4 %	75-1	25	P0F1002	06/10/20	06/10/20	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	s							
% Moisture	ND	0.1	%	1	P0F0504	06/05/20	06/05/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M							
C6-C12	ND	25.0	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C12-C28	289	25.0	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C28-C35	110	25.0	mg/kg dry	1	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	399	25.0	mg/kg dry	1	[CALC]	06/05/20	06/07/20	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-26b 0F04011-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
·	Pern	nian Basin E	nvironmer	ıtal Lah İ	. P	1			
DTDV L 0041D	1011	nan Dasin E	an vii oniniei	itai Lab, i	L.1.				
BTEX by 8021B	ND	0.00101	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Benzene		0.00101			P0F1002			EPA 8021B	
Γoluene	0.00101	0.00101	mg/kg dry	1		06/10/20	06/10/20		
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		73.7 %	75-1	25	P0F1002	06/10/20	06/10/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		108 %	75-1	25	P0F1002	06/10/20	06/10/20	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	s							
% Moisture	1.0	0.1	%	1	P0F0504	06/05/20	06/05/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	ND	25.0	mg/kg dry	10	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C12-C28	294	25.0	mg/kg dry	10	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C28-C35	130	25.0	mg/kg dry	10	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: 1-Chlorooctane		83.2 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: o-Terphenyl		134 %	70-1	30	P0F0502	06/05/20	06/07/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	424	25.0	mg/kg dry	10	[CALC]	06/05/20	06/07/20	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

S-29b 0F04011-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Timilyte						Trepared	7 mary zea	Wellou	110103
	Pern	nian Basin E	Invironmen	ital Lab, l	L.P.				
BTEX by 8021B									
Benzene	ND	0.00116	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Toluene	0.00203	0.00116	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P0F1002	06/10/20	06/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		72.2 %	75-1.	25	P0F1002	06/10/20	06/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		114 %	75-1.	25	P0F1002	06/10/20	06/10/20	EPA 8021B	
General Chemistry Parameters by EP.	A / Standard Method	ls							
% Moisture	14.0	0.1	%	1	P0F0504	06/05/20	06/05/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	ND	27.3	mg/kg dry	10	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C12-C28	364	27.3	mg/kg dry	10	P0F0502	06/05/20	06/07/20	TPH 8015M	
>C28-C35	87	27.3	mg/kg dry	10	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: 1-Chlorooctane		77.8 %	70-1.	30	P0F0502	06/05/20	06/07/20	TPH 8015M	
Surrogate: o-Terphenyl		132 %	70-1.	30	P0F0502	06/05/20	06/07/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	451	27.3	mg/kg dry	10	[CALC]	06/05/20	06/07/20	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

Blank (P0F0509-BLK1)				Prepared & Anal	yzed: 06/05/20			
Benzene	ND	0.00100	mg/kg wet					
Toluene	ND	0.00500	"					
Ethylbenzene	ND	0.00500	"					
Xylene (p/m)	ND	0.00500	"					
Xylene (o)	ND	0.00500	"					
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120	97.7	75-125		
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120	96.8	75-125		
LCS (P0F0509-BS1)				Prepared & Anal	yzed: 06/05/20			
Benzene	0.0991	0.00100	mg/kg wet	0.100	99.1	70-130		
Toluene	0.0960	0.00500	"	0.100	96.0	70-130		
Ethylbenzene	0.102	0.00500	"	0.100	102	70-130		
Xylene (p/m)	0.208	0.00500	"	0.200	104	70-130		
Xylene (o)	0.103	0.00500	"	0.100	103	70-130		
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120	102	75-125		
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120	95.1	75-125		
LCS Dup (P0F0509-BSD1)				Prepared & Anal	yzed: 06/05/20			
Benzene	0.105	0.00100	mg/kg wet	0.100	105	70-130	5.38	20
Toluene	0.103	0.00500	"	0.100	103	70-130	7.40	20
Ethylbenzene	0.108	0.00500	"	0.100	108	70-130	5.02	20
Xylene (p/m)	0.222	0.00500	"	0.200	111	70-130	6.37	20
Xylene (o)	0.111	0.00500	"	0.100	111	70-130	7.16	20
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120	96.0	75-125		
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120	102	75-125		
Calibration Blank (P0F0509-CCB1)				Prepared & Anal	yzed: 06/05/20			
Benzene	0.00		mg/kg wet					
Toluene	0.00		"					
Ethylbenzene	0.00		"					
Xylene (p/m)	0.440		"					
Xylene (o)	0.330		"					
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120	98.2	75-125		
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120	95.5	75-125		

Permian Basin Environmental Lab, L.P.

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

Fasken Oil & Ranch, Ltd.

Project: Denton NO.5 SWD

Fax: 43-687-1570

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

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

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

Analyte	Result	Limit	Units	Levei	Result	%REC	Limits	KPD	Limit	Notes
Batch P0F0509 - General Preparation (GC)									
Calibration Blank (P0F0509-CCB2)	,			Prepared &	ն Analyzed:	06/05/20				
Benzene	0.00		mg/kg wet							
Toluene	0.720		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.300		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.7	75-125			
Calibration Check (P0F0509-CCV1)				Prepared &	k Analyzed:	06/05/20				
Benzene	0.0998	0.00100	mg/kg wet	0.100		99.8	80-120			
Toluene	0.0971	0.00500	"	0.100		97.1	80-120			
Ethylbenzene	0.0997	0.00500	"	0.100		99.7	80-120			
Xylene (p/m)	0.207	0.00500	"	0.200		103	80-120			
Xylene (o)	0.105	0.00500	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	75-125			
Calibration Check (P0F0509-CCV2)				Prepared &	ն Analyzed:	06/05/20				
Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.0976	0.00500	"	0.100		97.6	80-120			
Ethylbenzene	0.100	0.00500	"	0.100		100	80-120			
Xylene (p/m)	0.206	0.00500	"	0.200		103	80-120			
Xylene (o)	0.111	0.00500	"	0.100		111	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			
Calibration Check (P0F0509-CCV3)				Prepared: (06/05/20 Aı	nalyzed: 06	5/06/20			
Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.0989	0.00500	"	0.100		98.9	80-120			
Ethylbenzene	0.0992	0.00500	"	0.100		99.2	80-120			
Xylene (p/m)	0.205	0.00500	"	0.200		102	80-120			
Xylene (o)	0.112	0.00500	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.4	75-125			

Surrogate: 1,4-Difluorobenzene

101

75-125

0.120

0.122

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

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

Batch P0F0509 - General Preparation (GC)

Matrix Spike (P0F0509-MS1)	Sour	ce: 0F05006	-01	Prepared: 0	6/05/20 A	nalyzed: 06	5/06/20	
Benzene	0.0702	0.00100	mg/kg dry	0.100	ND	70.2	80-120	QM-07
Toluene	0.0428	0.00500	"	0.100	ND	42.8	80-120	QM-07
Ethylbenzene	0.0633	0.00500	"	0.100	ND	63.3	80-120	QM-07
Xylene (p/m)	0.104	0.00500	"	0.200	ND	52.1	80-120	QM-07
Xylene (o)	0.0727	0.00500	"	0.100	ND	72.7	80-120	QM-07
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.7	75-125	
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	75-125	

Matrix Spike Dup (P0F0509-MSD1)	Sour	ce: 0F05006	-01	Prepared: 0	6/05/20 A	nalyzed: 00				
Benzene	0.0662	0.00100	mg/kg dry	0.100	ND	66.2	80-120	5.90	20	QM-07
Toluene	0.0345	0.00500	"	0.100	ND	34.5	80-120	21.4	20	QM-07
Ethylbenzene	0.0575	0.00500	"	0.100	ND	57.5	80-120	9.57	20	QM-07
Xylene (p/m)	0.0907	0.00500	"	0.200	ND	45.4	80-120	13.8	20	QM-07
Xylene (o)	0.0677	0.00500	"	0.100	ND	67.7	80-120	7.21	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

Batch P0F1002 - General Preparation (GC)

Blank (P0F1002-BLK1)		Prepared & Analyzed: 06/10/20							
Benzene	ND	0.00100	mg/kg wet						
Toluene	ND	0.00100	"						
Ethylbenzene	ND	0.00100	"						
Xylene (p/m)	ND	0.00200	"						
Xylene (o)	ND	0.00100	"						
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120	88.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120	93.9	75-125			

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

	.	Reporting		Spike	Source	0.48	%REC	p	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F1002 - General Preparation (GC)										
LCS (P0F1002-BS1)				Prepared &	: Analyzed:	06/10/20				
Benzene	0.0866	0.00100	mg/kg wet	0.100		86.6	70-130			
Toluene	0.0913	0.00100	"	0.100		91.3	70-130			
Ethylbenzene	0.0957	0.00100	"	0.100		95.7	70-130			
Xylene (p/m)	0.184	0.00200	"	0.200		92.0	70-130			
Xylene (o)	0.0995	0.00100	"	0.100		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.5	75-125			
LCS Dup (P0F1002-BSD1)				Prepared &	Analyzed:	06/10/20				
Benzene	0.0959	0.00100	mg/kg wet	0.100	-	95.9	70-130	10.2	20	
Toluene	0.0997	0.00100	"	0.100		99.7	70-130	8.79	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	70-130	11.2	20	
Xylene (p/m)	0.202	0.00200	"	0.200		101	70-130	9.49	20	
Xylene (o)	0.111	0.00100	"	0.100		111	70-130	11.3	20	
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.2	75-125			
Calibration Blank (P0F1002-CCB1)				Prepared &	Analyzed:	06/10/20				
Benzene	0.800		mg/kg wet							
Toluene	0.970		"							
Ethylbenzene	0.670		"							
Xylene (p/m)	1.47		"							
Xylene (o)	0.400		"							
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.0	75-125			
Calibration Blank (P0F1002-CCB2)				Prepared &	Analyzed:	06/10/20				
Benzene	0.00		mg/kg wet							
Toluene	0.710		"							
Ethylbenzene	0.570		"							
Xylene (p/m)	0.960		"							
Xylene (o)	0.410		"							
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	75-125			

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F1002 - General Preparation (GC)										
Calibration Check (P0F1002-CCV1)				Prepared &	k Analyzed:	06/10/20				
Benzene	0.0950	0.00100	mg/kg wet	0.100		95.0	80-120			
Toluene	0.0985	0.00100	"	0.100		98.5	80-120			
Ethylbenzene	0.0989	0.00100	"	0.100		98.9	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		97.8	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			
Calibration Check (P0F1002-CCV2)				Prepared &	ն Analyzed:	06/10/20				
Benzene	0.0934	0.00100	mg/kg wet	0.100		93.4	80-120			
Toluene	0.0959	0.00100	"	0.100		95.9	80-120			
Ethylbenzene	0.0969	0.00100	"	0.100		96.9	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.5	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.6	75-125			
Calibration Check (P0F1002-CCV3)				Prepared &	ն Analyzed:	06/10/20				
Benzene	0.0887	0.00100	mg/kg wet	0.100		88.7	80-120			
Toluene	0.0885	0.00100	"	0.100		88.5	80-120			
Ethylbenzene	0.0896	0.00100	"	0.100		89.6	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		86.1	80-120			
Xylene (o)	0.0988	0.00100	"	0.100		98.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.1	75-125			
Matrix Spike (P0F1002-MS1)	Sou	rce: 0F04011	-07	Prepared &	k Analyzed:	06/10/20				
Benzene	0.0770	0.00109	mg/kg dry	0.109	ND	70.8	80-120			QM-0
Toluene	0.0786	0.00109	"	0.109	0.000707	71.6	80-120			QM-0
Ethylbenzene	0.0879	0.00109	"	0.109	ND	80.9	80-120			
Xylene (p/m)	0.151	0.00217	"	0.217	ND	69.5	80-120			QM-0
Xylene (o)	0.0779	0.00109	"	0.109	ND	71.7	80-120			QM-0
Surrogate: 4-Bromofluorobenzene	0.119		"	0.130		91.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.130		96.6	75-125			

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

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

Matrix Spike Dup (P0F1002-MSD1)	Sour	Source: 0F04011-07			Prepared & Analyzed: 06/10/20					
Benzene	0.0812	0.00109	mg/kg dry	0.109	ND	74.7	80-120)-120 5.36	20	QM-05
Toluene	0.0830	0.00109	"	0.109	0.000707	75.7	80-120	5.56	20	QM-05
Ethylbenzene	0.0953	0.00109	"	0.109	ND	87.7	80-120	8.05	20	
Xylene (p/m)	0.162	0.00217	"	0.217	ND	74.4	80-120	6.74	20	QM-05
Xylene (o)	0.0865	0.00109	"	0.109	ND	79.6	80-120	10.5	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.123		"	0.130		94.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.130		95.8	75-125			

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0504 - *** DEFAULT PREP ***										
Blank (P0F0504-BLK1)			Prepared &	: Analyzed:	06/05/20					
% Moisture	ND	0.1	%							
Duplicate (P0F0504-DUP1)	Sour	ce: 0F04005-	Prepared &							
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P0F0504-DUP2)	Source: 0F04005-32			Prepared & Analyzed: 06/05/20						
% Moisture	14.0	0.1	%		13.0			7.41	20	
Duplicate (P0F0504-DUP3)	Source: 0F04009-02			Prepared & Analyzed: 06/05/20						
% Moisture	10.0	0.1	%		9.0			10.5	20	
Duplicate (P0F0504-DUP4)	Source: 0F04010-23			Prepared & Analyzed: 06/05/20						
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0F0504-DUP5)	Source: 0F04011-04			Prepared & Analyzed: 06/05/20						
% Moisture	3.0	0.1	%	3.0				0.00	20	
Duplicate (P0F0504-DUP6)	Source: 0F04011-12			Prepared & Analyzed: 06/05/20						
% Moisture	11.0	0.1	%	-	14.0			24.0	20	R

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F0502 - TX 1005										
Blank (P0F0502-BLK1)				Prenared: (06/05/20 At	nalyzed: 06	5/07/20			
C6-C12	ND	25.0	mg/kg wet	Trepureu.	30/03/20 11	iaryzea. 00	, 0 11 20			
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	91.5		"	100		91.5	70-130			
Surrogate: o-Terphenyl	47.8		"	50.0		95.5	70-130			
LCS (P0F0502-BS1)				Prepared: (06/05/20 Aı	nalyzed: 06	5/07/20			
C6-C12	1020	25.0	mg/kg wet	1000		102	75-125			
>C12-C28	1130	25.0	"	1000		113	75-125			
Surrogate: 1-Chlorooctane	84.0		"	100		84.0	70-130			
Surrogate: o-Terphenyl	44.1		"	50.0		88.2	70-130			
LCS Dup (P0F0502-BSD1)				Prepared: (06/05/20 Aı	nalyzed: 06	5/07/20			
C6-C12	1040	25.0	mg/kg wet	1000		104	75-125	2.40	20	
>C12-C28	1150	25.0	"	1000		115	75-125	2.33	20	
Surrogate: 1-Chlorooctane	86.1		"	100		86.1	70-130			
Surrogate: o-Terphenyl	49.0		"	50.0		97.9	70-130			
Calibration Blank (P0F0502-CCB1)				Prepared: (06/05/20 Aı	nalyzed: 06	5/07/20			
C6-C12	7.39		mg/kg wet							
>C12-C28	6.99		"							
Surrogate: 1-Chlorooctane	89.5		"	100		89.5	70-130			
Surrogate: o-Terphenyl	47.5		"	50.0		94.9	70-130			
Calibration Blank (P0F0502-CCB2)				Prepared: (06/05/20 Ai	nalyzed: 06	5/07/20			
C6-C12	7.79		mg/kg wet							
>C12-C28	5.80		"							
Surrogate: 1-Chlorooctane	84.1		"	100		84.1	70-130			
Surrogate: o-Terphenyl	44.0		"	50.0		88.0	70-130			

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F0502 - TX 1005	Tresart	Ziiiii		20.01	resurt	,,,,,,,,	Ziiiii		Ziiiiv	1.0000
Batch P0F0502 - 1 X 1005										
Calibration Check (P0F0502-CCV1)				Prepared: (06/05/20 A	nalyzed: 06	5/07/20			
C6-C12	552	25.0	mg/kg wet	500		110	85-115			
>C12-C28	572	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	89.8		"	100		89.8	70-130			
Surrogate: o-Terphenyl	45.6		"	50.0		91.3	70-130			
Calibration Check (P0F0502-CCV2)				Prepared: (06/05/20 A	nalyzed: 06	5/07/20			
C6-C12	476	25.0	mg/kg wet	500		95.1	85-115			
>C12-C28	547	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	81.7		"	100		81.7	70-130			
Surrogate: o-Terphenyl	42.1		"	50.0		84.3	70-130			
Calibration Check (P0F0502-CCV3)				Prepared: (06/05/20 A	nalyzed: 06	5/07/20			
C6-C12	497	25.0	mg/kg wet	500		99.5	85-115			
>C12-C28	561	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	85.0		"	100		85.0	70-130			
Surrogate: o-Terphenyl	44.2		"	50.0		88.4	70-130			
Duplicate (P0F0502-DUP1)	Sou	rce: 0F04012	-08	Prepared: (06/05/20 A	nalyzed: 06	6/07/20			
C6-C12	50.8	27.2	mg/kg dry		54.7			7.52	20	
>C12-C28	ND	27.2	"		ND				20	
Surrogate: 1-Chlorooctane	99.7		"	109		91.7	70-130			
Surrogate: o-Terphenyl	56.1		"	54.3		103	70-130			

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD Fax: 43-687-1570

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

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.

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: 6/11/2020

Brent Barron, Laboratory Director/Technical Director

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD Fax: 43-687-1570

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

Permian Basin Environmental Lab, L.P.

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

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S=Soil/Solid</td><td>Matrix</td><td></td><td></td><td></td><td>Reg</td><td></td><td></td><td></td><td></td><td></td><td>r</td></tr><tr><td>.</td><td></td><td>1</td><td></td><td></td><td>Ļ</td><td>$oldsymbol{\perp}$</td><td>╀</td><td>$oldsymbol{ol}}}}}}}}}}}}}}}}}$</td><td></td><td></td><td></td><td></td><td></td><td>Ļ</td><td>ļ</td><td>NP=Non-Potable Specify Other</td><td>×</td><td>_</td><td>_</td><td>1</td><td>Report Format:</td><td></td><td>P</td><td></td><td>Proje</td><td></td><td></td></tr><tr><td></td><td></td><td>Time</td><td>i me</td><td></td><td></td><td>ŭ .</td><td>F</td><td>十</td><td>i -</td><td>-</td><td>-</td><td>+-</td><td></td><td>+</td><td></td><td>TPH: TX 1005 TX 1006 Anions (Cl, SO4, Alkalinity)</td><td>\dashv</td><td></td><td></td><td></td><td>orma</td><td>70</td><td>Project Loc:</td><td>Project #:</td><td>Project Name:</td><td></td><td>V</td></tr><tr><td>AD</td><td></td><td>Say</td><td>00</td><td>58</td><td>K</td><td></td><td></td><td></td><td>-</td><td></td><td>E</td><td></td><td></td><td>区</td><td></td><td>BTEX 80218/5030 or BTEX 8260</td><td></td><td></td><td></td><td></td><td></td><td>PO #</td><td><u>.</u>E</td><td>.# .#</td><td>me:</td><td>:</td><td></td></tr><tr><td>es de s</td><td>by Co</td><td>Sample Hand Delivere</td><td>coo uno siese Apolimo uno uno siese Apolimo e valuellinos no siesoral</td><td>35 75</td><td></td><td>-</td><td>igspace</td><td></td><td></td><td>\vdash</td><td>_</td><td>-</td><td>-</td><td>_</td><td>4</td><td></td><td></td><td>TOTAL:</td><td></td><td></td><td>Standard</td><td></td><td>1</td><td></td><td>00</td><td></td><td></td></tr><tr><td></td><td>θ</td><td></td><td>90015</td><td>6 6 3 9 8 9</td><td></td><td>+</td><td>╫</td><td>╫</td><td>╟</td><td>╁</td><td>╁</td><td>\vdash</td><td>╁╌</td><td>╫</td><td>+</td><td></td><td>1</td><td>F. 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PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

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

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

Lab Order Number: 0F02001



Current Certification

Report Date: 06/10/20

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Project: Denton NO.5 SWD

Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Del - 1	0F02001-01	Soil	05/28/20 09:00	06-01-2020 16:50
Del - 2	0F02001-02	Soil	05/28/20 09:05	06-01-2020 16:50
Del - 3	0F02001-03	Soil	05/28/20 09:13	06-01-2020 16:50
Del - 4	0F02001-04	Soil	05/28/20 09:18	06-01-2020 16:50
Del - 5	0F02001-05	Soil	05/28/20 09:25	06-01-2020 16:50
Del - 6	0F02001-06	Soil	05/28/20 09:31	06-01-2020 16:50
Del - 7	0F02001-07	Soil	05/28/20 09:38	06-01-2020 16:50
Del - 8	0F02001-08	Soil	05/28/20 09:41	06-01-2020 16:50

Fasken Oil & Ranch, Ltd.

Project: Denton NO.5 SWD

6101 Holiday Hill Road

Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Del - 1 0F02001-01 (Soil)

	ъ.	Reporting			D . 1	D 1		26.1.1	37
Analyte	Result	Limit U	nits D	ilution	Batch	Prepared	Analyzed	Method	Notes
			Permia	n Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	0.00289	0.00101 m	g/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:12	EPA 8021B	
Toluene	0.0102	0.00505 m	g/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:12	EPA 8021B	
Ethylbenzene	ND	0.00505 m	g/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:12	EPA 8021B	
Xylene (p/m)	ND	0.00505 m	g/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:12	EPA 8021B	
Xylene (o)	ND	0.00101 m	g/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.2 %	75-125		P0F0308	06/03/20 15:19	06/04/20 13:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.2 %	75-125		P0F0308	06/03/20 15:19	06/04/20 13:12	EPA 8021B	
General Chemistry Paramete	rs by EPA/	Standard N	Methods						
Chloride	261	1.01 m	g/kg dry	1	P0F0601	06/06/20 16:42	06/09/20 09:08	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F0301	06/03/20 09:17	06/03/20 09:19	ASTM D2216	
Total Petroleum Hydrocarboi	ıs C6-C35 b	y EPA Met	hod 8015	М					
C6-C12	ND	25.3 m	g/kg dry	1	P0F0208	06/02/20 13:24	06/05/20 09:12	TPH 8015M	
>C12-C28	82.6	25.3 m	g/kg dry	1	P0F0208	06/02/20 13:24	06/05/20 09:12	TPH 8015M	
>C28-C35	35.2	25.3 m	g/kg dry	1	P0F0208	06/02/20 13:24	06/05/20 09:12	TPH 8015M	
Surrogate: 1-Chlorooctane		88.6 %	70-130		P0F0208	06/02/20 13:24	06/05/20 09:12	TPH 8015M	
Surrogate: o-Terphenyl		94.9 %	70-130		P0F0208	06/02/20 13:24	06/05/20 09:12	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	118	25.3 m	g/kg dry	1	[CALC]	06/02/20 13:24	06/05/20 09:12	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Del - 2 0F02001-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tildiye	Result	Limit	Cints	Dilution	Batch	Trepared	Maryzed	Wichiod	TVOICE
			Permi	an Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	0.00146	0.00101 m	ng/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:33	EPA 8021B	
Toluene	0.00636	0.00505 n	ng/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:33	EPA 8021B	
Ethylbenzene	ND	0.00505 n	ng/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:33	EPA 8021B	
Xylene (p/m)	ND	0.00505 n	ng/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:33	EPA 8021B	
Xylene (o)	ND	0.00101 n	ng/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:33	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.0 %	75-12	25	P0F0308	06/03/20 15:19	06/04/20 13:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.2 %	75-12	25	P0F0308	06/03/20 15:19	06/04/20 13:33	EPA 8021B	
General Chemistry Paramete	ers by EPA /	Standard	Methods						
Chloride	182	1.01 m	ng/kg dry	1	P0F0602	06/06/20 17:32	06/09/20 10:43	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F0301	06/03/20 09:17	06/03/20 09:19	ASTM D2216	
Total Petroleum Hydrocarbo	ns C6-C35 b	y EPA Me	thod 801	5M					
C6-C12	ND	25.3 n	ng/kg dry	1	P0F0208	06/02/20 13:24	06/05/20 09:35	TPH 8015M	
>C12-C28	30.8	25.3 m	ng/kg dry	1	P0F0208	06/02/20 13:24	06/05/20 09:35	TPH 8015M	
>C28-C35	ND	25.3 n	ng/kg dry	1	P0F0208	06/02/20 13:24	06/05/20 09:35	TPH 8015M	
Surrogate: 1-Chlorooctane	<u> </u>	88.7 %	70-13	0	P0F0208	06/02/20 13:24	06/05/20 09:35	TPH 8015M	
Surrogate: o-Terphenyl		95.6 %	70-13	0	P0F0208	06/02/20 13:24	06/05/20 09:35	TPH 8015M	
Total Petroleum	30.8	25.3 n	ng/kg dry	1	[CALC]	06/02/20 13:24	06/05/20 09:35	calc	
Hydrocarbon C6-C35									

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Del - 3 0F02001-03 (Soil)

Analyte	Result	Reporting Limit U	nito D	ilution	Batch	Prepared	Analyzed	Method	Notes
Allaryte	Kesuit	LIIIII U	mis D	nution	Datcii	rrepareu	Anaryzeu	Method	notes
			Permia	n Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	0.00155	0.00101 mg	g/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:54	EPA 8021B	
Toluene	0.00726	0.00505 mg	g/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:54	EPA 8021B	
Ethylbenzene	ND	0.00505 mg	g/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:54	EPA 8021B	
Xylene (p/m)	ND	0.00505 mg	g/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:54	EPA 8021B	
Xylene (o)	ND	0.00101 mg	g/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 13:54	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.7 %	75-125		P0F0308	06/03/20 15:19	06/04/20 13:54	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.1 %	75-125		P0F0308	06/03/20 15:19	06/04/20 13:54	EPA 8021B	
General Chemistry Paramete	ers by EPA/	Standard N	1ethods						
Chloride	115	1.01 mg	g/kg dry	1	P0F0602	06/06/20 17:32	06/09/20 10:58	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F0301	06/03/20 09:17	06/03/20 09:19	ASTM D2216	
Total Petroleum Hydrocarbo	ns C6-C35 b	y EPA Met	hod 8015	M					
C6-C12	ND	25.3 mg	g/kg dry	1	P0F0208	06/02/20 13:24	06/05/20 09:58	TPH 8015M	
>C12-C28	ND	25.3 mg	g/kg dry	1	P0F0208	06/02/20 13:24	06/05/20 09:58	TPH 8015M	
>C28-C35	ND	25.3 mg	g/kg dry	1	P0F0208	06/02/20 13:24	06/05/20 09:58	TPH 8015M	
Surrogate: 1-Chlorooctane		89.0 %	70-130		P0F0208	06/02/20 13:24	06/05/20 09:58	TPH 8015M	
Surrogate: o-Terphenyl		98.0 %	70-130		P0F0208	06/02/20 13:24	06/05/20 09:58	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 mg	g/kg dry	1	[CALC]	06/02/20 13:24	06/05/20 09:58	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Del - 4 0F02001-04 (Soil)

		Reporting							
Analyte	Result	Limit	Units D	ilution	Batch	Prepared	Analyzed	Method	Notes
			Permia	n Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	0.00135	0.00102 n	ng/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 14:15	EPA 8021B	
Toluene	0.00662	0.00510 n	ng/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 14:15	EPA 8021B	
Ethylbenzene	ND	0.00510 n	ng/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 14:15	EPA 8021B	
Xylene (p/m)	ND	0.00510 n	ng/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 14:15	EPA 8021B	
Xylene (o)	ND	0.00102 n	ng/kg dry	1	P0F0308	06/03/20 15:19	06/04/20 14:15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.6 %	75-125		P0F0308	06/03/20 15:19	06/04/20 14:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.2 %	75-125		P0F0308	06/03/20 15:19	06/04/20 14:15	EPA 8021B	
General Chemistry Paramete	ers by EPA /	Standard	Methods						
Chloride	95.1	1.10 n	ng/kg dry	5	P0F0602	06/06/20 17:32	06/09/20 11:14	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0F0301	06/03/20 09:17	06/03/20 09:19	ASTM D2216	
Total Petroleum Hydrocarbo	ns C6-C35 b	y EPA Me	thod 8015	M					
C6-C12	ND	25.5 n	ng/kg dry	1	P0F0208	06/02/20 13:24	06/05/20 10:21	TPH 8015M	
>C12-C28	ND	25.5 n	ng/kg dry	1	P0F0208	06/02/20 13:24	06/05/20 10:21	TPH 8015M	
>C28-C35	ND	25.5 n	ng/kg dry	1	P0F0208	06/02/20 13:24	06/05/20 10:21	TPH 8015M	
Surrogate: 1-Chlorooctane		89.4 %	70-130	1	P0F0208	06/02/20 13:24	06/05/20 10:21	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130	1	P0F0208	06/02/20 13:24	06/05/20 10:21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 n	ng/kg dry	1	[CALC]	06/02/20 13:24	06/05/20 10:21	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Del - 5 0F02001-05 (Soil)

Analyte	Result	Reporting Limit U	Jnits I	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Permi	an Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 m	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 04:20	EPA 8021B	
Toluene	ND	0.00505 m	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 04:20	EPA 8021B	
Ethylbenzene	ND	0.00505 m	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 04:20	EPA 8021B	
Xylene (p/m)	ND	0.00505 m	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 04:20	EPA 8021B	
Xylene (o)	ND	0.00101 m	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 04:20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-12.	5	P0F0309	06/03/20 15:26	06/04/20 04:20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-12.	5	P0F0309	06/03/20 15:26	06/04/20 04:20	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard N	Methods						
Chloride	128	1.01 m	g/kg dry	1	P0F0602	06/06/20 17:32	06/09/20 12:01	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F0301	06/03/20 09:17	06/03/20 09:19	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 8015	SM					
C6-C12	ND	25.3 m	g/kg dry	1	P0F0209	06/02/20 14:38	06/02/20 22:51	TPH 8015M	
>C12-C28	ND	25.3 m	g/kg dry	1	P0F0209	06/02/20 14:38	06/02/20 22:51	TPH 8015M	
>C28-C35	ND	25.3 m	g/kg dry	1	P0F0209	06/02/20 14:38	06/02/20 22:51	TPH 8015M	
Surrogate: 1-Chlorooctane		126 %	70-13)	P0F0209	06/02/20 14:38	06/02/20 22:51	TPH 8015M	
Surrogate: o-Terphenyl		132 %	70-13)	P0F0209	06/02/20 14:38	06/02/20 22:51	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3 m	g/kg dry	1	[CALC]	06/02/20 14:38	06/02/20 22:51	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Del - 6 0F02001-06 (Soil)

Analyte	Result	Reporting Limit U	nits D	ilution	Batch	Prepared	Analyzed	Method	Notes
			Permia	n Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 mg	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 04:41	EPA 8021B	
Toluene	ND	0.00505 mg	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 04:41	EPA 8021B	
Ethylbenzene	ND	0.00505 mg	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 04:41	EPA 8021B	
Xylene (p/m)	ND	0.00505 mg	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 04:41	EPA 8021B	
Xylene (o)	ND	0.00101 mg	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 04:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0F0309	06/03/20 15:26	06/04/20 04:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0F0309	06/03/20 15:26	06/04/20 04:41	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard N	1ethods						
Chloride	210	1.01 mg	g/kg dry	1	P0F0602	06/06/20 17:32	06/09/20 12:17	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F0301	06/03/20 09:17	06/03/20 09:19	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	nod 8015	M					
C6-C12	ND	25.3 mg	g/kg dry	1	P0F0209	06/02/20 14:38	06/02/20 23:13	TPH 8015M	
>C12-C28	ND	25.3 mg	g/kg dry	1	P0F0209	06/02/20 14:38	06/02/20 23:13	TPH 8015M	
>C28-C35	ND	25.3 mg	g/kg dry	1	P0F0209	06/02/20 14:38	06/02/20 23:13	TPH 8015M	
Surrogate: 1-Chlorooctane		125 %	70-130		P0F0209	06/02/20 14:38	06/02/20 23:13	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P0F0209	06/02/20 14:38	06/02/20 23:13	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 mg	g/kg dry	1	[CALC]	06/02/20 14:38	06/02/20 23:13	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Del - 7 0F02001-07 (Soil)

Analyte	Result	Reporting Limit U	nits D	ilution	Batch	Prepared	Analyzed	Method	Notes
			Permia	n Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 mg	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 05:01	EPA 8021B	
Toluene	ND	0.00505 mg	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 05:01	EPA 8021B	
Ethylbenzene	ND	0.00505 mg	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 05:01	EPA 8021B	
Xylene (p/m)	ND	0.00505 mg	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 05:01	EPA 8021B	
Xylene (o)	ND	0.00101 mg	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 05:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0F0309	06/03/20 15:26	06/04/20 05:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.8 %	75-125		P0F0309	06/03/20 15:26	06/04/20 05:01	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard N	1ethods						
Chloride	143	1.01 mg	g/kg dry	1	P0F0602	06/06/20 17:32	06/09/20 12:33	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F0301	06/03/20 09:17	06/03/20 09:19	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	nod 8015	M					
C6-C12	ND	25.3 mg	g/kg dry	1	P0F0209	06/02/20 14:38	06/02/20 23:35	TPH 8015M	
>C12-C28	ND	25.3 mg	g/kg dry	1	P0F0209	06/02/20 14:38	06/02/20 23:35	TPH 8015M	
>C28-C35	ND	25.3 mg	g/kg dry	1	P0F0209	06/02/20 14:38	06/02/20 23:35	TPH 8015M	
Surrogate: 1-Chlorooctane		126 %	70-130		P0F0209	06/02/20 14:38	06/02/20 23:35	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P0F0209	06/02/20 14:38	06/02/20 23:35	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 mg	g/kg dry	1	[CALC]	06/02/20 14:38	06/02/20 23:35	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Del - 8 0F02001-08 (Soil)

Analyte	Result	Reporting Limit U	Jnits I	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Permi	an Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 m	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 05:22	EPA 8021B	
Toluene	ND	0.00505 m	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 05:22	EPA 8021B	
Ethylbenzene	ND	0.00505 m	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 05:22	EPA 8021B	
Xylene (p/m)	ND	0.00505 m	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 05:22	EPA 8021B	
Xylene (o)	ND	0.00101 m	g/kg dry	1	P0F0309	06/03/20 15:26	06/04/20 05:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.6 %	75-12.	5	P0F0309	06/03/20 15:26	06/04/20 05:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-12.	5	P0F0309	06/03/20 15:26	06/04/20 05:22	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard N	Methods						
Chloride	166	1.01 m	g/kg dry	1	P0F0602	06/06/20 17:32	06/09/20 12:49	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F0301	06/03/20 09:17	06/03/20 09:19	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 8015	SM					
C6-C12	ND	25.3 m	g/kg dry	1	P0F0209	06/02/20 14:38	06/02/20 23:58	TPH 8015M	
>C12-C28	ND	25.3 m	g/kg dry	1	P0F0209	06/02/20 14:38	06/02/20 23:58	TPH 8015M	
>C28-C35	ND	25.3 m	g/kg dry	1	P0F0209	06/02/20 14:38	06/02/20 23:58	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-13)	P0F0209	06/02/20 14:38	06/02/20 23:58	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-13	9	P0F0209	06/02/20 14:38	06/02/20 23:58	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 m	g/kg dry	1	[CALC]	06/02/20 14:38	06/02/20 23:58	calc	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

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

Blank (P0F0308-BLK1)				Prepared & Anal	vzed: 06/03/20				
Benzene	ND	0.00100	mg/kg wet	1 repared & Anai	yzcu. 00/03/20				
Toluene	ND	0.00500	mg kg wet						
Ethylbenzene	ND	0.00500	,,						
Xylene (p/m)	ND	0.00500	,,						
Xylene (o)	ND	0.00100	,,						
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120	101	75-125			_
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120	99.5	75-125			
LCS (P0F0308-BS1)				Prepared & Anal	yzed: 06/03/20				
Benzene	0.0934	0.00100	mg/kg wet	0.100	93.4	70-130			
Toluene	0.0920	0.00500	"	0.100	92.0	70-130			
Ethylbenzene	0.104	0.00500	"	0.100	104	70-130			
Xylene (p/m)	0.202	0.00500	"	0.200	101	70-130			
Xylene (o)	0.103	0.00100	"	0.100	103	70-130			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120	97.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120	102	75-125			
LCS Dup (P0F0308-BSD1)				Prepared & Anal	yzed: 06/03/20				
Benzene	0.0972	0.00100	mg/kg wet	0.100	97.2	70-130	3.93	20	
Toluene	0.0971	0.00500	"	0.100	97.1	70-130	5.39	20	
Ethylbenzene	0.104	0.00500	"	0.100	104	70-130	0.355	20	
Xylene (p/m)	0.208	0.00500	"	0.200	104	70-130	3.27	20	
Xylene (o)	0.106	0.00100	"	0.100	106	70-130	3.63	20	
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120	97.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120	102	75-125			
Calibration Blank (P0F0308-CCB1)				Prepared & Anal	yzed: 06/03/20				
Benzene	0.00		mg/kg wet						
Toluene	0.720		"						
Ethylbenzene	0.00		"						
Xylene (p/m)	0.370		"						
Xylene (o)	0.00		"						
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120	98.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120	96.8	75-125			

Permian Basin Environmental Lab, L.P.

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

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

0.115

Fax: 43-687-1570

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

	D. It	Reporting	TT '	Spike	Source	0/DEG	%REC	DDD	RPD	N
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0308 - General Preparation (GC)										
Calibration Blank (P0F0308-CCR2)				Prepared &	Analyzed:	06/03/20				

Batch P0F0308 - General Preparation (GC)					
Calibration Blank (P0F0308-CCB2)			Prepared & Ana	lyzed: 06/03/20		
Benzene	0.00	mg/kg wet		-		
Toluene	0.500	"				
Ethylbenzene	0.00	"				
Xylene (p/m)	0.540	"				
Xylene (o)	0.00	"				
Surrogate: 1,4-Difluorobenzene	0.116	"	0.120	96.9	75-125	
Surrogate: 4-Bromofluorobenzene	0.115	n	0.120	95.7	75-125	
Calibration Blank (P0F0308-CCB3)			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: 1,4-Difluorobenzene	0.118	"	0.120	98.2	75-125	
Surrogate: 4-Bromofluorobenzene	0.119	n .	0.120	99.4	75-125	
Calibration Check (P0F0308-CCV1)			Prepared & Ana	lyzed: 06/03/20		
Benzene	0.0958	0.00100 mg/kg wet	0.100	95.8	80-120	
Toluene	0.0935	0.00500 "	0.100	93.5	80-120	
Ethylbenzene	0.0972	0.00500 "	0.100	97.2	80-120	
Xylene (p/m)	0.199	0.00500 "	0.200	99.6	80-120	
Xylene (o)	0.103	0.00100 "	0.100	103	80-120	
Surrogate: 1,4-Difluorobenzene	0.123	ïi .	0.120	102	75-125	
Surrogate: 4-Bromofluorobenzene	0.119	"	0.120	99.1	75-125	
Calibration Check (P0F0308-CCV2)			Prepared & Ana	lyzed: 06/03/20		
Benzene	0.0994	0.00100 mg/kg wet	0.100	99.4	80-120	
Toluene	0.0918	0.00500 "	0.100	91.8	80-120	
Ethylbenzene	0.0937	0.00500 "	0.100	93.7	80-120	
Xylene (p/m)	0.191	0.00500 "	0.200	95.7	80-120	
Xylene (o)	0.102	0.00100 "	0.100	102	80-120	
Surrogate: 1,4-Difluorobenzene	0.122	"	0.120	101	75-125	

Surrogate: 4-Bromofluorobenzene

95.9

75-125

0.120

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

	_	Reporting		Spike	Source	0:-	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0308 - General Preparation (GC)										
Calibration Check (P0F0308-CCV3)				Prepared:	06/03/20 Ar	nalyzed: 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			
Matrix Spike (P0F0308-MS1)	Sou	rce: 0F01002	-18	Prepared:	06/03/20 Ar	nalyzed: 06	/04/20			
Benzene	0.0736	0.00100	mg/kg dry	0.100	ND	73.6	80-120			QM-0
Toluene	0.0836	0.00500	"	0.100	0.000640	82.9	80-120			
Ethylbenzene	0.0847	0.00500	"	0.100	0.000910	83.8	80-120			
Xylene (p/m)	0.151	0.00500	"	0.200	0.00602	72.4	80-120			QM-0
Xylene (o)	0.0773	0.00100	"	0.100	0.00221	75.1	80-120			QM-0
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.8	75-125			
Matrix Spike Dup (P0F0308-MSD1)	Sou	rce: 0F01002	-18	Prepared:	06/03/20 Ar	nalyzed: 06	/04/20			
Benzene	0.0782	0.00100	mg/kg dry	0.100	ND	78.2	80-120	6.02	20	QM-0
Toluene	0.0867	0.00500	"	0.100	0.000640	86.0	80-120	3.66	20	
Ethylbenzene	0.0918	0.00500	"	0.100	0.000910	90.9	80-120	8.17	20	
Xylene (p/m)	0.166	0.00500	"	0.200	0.00602	79.8	80-120	9.66	20	QM-0
Xylene (o)	0.0849	0.00100	"	0.100	0.00221	82.7	80-120	9.62	20	
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.4	75-125			
Batch P0F0309 - General Preparation (GC)										
Blank (P0F0309-BLK1)				Prepared:	06/03/20 Ar	nalyzed: 06	/04/20			
Benzene	ND	0.00100	mg/kg wet	F		J==== 00				
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
•	ND	0.00500	,,							

Xylene (o)

Surrogate: 1,4-Difluorobenzene

Surrogate: 4-Bromofluorobenzene

96.8

96.8

75-125

75-125

0.120

0.120

0.00100

ND

0.116

0.116

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

Analyta	Dam!+	Reporting Limit	Units	Spike	Source	%REC	%REC	RPD	RPD Limit	Natas
Analyte	Result	Limit	Units	Level	Result	%KEC	Limits	KPD	Limit	Notes
Batch P0F0309 - General Preparation (GC)										
LCS (P0F0309-BS1)				Prepared: 0	6/03/20 Ar	nalyzed: 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: 0	6/03/20 Ar	nalyzed: 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: 0	6/03/20 Ar	nalyzed: 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: 1,4-Difluorobenzene	0.118		"	0.120		98.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.4	75-125			
Calibration Blank (P0F0309-CCB2)				Prepared: 0	6/03/20 Ar	nalyzed: 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			

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

0.124

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
rmary	Result	Lillit	Omo	Level	Kesuit	/OKEC	Lillits	KI D	Liiiit	110103
Batch P0F0309 - General Preparation (GC	C)									
Calibration Check (P0F0309-CCV1)				Prepared:	06/03/20 Ar	alyzed: 06	5/04/20			
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: 1,4-Difluorobenzene	0.118		"	0.120		98.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.2	75-125			
Calibration Check (P0F0309-CCV2)				Prepared:	06/03/20 Ar	nalyzed: 06	5/04/20			
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: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.0	75-125			
Calibration Check (P0F0309-CCV3)				Prepared:	06/03/20 Ar	nalyzed: 06	5/04/20			
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			
Matrix Spike (P0F0309-MS1)	Sou	ırce: 0F02001	-05	Prepared:	06/03/20 Ar	nalyzed: 06	5/04/20			
Benzene	0.0687	0.00101	mg/kg dry	0.101	ND	68.0	80-120			QM-0
Toluene	0.0551	0.00505	"	0.101	0.00277	51.8	80-120			QM-0
Ethylbenzene	0.0662	0.00505	"	0.101	ND	65.6	80-120			QM-
Xylene (p/m)	0.111	0.00505	"	0.202	0.00213	53.7	80-120			QM-
Xylene (o)	0.0575	0.00101	"	0.101	0.000838	56.1	80-120			QM-
Surrogate: 4-Bromofluorobenzene	0.123		"	0.121		101	75-125			
a 1.15.4 1	0.75.									

Surrogate: 1,4-Difluorobenzene

102

75-125

0.121

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

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

Matrix Spike Dup (P0F0309-MSD1)	Sour	rce: 0F02001	-05	Prepared:	06/03/20 An	alyzed: 06	6/04/20			
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			

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Anaryte	Result	Limit	Units	Level	Result	70KEC	Limits	KrD	Limit	Notes
Batch P0F0301 - *** DEFAULT PREP ***										
Blank (P0F0301-BLK1)				Prepared &	& Analyzed:	06/03/20				
% Moisture	ND	0.1	%							
Duplicate (P0F0301-DUP1)	Sou	ce: 0F01006-	14	Prepared &	& Analyzed:	: 06/03/20				
% Moisture	10.0	0.1	%	-	10.0			0.00	20	
Duplicate (P0F0301-DUP2)	Sou	ce: 0F02002-	13	Prepared &	& Analyzed:	06/03/20				
% Moisture	8.0	0.1	%	1	9.0			11.8	20	
Duplicate (P0F0301-DUP3)	Som	ce: 0F02002-	21	Prepared &	& Analyzed:	: 06/03/20				
% Moisture	10.0	0.1	%		10.0			0.00	20	
D-4-L DOEO/O1 *** DEEATH T DDED ***										
Batch P0F0601 - *** DEFAULT PREP ***										
Blank (P0F0601-BLK1)				Prepared:	06/06/20 A	nalyzed: 06	5/09/20			
Chloride	ND	1.00	mg/kg wet							
LCS (P0F0601-BS1)				Prepared:	06/06/20 A	nalyzed: 06	5/09/20			
Chloride	431	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P0F0601-BSD1)				Prepared:	06/06/20 A	nalyzed: 06	5/09/20			
Chloride	432	1.00	mg/kg wet			108	80-120	0.306	20	
Calibration Blank (P0F0601-CCB1)				Prepared:	06/06/20 A	nalvzed: 06	5/09/20			
Chloride	0.00		mg/kg wet	F3 u		-,,				
Calibration Blank (P0F0601-CCB2)				Prepared:	06/06/20 A	nalvzed: 04	5/09/20			
Chloride	0.00		mg/kg wet	r repared:	00/00/20 A	naryzeu. U	0/02/20			
Cinoriac	0.00		mg/kg wet							

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

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

		Reporting	·	Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0601 - *** DEFAULT PREP ***										
Calibration Check (P0F0601-CCV1)				Prepared: (06/06/20 A	nalyzed: 06	/08/20			
Chloride	21.4		mg/kg	20.0		107	0-200			
Calibration Check (P0F0601-CCV2)				Prepared: (06/06/20 A	nalyzed: 06	/09/20			
Chloride	21.6		mg/kg	20.0		108	0-200			
Calibration Check (P0F0601-CCV3)				Prepared: (06/06/20 A	nalyzed: 06	/09/20			
Chloride	22.0		mg/kg	20.0		110	0-200			
Matrix Spike (P0F0601-MS1)	Source: 0F01006-01		-01	Prepared: 06/06/20 Analyzed: 06/09/20						
Chloride	7340	27.2	mg/kg dry	2720	4320	111	80-120			
Matrix Spike (P0F0601-MS2)	Sou	rce: 0F01004	-04	Prepared: 06/06/20 Analyzed: 06/09/20						
Chloride	16900	55.6	mg/kg dry	5560	13.8	303	80-120			
Matrix Spike Dup (P0F0601-MSD1)	Sou	rce: 0F01006	-01	Prepared: 06/06/20 Analyzed: 06/09/20			/09/20			
Chloride	7360	27.2	mg/kg dry	2720	4320	112	80-120	0.303	20	
	Source: 0F01004-04									
Matrix Spike Dup (P0F0601-MSD2)	Sou	rce: 0F01004	-04	Prepared: (06/06/20 A	nalyzed: 06	/09/20			
Matrix Spike Dup (P0F0601-MSD2) Chloride	Sou 16900		mg/kg dry	Prepared: 0 5560	06/06/20 At	nalyzed: 06 304	/09/20 80-120	0.414	20	
								0.414	20	
Chloride				5560		304	80-120	0.414	20	
Chloride Batch P0F0602 - *** DEFAULT PREP ***		55.6		5560	13.8	304	80-120	0.414	20	
Chloride Batch P0F0602 - *** DEFAULT PREP *** Blank (P0F0602-BLK1)	16900	55.6	mg/kg dry	5560 Prepared: (13.8	304 nalyzed: 06	80-120	0.414	20	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F0602 - *** DEFAULT PREP ***										
LCS Dup (P0F0602-BSD1)				Prepared: (06/06/20 A	nalyzed: 06	/09/20			
Chloride	428	1.00	mg/kg wet	400		107	80-120	1.10	20	
Calibration Blank (P0F0602-CCB1)				Prepared: (06/06/20 At	nalyzed: 06	/09/20			
Chloride	0.00		mg/kg wet							
Calibration Blank (P0F0602-CCB2)				Prepared: (06/06/20 At	nalyzed: 06	/09/20			
Chloride	0.00		mg/kg wet							
Calibration Check (P0F0602-CCV1)				Prepared: (06/06/20 At	nalyzed: 06	/09/20			
Chloride	22.0		mg/kg	20.0		110	0-200			
Calibration Check (P0F0602-CCV2)				Prepared: (06/06/20 A	nalyzed: 06	/09/20			
Chloride	21.7		mg/kg	20.0		109	0-200			
Calibration Check (P0F0602-CCV3)				Prepared: (06/06/20 A	nalyzed: 06	/09/20			
Chloride	21.9		mg/kg	20.0		110	0-200			
Matrix Spike (P0F0602-MS1)	Sour	ce: 0F02001	-04	Prepared: (06/06/20 A	nalyzed: 06	/09/20			
Chloride	1500	5.10	mg/kg dry	510	943	108	80-120			
Matrix Spike (P0F0602-MS2)	Sour	ce: 0F02002	-05	Prepared: 06/06/20 Analyzed: 06/09/20			/09/20			
Chloride	8570	26.6	mg/kg dry	2660	5980	97.5	80-120			
Matrix Spike Dup (P0F0602-MSD1)	Sour	ce: 0F02001	-04	Prepared: 06/06/20 Analyzed: 06/09/20			/09/20			
Chloride	1500	5.10	mg/kg dry	510	943	110	80-120	0.466	20	
Matrix Spike Dup (P0F0602-MSD2)	Sour	ce: 0F02002	-05	Prepared: (06/06/20 Aı	nalyzed: 06	/09/20			
Chloride	8640	26.6	mg/kg dry	2660	5980	100	80-120	0.856	20	

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0208 - TX 1005										
Blank (P0F0208-BLK1)				Prepared: (06/02/20 At	nalyzed: 06	/05/20			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	157		"	160		98.1	70-130			
Surrogate: o-Terphenyl	86.2		"	80.0		108	70-130			
LCS (P0F0208-BS1)				Prepared: (06/02/20 At	nalyzed: 06	/05/20			
C6-C12	1830	25.0	mg/kg wet	1800		102	75-125			
>C12-C28	2140	25.0	"	1800		119	75-125			
Surrogate: 1-Chlorooctane	202		"	160		126	70-130			
Surrogate: o-Terphenyl	82.5		"	80.0		103	70-130			
LCS Dup (P0F0208-BSD1)				Prepared: (06/02/20 At	nalyzed: 06	/05/20			
C6-C12	1810	25.0	mg/kg wet	1800		100	75-125	1.07	20	
>C12-C28	2130	25.0	"	1800		119	75-125	0.455	20	
Surrogate: 1-Chlorooctane	195		"	160		122	70-130			
Surrogate: o-Terphenyl	79.9		"	80.0		99.9	70-130			
Calibration Blank (P0F0208-CCB1)				Prepared: (06/02/20 At	nalyzed: 06	/05/20			
C6-C12	19.1		mg/kg wet							
>C12-C28	10.6		"							
Surrogate: 1-Chlorooctane	153		"	160		95.6	70-130			
Surrogate: o-Terphenyl	84.2		"	80.0		105	70-130			
Calibration Blank (P0F0208-CCB2)				Prepared: (06/02/20 At	nalyzed: 06	/05/20			
C6-C12	20.7		mg/kg wet	-						
>C12-C28	16.8		"							
Surrogate: 1-Chlorooctane	136		"	160		85.3	70-130			
Surrogate: o-Terphenyl	75.3		"	80.0		94.2	70-130			

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0208 - TX 1005										
Calibration Check (P0F0208-CCV1)				Prepared: 0	06/02/20 At	nalyzed: 06	5/05/20			
C6-C12	861	25.0	mg/kg wet	800		108	85-115			
>C12-C28	918	25.0	"	800		115	85-115			
Surrogate: 1-Chlorooctane	165		"	160		103	70-130			
Surrogate: o-Terphenyl	79.0		"	80.0		98.7	70-130			
Calibration Check (P0F0208-CCV2)				Prepared: (06/02/20 A	nalyzed: 06	5/05/20			
C6-C12	823	25.0	mg/kg wet	800		103	85-115			
>C12-C28	871	25.0	"	800		109	85-115			
Surrogate: 1-Chlorooctane	157		"	160		98.4	70-130			
Surrogate: o-Terphenyl	75.0		"	80.0		93.7	70-130			
Calibration Check (P0F0208-CCV3)				Prepared: (06/02/20 A	nalyzed: 06	5/05/20			
C6-C12	541	25.0	mg/kg wet	500		108	85-115			
>C12-C28	561	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	130		"	160		81.5	70-130			
Surrogate: o-Terphenyl	70.8		"	80.0		88.5	70-130			
Duplicate (P0F0208-DUP1)	Sou	rce: 0F02001	-04	Prepared: (06/02/20 At	nalyzed: 06	5/05/20			
C6-C12	14.0	25.5	mg/kg dry		14.2			1.45	20	
>C12-C28	12.5	25.5	"		11.8			5.69	20	
Surrogate: 1-Chlorooctane	148		"	163		90.8	70-130			
Surrogate: o-Terphenyl	84.8		"	81.6		104	70-130			
Batch P0F0209 - TX 1005										
Blank (P0F0209-BLK1)		· · · · · ·		Prepared &	& Analyzed:	06/02/20				
C6-C12	ND	25.0	mg/kg wet	-	-					
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	144		"	140		103	70-130			
Surrogate: o-Terphenyl	74.6		"	70.0		107	70-130			

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

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0209 - TX 1005										
LCS (P0F0209-BS1)				Prepared &	analyzed:	06/02/20				
C6-C12	1190	25.0	mg/kg wet	1100		109	75-125			
>C12-C28	1050	25.0	"	1100		95.8	75-125			
Surrogate: 1-Chlorooctane	127		"	140		90.8	70-130			
Surrogate: o-Terphenyl	64.7		"	70.0		92.4	70-130			
LCS Dup (P0F0209-BSD1)				Prepared &	Analyzed:	06/02/20				
C6-C12	1100	25.0	mg/kg wet	1100		100	75-125	8.18	20	
>C12-C28	1280	25.0	"	1100		116	75-125	19.2	20	
Surrogate: 1-Chlorooctane	140		"	140		99.7	70-130			
Surrogate: o-Terphenyl	70.3		"	70.0		100	70-130			
Calibration Blank (P0F0209-CCB1)				Prepared &	Analyzed:	06/02/20				
C6-C12	16.0		mg/kg wet							
>C12-C28	1.20		"							
Surrogate: 1-Chlorooctane	150		"	140		107	70-130			
Surrogate: o-Terphenyl	77.1		"	70.0		110	70-130			
Calibration Check (P0F0209-CCV1)				Prepared &	Analyzed:	06/02/20				
C6-C12	574	25.0	mg/kg wet	500		115	85-115			
>C12-C28	543	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	129		"	140		92.2	70-130			
Surrogate: o-Terphenyl	64.4		"	70.0		92.0	70-130			
Duplicate (P0F0209-DUP1)	Sou	rce: 0F02001	-08	Prepared: (06/02/20 At	nalyzed: 06	/03/20			
C6-C12	21.3	25.3	mg/kg dry		16.8			23.8	20	
>C12-C28	ND	25.3	"		ND				20	
Surrogate: 1-Chlorooctane	119		"	141		84.4	70-130			
Surrogate: o-Terphenyl	60.9		"	70.7		86.1	70-130			

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD Fax: 43-687-1570

6101 Holiday Hill Road Project Number: [none]

Midland TX, 79707 Project Manager: Aaron Pachlhofer

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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

	Drew	Darron			
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.

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

Fasken Oil & Ranch, Ltd. Project: Denton NO.5 SWD Fax: 43-687-1570

6101 Holiday Hill Road Project Number: [none]

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Standard TAT

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