

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	2RP-5447
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Fasken Oil and Ranch, LTD	OGRID: 151416
Contact Name Aaron Pachlhofer	Contact Telephone 432-687-1777
Contact email aaronp@forl.com	Incident # (assigned by OCD) 2RP-5447
Contact mailing address 6101 Holiday Hill Road, Midland, TX, 79707	

Location of Release Source

Latitude 32.558197

Longitude -104.499148
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Gossett "20" No. 3H battery	Site Type Tank Battery
Date Release Discovered 5/20/19	API# 30-015-39349

Unit Letter	Section	Township	Range	County
I	20	20-S	25-E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Ronald Houghtailing)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 90 bbls	Volume Recovered (bbls) 75 bbl
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Valve on injection line failed, causing spill

Incident ID	2RP-5447
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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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> <input type="checkbox"/> <u>NO</u>
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> <input type="checkbox"/> <u>NO</u>
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> <input type="checkbox"/> <u>NO</u>
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> <input type="checkbox"/> <u>NO</u>
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> <input type="checkbox"/> <u>NO</u>
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> <input type="checkbox"/> <u>NO</u>
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> <input type="checkbox"/> <u>NO</u>
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> <input type="checkbox"/> <u>NO</u>
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> <input type="checkbox"/> <u>NO</u>
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> <input type="checkbox"/> <u>NO</u>
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> <input type="checkbox"/> <u>NO</u>
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> <input type="checkbox"/> <u>NO</u>

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Form C-141

State of New Mexico
Oil Conservation Division

NAB1914840406

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Incident ID	2RP-5447
District RP	
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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: Aaron PachlhoferTitle: Environmental CoordinatorSignature: Date: 10/16/20email: aaronp@forl.com

Telephone: _____

OCD OnlyReceived by: Cristina EadsDate: 10/19/2020

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NAB1914840406
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Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name:

Avon Pacheco

Title:

Environmental Coordinator

Signature:



Date:

10/16/20

email:

avonp@fari.com

Telephone:

432-687-1777**OCD Only**

Received by:

Cristina Eads

Date:

10/16/2020

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:

D E N I E D

Date:

12/15/2020

Printed Name:

Cristina Eads

Title:

Environmental Specialist



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

October 16, 2020

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

Site Closure request: Incident #2RP-5447

Mr. Hamlet,

On May 20, 2019 a spill occurred at the Fasken Oil and Ranch (Fasken) Gossett 20 battery when a valve on a water transfer line failed, spilling water inside the battery firewall and misting water onto the battery's improved caliche pad. The battery is located 32.558197°, -104.499148°. During the spill 90 barrels of produced water was released, and no crude oil was released. No pasture was affected. Please refer to the site plan for the spill area as collected by GPS. Incident number 2RP-5447 was assigned by the OCD.

Potential Receptors

According to the New Mexico State Engineer's Office, there is 1 well within 1/2 mile of the battery with a depth to ground water greater than 200 feet. 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 within 500 feet, playa lake, continually flowing watercourse, spring, fresh water well, or subsurface mine that have been identified within the distances specified on form C-141. However, this area is identified as 'high karst'. According to OCD staff, high karst requires the most stringent clean-up requirements, such as groundwater less than 50 feet below ground surface.

According to NMAC 19.15.29.12, Table 1, the chloride limit is 600 mg/kg

Sample Collection and Results

Following the initial spill response, a preliminary sample was collected from location S-1 on June 19, 2019 at the surface and 1 foot. The result of these samples showed chlorides over 10,000 mg/kg. On March 11, 2020 samples were collected the spill area at the surface and at 6 to 9 inches below ground surface (the depth attainable with hand auger). The results of the samples showed that many areas were less than 600 mg/kg chloride. BTEX and TPH analysis were requested for two sample locations near the point of release that appeared stained by hydrocarbons. BTEX results were all non-detect, and TPH had very low results at approximately 30 mg/kg. According to the analytical results, chlorides were over the Table 1 limits at S-1, S-9, S-10, S-11, S-12, S-12A, and S-13. Please refer to the analytical summary tables for a summary of all laboratory results and the attached sight plan for sample locations.

Delineation samples were collected on September 10, 2020 with chloride concentrations ranging from 14.7 to 213 mg/kg. BTEX and TPH were not present in any delineation samples.

Excavation of Material and Confirmation Sampling

On August 27, 2020, spill areas with chloride concentrations over 600 mg/kg were excavated to approximately 1.25' below ground surface. Within the firewall, excavation was conducted to maximum practicable extent due to the proximity to tanks in use, buried piping, and other equipment in use that could not be moved. Please refer to the Excavated Areas site plan.

Following excavation, confirmation samples were collected for chlorides, BTEX, and TPH. Laboratory result show that very low concentrations of benzene and toluene were present in some samples. Chlorides were present in all confirmation samples in concentrations ranging from 561 to 230 mg/kg.

All excavated soils have been transported for disposal to Lea Land Inc landfill.

RECCOMENDATION

Fasken recommends closing this release. Affected soils have been removed to below the Table 1 limits for groundwater less than 50 below ground surface. Since equipment in use within the firewall could not be moved for exaction, Fasken requests to defer further work until the facility is decommissioned if the OCD cannot grant closure for this spill.

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

Photos











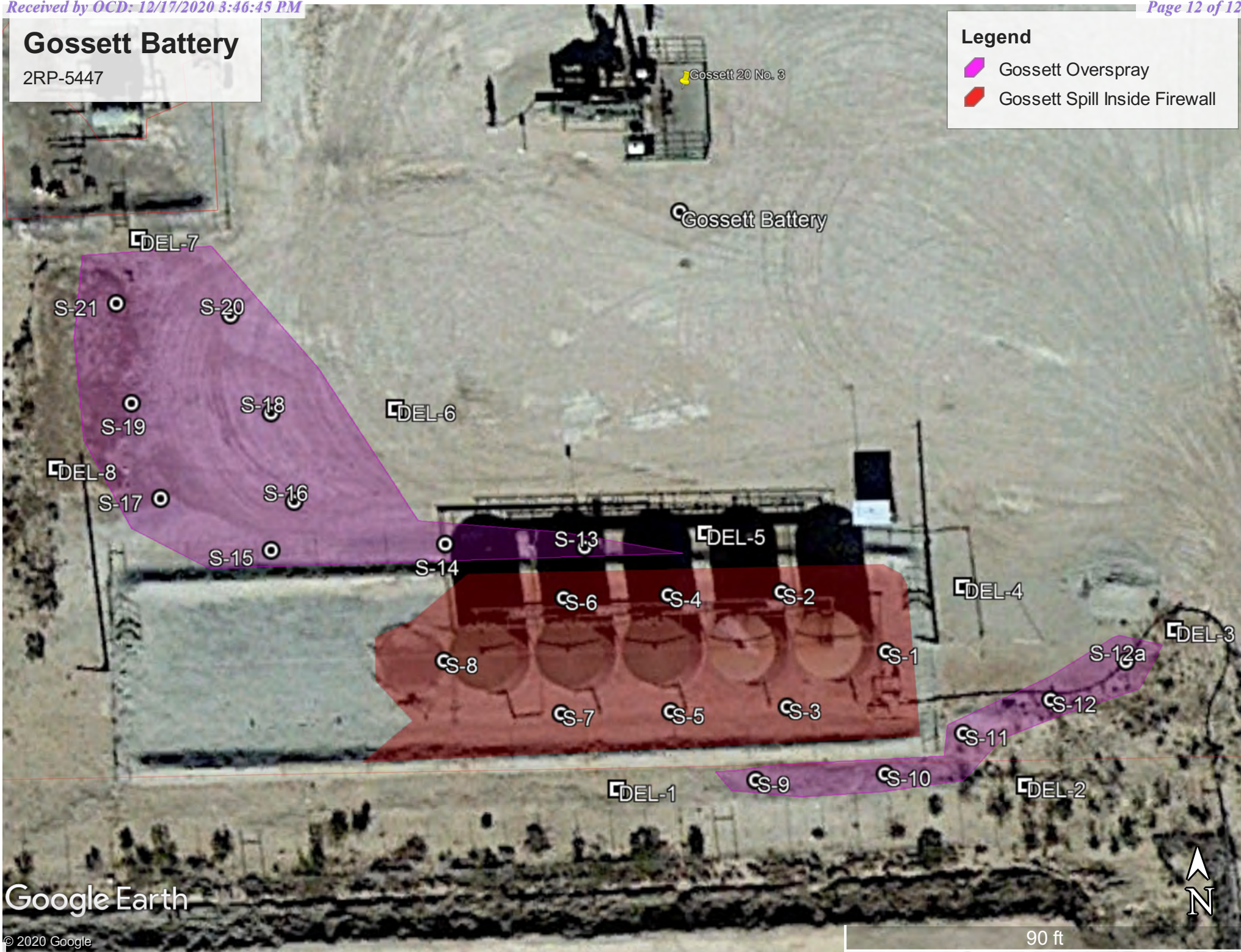


Gossett Battery

2RP-5447

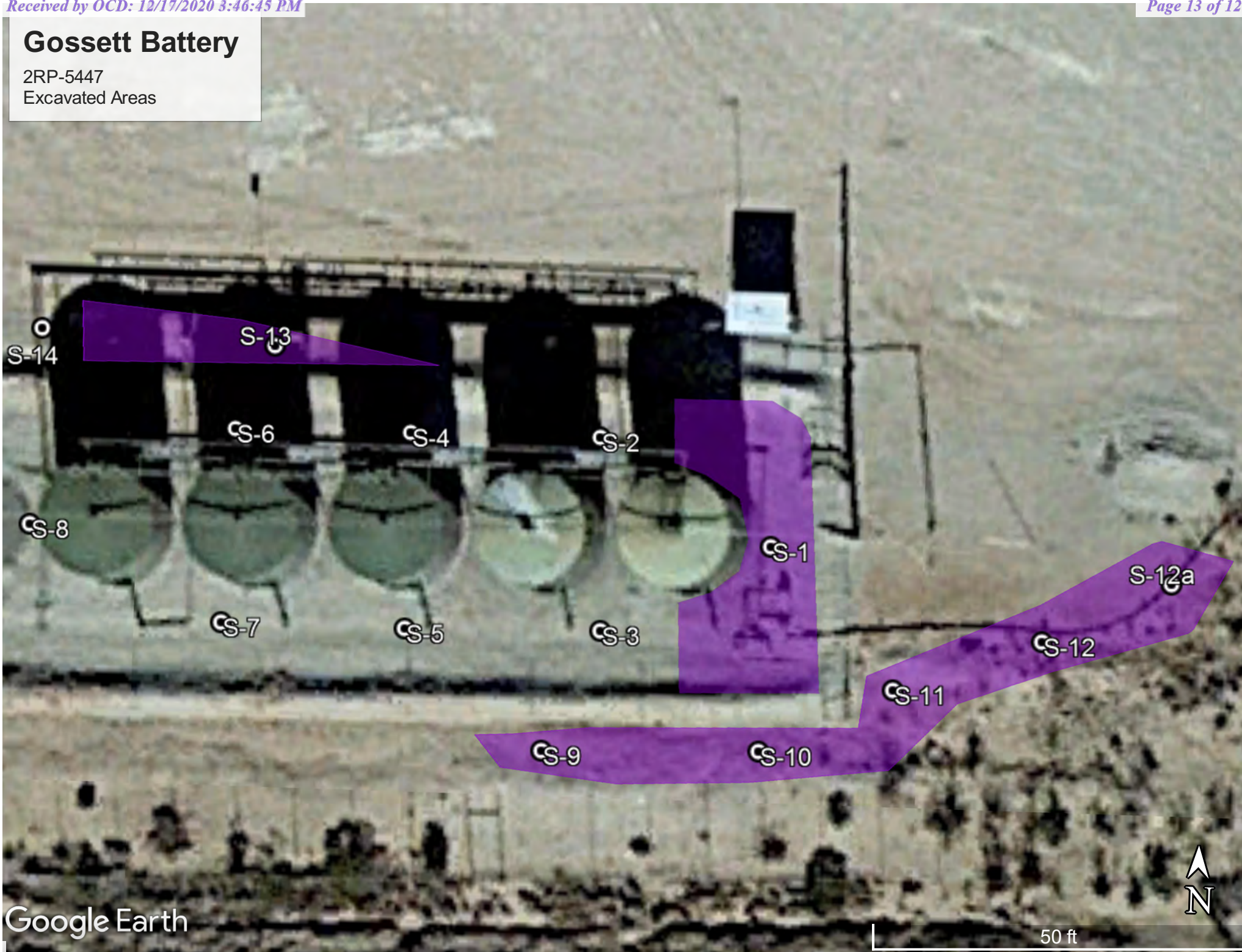
Legend

-  Gossett Overspray
-  Gossett Spill Inside Firewall



Gossett Battery

2RP-5447
Excavated Areas



2RP-5447 Gossett Battery Spill Soil Sample Results

Location	Date	Cl-	Benzene	Toluene	Ethyl-Benzene	Xylene	TPH C6-C12	TPH C12-C28	TPH >C28
S-1 Surface	6/19/2019	14100							
S-1 8"	6/19/2019	11300							
S-1 1'	9/10/2020	400	ND	ND	ND	ND	30	ND	ND
S-2 Surface	3/11/2020	99.2	ND	ND	ND	ND	30.3	ND	ND
S-2 6-9	3/11/2020	157							
S-3 Surface	3/11/2020	20	ND	ND	ND	ND	ND	33.1	ND
S-3 6-9	3/11/2020	32.3							
S-4 Surface	3/11/2020	33.9							
S-4 6-9	3/11/2020	48.3							
S-5 Surface	3/11/2020	56							
S-5 6-9	3/11/2020	305							
S-6 Surface	3/11/2020	24.5							
S-6 6-9	3/11/2020	25.1							
S-7 Surface	3/11/2020	62.3							
S-7 6-9	3/11/2020	135							
S-8 Surface	3/11/2020	24.2							
S-8 6-9	3/11/2020	29.4							
S-9 Surface	3/11/2020	4290							
S-9 6-9	3/11/2020	4660							
S-9 1.25'	9/10/2020	510	0.00283	0.00361	ND	ND	ND	ND	ND
S-10 Surface	3/11/2020	950							
S-10 6-9	3/11/2020	8280							
S-10 1.25'	9/10/2020	532	0.00211	0.0028	ND	ND	ND	ND	ND
S-11 Surface	3/11/2020	2680							
S-11 6-9	3/11/2020	2850							
S-11 1.25'	9/10/2020	561	0.00395	0.00713	ND	ND	ND	ND	ND
S-12 Surface	3/11/2020	5780							
S-12 6-9	3/11/2020	323							
S-12 1.25'	9/10/2020	280	ND	0.00235	ND	ND	ND	ND	ND
S-12A Surface	3/11/2020	11000							
S-12A 6-9	3/11/2020	3480							
12A 1.25'	9/10/2020	470	0.00316	0.00738	0.00118	ND	ND	ND	ND
S-13 Surface	3/11/2020	6660							
S-13 6-9	3/11/2020	1240							
S-13 1.25'	9/10/2020	230	ND	0.00105	ND	ND	ND	134	38.9
S-14 Surface	3/11/2020	453							
S-14 6-9	3/11/2020	124							
S-15 Surface	3/11/2020	27.8							
S-15 6-9	3/11/2020	123							
S-16 Surface	3/11/2020	570							
S-16 6-9	3/11/2020	91.4							
S-17 Surface	3/11/2020	55.5							
S-17 6-9	3/11/2020	30.1							

S-18 Surface	3/11/2020	42.3							
S-18 6-9	3/11/2020	22							
S-19 Surface	3/11/2020	559							
S-19 6-9	3/11/2020	94.2							
S-20 Surface	3/11/2020	65.5							
S-20 6-9	3/11/2020	18.1							
S-21 Surface	3/11/2020	15.7							
S-21 6-9	3/11/2020	14.8							
DEL-1	9/10/2020	14.7	ND	ND	ND	ND	ND	ND	ND
DEL-2	9/10/2020	159	ND	ND	ND	ND	ND	ND	ND
DEL-3	9/10/2020	18.1	ND	ND	ND	ND	ND	ND	ND
DEL-4	9/10/2020	18.8	ND	ND	ND	ND	ND	ND	ND
DEL-5	9/10/2020	21.6	ND	ND	ND	ND	ND	ND	ND
DEL-6	9/10/2020	213	ND	ND	ND	ND	ND	ND	ND
DEL-7	9/10/2020	33.2	ND	ND	ND	ND	ND	ND	ND
DEL-8	9/10/2020	90.9	ND	ND	ND	ND	ND	ND	ND

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



Analytical Report

Prepared for:

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

Project: Gossett 20 3H Battery

Project Number: [none]

Location: Eddy County, NM

Lab Order Number: 9F11001



NELAP/TCEQ # T104704516-18-9

Report Date: 06/13/19

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

Project: Gossett 20 3H Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 @ 0"	9F11001-01	Soil	06/06/19 09:00	06-10-2019 17:00
S-1 @ 8"	9F11001-02	Soil	06/06/19 09:05	06-10-2019 17:00

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

Project: Gossett 20 3H Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-1 @ 0"
9F11001-01 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	14100	55.6	mg/kg dry	50	P9F1102	06/11/19	06/11/19	EPA 300.0
% Moisture	10.0	0.1	%	1	P9F1204	06/12/19	06/12/19	ASTM D2216

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

Project: Gossett 20 3H Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-1 @ 8"
9F11001-02 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	11300	56.8	mg/kg dry	50	P9F1102	06/11/19	06/11/19	EPA 300.0	
% Moisture	12.0	0.1	%	1	P9F1204	06/12/19	06/12/19	ASTM D2216	

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

Project: Gossett 20 3H Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9F1102 - *** DEFAULT PREP ***										
Blank (P9F1102-BLK1)				Prepared & Analyzed: 06/11/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9F1102-BS1)				Prepared & Analyzed: 06/11/19						
Chloride	195	1.00	mg/kg wet	200		97.7	80-120			
LCS Dup (P9F1102-BSD1)				Prepared & Analyzed: 06/11/19						
Chloride	198	1.00	mg/kg wet	200		98.8	80-120	1.09	20	
Calibration Blank (P9F1102-CCB1)				Prepared & Analyzed: 06/11/19						
Chloride	-0.0440		mg/kg wet							
Calibration Blank (P9F1102-CCB2)				Prepared & Analyzed: 06/11/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9F1102-CCV1)				Prepared & Analyzed: 06/11/19						
Chloride	9.70		mg/kg	10.0		97.0	0-200			
Calibration Check (P9F1102-CCV2)				Prepared & Analyzed: 06/11/19						
Chloride	9.55		mg/kg	10.0		95.5	0-200			
Calibration Check (P9F1102-CCV3)				Prepared & Analyzed: 06/11/19						
Chloride	9.95		mg/kg	10.0		99.5	0-200			
Matrix Spike (P9F1102-MS1)				Source: 9F04012-15		Prepared & Analyzed: 06/11/19				
Chloride	547	1.16	mg/kg dry	581	2.77	93.7	80-120			
Matrix Spike (P9F1102-MS2)				Source: 9F05002-10		Prepared & Analyzed: 06/11/19				
Chloride	605	1.16	mg/kg dry	581	82.5	89.9	80-120			

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

Project: Gossett 20 3H Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9F1102 - * DEFAULT PREP *****

Matrix Spike Dup (P9F1102-MSD1)	Source: 9F04012-15			Prepared & Analyzed: 06/11/19						
Chloride	549	1.16	mg/kg dry	581	2.77	93.9	80-120	0.238	20	
Matrix Spike Dup (P9F1102-MSD2)	Source: 9F05002-10			Prepared & Analyzed: 06/11/19						
Chloride	614	1.16	mg/kg dry	581	82.5	91.5	80-120	1.49	20	

Batch P9F1204 - * DEFAULT PREP *****

Blank (P9F1204-BLK1)	Prepared & Analyzed: 06/12/19									
% Moisture	ND	0.1	%							
Duplicate (P9F1204-DUP1)	Source: 9F11006-07			Prepared & Analyzed: 06/12/19						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P9F1204-DUP2)	Source: 9F11006-20			Prepared & Analyzed: 06/12/19						
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P9F1204-DUP3)	Source: 9F11023-03			Prepared & Analyzed: 06/12/19						
% Moisture	13.0	0.1	%		14.0			7.41	20	
Duplicate (P9F1204-DUP4)	Source: 9F11028-03			Prepared & Analyzed: 06/12/19						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P9F1204-DUP5)	Source: 9F11030-12			Prepared & Analyzed: 06/12/19						
% Moisture	7.0	0.1	%		7.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Gossett 20 3H Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Report Approved By:



Date: 6/13/2019

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.



Phone: 432-686-7235

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

Project Manager: Aaron Pachthofer

Company Name Fasken Oil and Ranch, Ltd.

Company Address: 6101 Holiday Hill Road

City/State/Zip: Midland, TX 79707

Telephone No: 432-687-1777

Sampler Signature:

Fax No: 432-687-1570

e-mail: aaronp@forl.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #:

Project Loc: Eddy County, New Mexico

Project #:

Project Name: Gossett 20 3H Battery

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LAB # (lab use only)						
ORDER #: 9F1001						
FIELD CODE -01 S-I O" 8"	Beginning Depth		Date Sampled	Time Sampled	Field Filtered	Total #. of Containers
	Ending Depth					
			6/6/19	9:00	X	X
			6/6/19	9:05	X	S
Special Instructions:	Preservation & # of Containers					
	Matrix	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other				
	TPH: 418.1 8015M 8015B					
	TPH: TX 1005 TX 1006					
	Cations (Ca, Mg, Na, K)					
	Anions (Cl, SO ₄ , Alkalinity)					
	SAR / ESP / CEC					
	Metals: As Ag Ba Cd Cr Pb Hg Se					
	Volatiles					
	Semivolatiles					
	BTEX 8021B/5030 or BTEX 8260					
	RCI					
N.O.R.M.						
Glycol						
RUSH TAT (Pre-Schedule) 24, 48, 72 hrs						
Standard TAT						
Relinquished by: Aaron Pachinoter	Date 6/10/19	Time 17:00	Received by:	Date	Time	Laboratory Comments: Sample Containers intact? VOCs Free of Headspace? Labels on containers(s) Custody seals on container(s) Sample Hand Delivered by Sampler/Client Rep.? Temperature Upon Receipt: Adjusted °C Factor:
Relinquished by:	Date	Time	Received by:	Date	Time	
Relinquished by:	Date	Time	Received by:	Date	Time	

**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: Gossett Federal Battery

Project Number: none

Location: Eddy County, NM

Lab Order Number: 0C12001



NELAP/TCEQ # T104704516-18-9

Report Date: 03/20/20

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-2 Surface	0C12001-01	Soil	03/11/20 09:48	03-12-2020 12:00
S-2 6-9"	0C12001-02	Soil	03/11/20 09:51	03-12-2020 12:00
S-3 Surface	0C12001-03	Soil	03/11/20 10:36	03-12-2020 12:00
S-3 6-9"	0C12001-04	Soil	03/11/20 10:40	03-12-2020 12:00
S-4 Surface	0C12001-05	Soil	03/11/20 09:57	03-12-2020 12:00
S-4 6-9"	0C12001-06	Soil	03/11/20 10:00	03-12-2020 12:00
S-5 Surface	0C12001-07	Soil	03/11/20 10:28	03-12-2020 12:00
S-5 6-9"	0C12001-08	Soil	03/11/20 10:31	03-12-2020 12:00
S-6 Surface	0C12001-09	Soil	03/11/20 10:03	03-12-2020 12:00
S-6 6-9"	0C12001-10	Soil	03/11/20 10:06	03-12-2020 12:00
S-7 Surface	0C12001-11	Soil	03/11/20 10:18	03-12-2020 12:00
S-7 6-9"	0C12001-12	Soil	03/11/20 10:22	03-12-2020 12:00
S-8 Surface	0C12001-13	Soil	03/11/20 10:11	03-12-2020 12:00
S-8 6-9"	0C12001-14	Soil	03/11/20 10:14	03-12-2020 12:00
S-9	0C12001-15	Soil	03/11/20 10:50	03-12-2020 12:00
S-9 6-9"	0C12001-16	Soil	03/11/20 10:53	03-12-2020 12:00
S-10 Surface	0C12001-17	Soil	03/11/20 10:57	03-12-2020 12:00
S-10 6-9"	0C12001-18	Soil	03/11/20 11:01	03-12-2020 12:00
S-11 Surface	0C12001-19	Soil	03/11/20 11:05	03-12-2020 12:00
S-11 6-9"	0C12001-20	Soil	03/11/20 11:09	03-12-2020 12:00
S-12 Surface	0C12001-21	Soil	03/11/20 11:14	03-12-2020 12:00
S-12 6-9"	0C12001-22	Soil	03/11/20 11:20	03-12-2020 12:00
S-12a Surface	0C12001-23	Soil	03/11/20 11:25	03-12-2020 12:00
S-12a 6-9"	0C12001-24	Soil	03/11/20 11:28	03-12-2020 12:00
S-13 Surface	0C12001-25	Soil	03/11/20 13:35	03-12-2020 12:00
S-13 6-9"	0C12001-26	Soil	03/11/20 13:40	03-12-2020 12:00
S-14 Surface	0C12001-27	Soil	03/11/20 13:43	03-12-2020 12:00
S-14 6-9"	0C12001-28	Soil	03/11/20 13:47	03-12-2020 12:00
S-15 Surface	0C12001-29	Soil	03/11/20 13:59	03-12-2020 12:00
S-15 6-9"	0C12001-30	Soil	03/11/20 14:04	03-12-2020 12:00
S-16 Surface	0C12001-31	Soil	03/11/20 14:10	03-12-2020 12:00
S-16 6-9"	0C12001-32	Soil	03/11/20 14:14	03-12-2020 12:00
S-17 Surface	0C12001-33	Soil	03/11/20 14:17	03-12-2020 12:00
S-17 6-9"	0C12001-34	Soil	03/11/20 14:21	03-12-2020 12:00

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-18 Surface	0C12001-35	Soil	03/11/20 14:25	03-12-2020 12:00
S-18 6-9"	0C12001-36	Soil	03/11/20 14:30	03-12-2020 12:00
S-19 Surface	0C12001-37	Soil	03/11/20 14:35	03-12-2020 12:00
S-19 6-9"	0C12001-38	Soil	03/11/20 14:37	03-12-2020 12:00
S-20 Surface	0C12001-39	Soil	03/11/20 14:40	03-12-2020 12:00
S-20 6-9"	0C12001-40	Soil	03/11/20 14:45	03-12-2020 12:00
S-21 Surface	0C12001-41	Soil	03/11/20 14:50	03-12-2020 12:00
S-21 6-9"	0C12001-42	Soil	03/11/20 14:55	03-12-2020 12:00

On March 17, 2020, PBELAB Staff was advised to add BTEX and TPH to samples Surface-1 and Surface-3. This final report reflects those additions.

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-2 Surface
0C12001-01 (Soil)

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

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	POC1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	POC1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	POC1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	POC1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	POC1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		POC1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.4 %	75-125		POC1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	99.2	5.56	mg/kg dry	5	POC1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	POC1302	03/13/20	03/13/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	30.3	27.8	mg/kg dry	1	POC1802	03/18/20	03/18/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	POC1802	03/18/20	03/18/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	POC1802	03/18/20	03/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		POC1802	03/18/20	03/18/20	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		POC1802	03/18/20	03/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	30.3	27.8	mg/kg dry	1	[CALC]	03/18/20	03/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-2 6-9"

0C12001-02 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	157	5.68	mg/kg dry	5	P0C1304	03/13/20	03/13/20	EPA 300.0
% Moisture	12.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-3 Surface
0C12001-03 (Soil)

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

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.7 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	20.0	1.14	mg/kg dry	1	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0C1802	03/18/20	03/18/20	TPH 8015M	
>C12-C28	33.1	28.4	mg/kg dry	1	P0C1802	03/18/20	03/18/20	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0C1802	03/18/20	03/18/20	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P0C1802	03/18/20	03/18/20	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P0C1802	03/18/20	03/18/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	33.1	28.4	mg/kg dry	1	[CALC]	03/18/20	03/18/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-3 6-9"

0C12001-04 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	32.3	1.15	mg/kg dry	1	P0C1304	03/13/20	03/13/20	EPA 300.0
% Moisture	13.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-4 Surface
0C12001-05 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	33.9	10.6	mg/kg dry	10	P0C1304	03/13/20	03/13/20	EPA 300.0
% Moisture	6.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-4 6-9"

0C12001-06 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	48.3	11.4	mg/kg dry	10	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-5 Surface
0C12001-07 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	56.0	1.05	mg/kg dry	1	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-5 6-9"

0C12001-08 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	305	1.22	mg/kg dry	1	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	18.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-6 Surface
0C12001-09 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	24.5	5.15	mg/kg dry	5	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-6 6-9"
0C12001-10 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	25.1	1.14	mg/kg dry	1	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-7 Surface
0C12001-11 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	62.3	1.15	mg/kg dry	1	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-7 6-9"
0C12001-12 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	135.0	1.22	mg/kg dry	5	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	16.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-8 Surface
0C12001-13 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	24.2	1.02	mg/kg dry	1	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-8 6-9"
0C12001-14 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	29.4	1.03	mg/kg dry	1	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-9

0C12001-15 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	4290	11.4	mg/kg dry	10	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-9 6-9"
0C12001-16 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	4660	11.2	mg/kg dry	10	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-10 Surface
0C12001-17 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	9530	28.7	mg/kg dry	25	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-10 6-9"
0C12001-18 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	8280	11.2	mg/kg dry	10	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-11 Surface
0C12001-19 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	2680	29.1	mg/kg dry	25	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	14.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-11 6-9"
0C12001-20 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	2850	11.4	mg/kg dry	10	P0C1304	03/13/20	03/13/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-12 Surface
0C12001-21 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	5780	11.2	mg/kg dry	5	P0C1305	03/13/20	03/14/20	EPA 300.0	
% Moisture	14.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-12 6-9"
0C12001-22 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	323	5.81	mg/kg dry	10	P0C1305	03/13/20	03/14/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-12a Surface
0C12001-23 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	11000	11.2	mg/kg dry	10	P0C1305	03/13/20	03/14/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-12a 6-9"
0C12001-24 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	3480	27.8	mg/kg dry	25	P0C1305	03/13/20	03/14/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-13 Surface
0C12001-25 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	6660	10.8	mg/kg dry	10	P0C1305	03/13/20	03/14/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-13 6-9"
0C12001-26 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	1240	1.06	mg/kg dry	1	P0C1305	03/13/20	03/14/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-14 Surface
0C12001-27 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	453	1.09	mg/kg dry	1	P0C1305	03/13/20	03/14/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-14 6-9"
0C12001-28 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	124	1.04	mg/kg dry	1	P0C1305	03/13/20	03/14/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-15 Surface
0C12001-29 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	27.8	1.06	mg/kg dry	1	P0C1305	03/13/20	03/14/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-15 6-9"
0C12001-30 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	123	10.9	mg/kg dry	10	P0C1305	03/13/20	03/14/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-16 Surface
0C12001-31 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	570	5.49	mg/kg dry	5	P0C1305	03/13/20	03/16/20	EPA 300.0
% Moisture	9.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-16 6-9"
0C12001-32 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	91.4	1.05	mg/kg dry	1	P0C1305	03/13/20	03/16/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-17 Surface
0C12001-33 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	55.5	1.05	mg/kg dry	1	P0C1305	03/13/20	03/16/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-17 6-9"
0C12001-34 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	30.1	1.03	mg/kg dry	1	P0C1305	03/13/20	03/16/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-18 Surface
0C12001-35 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	42.3	1.11	mg/kg dry	1	P0C1305	03/13/20	03/16/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-18 6-9"
0C12001-36 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	22.0	1.10	mg/kg dry	1	P0C1305	03/13/20	03/16/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-19 Surface
0C12001-37 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	559	1.14	mg/kg dry	1	P0C1305	03/13/20	03/16/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-19 6-9"
0C12001-38 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	94.2	1.11	mg/kg dry	1	P0C1305	03/13/20	03/16/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-20 Surface
0C12001-39 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	65.5	1.11	mg/kg dry	1	P0C1305	03/13/20	03/16/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-20 6-9"

0C12001-40 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.1	1.09	mg/kg dry	1	P0C1305	03/13/20	03/16/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-21 Surface
0C12001-41 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.7	1.09	mg/kg dry	1	P0C1306	03/13/20	03/16/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland TX, 79707	Project: Gossett Federal Battery Project Number: none Project Manager: Aaron Pachlhofer	Fax: 43-687-1570
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S-21 6-9"
0C12001-42 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	14.8	1.09	mg/kg dry	1	P0C1306	03/13/20	03/16/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0C1302	03/13/20	03/13/20	ASTM D2216	

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C1703 - General Preparation (GC)

Blank (P0C1703-BLK1)

Prepared & Analyzed: 03/17/20

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: 1,4-Difluorobenzene	0.111		"	0.120		92.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			

LCS (P0C1703-BS1)

Prepared & Analyzed: 03/17/20

Benzene	0.0992	0.00100	mg/kg wet	0.100		99.2	70-130			
Toluene	0.0981	0.00100	"	0.100		98.1	70-130			
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130			
Xylene (p/m)	0.204	0.00200	"	0.200		102	70-130			
Xylene (o)	0.103	0.00100	"	0.100		103	70-130			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			

LCS Dup (P0C1703-BSD1)

Prepared & Analyzed: 03/17/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	70-130	8.34	20	
Toluene	0.107	0.00100	"	0.100		107	70-130	8.74	20	
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130	5.24	20	
Xylene (p/m)	0.226	0.00200	"	0.200		113	70-130	10.4	20	
Xylene (o)	0.115	0.00100	"	0.100		115	70-130	11.3	20	
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.131		"	0.120		109	75-125			

Calibration Blank (P0C1703-CCB1)

Prepared & Analyzed: 03/17/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.590		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.6	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.

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

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C1703 - General Preparation (GC)

Calibration Blank (P0C1703-CCB2)

Prepared & Analyzed: 03/17/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	75-125			

Calibration Check (P0C1703-CCV1)

Prepared & Analyzed: 03/17/20

Benzene	0.0912	0.00100	mg/kg wet	0.100		91.2	80-120			
Toluene	0.0912	0.00100	"	0.100		91.2	80-120			
Ethylbenzene	0.0968	0.00100	"	0.100		96.8	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.0	80-120			
Xylene (o)	0.0988	0.00100	"	0.100		98.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	75-125			

Calibration Check (P0C1703-CCV2)

Prepared & Analyzed: 03/17/20

Benzene	0.0934	0.00100	mg/kg wet	0.100		93.4	80-120			
Toluene	0.0944	0.00100	"	0.100		94.4	80-120			
Ethylbenzene	0.0986	0.00100	"	0.100		98.6	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.2	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.131		"	0.120		109	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	75-125			

Calibration Check (P0C1703-CCV3)

Prepared & Analyzed: 03/17/20

Benzene	0.0979	0.00100	mg/kg wet	0.100		97.9	80-120			
Toluene	0.0967	0.00100	"	0.100		96.7	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.200	0.00200	"	0.200		100	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.4	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C1703 - General Preparation (GC)

Matrix Spike (P0C1703-MS1)		Source: 0C16003-01			Prepared & Analyzed: 03/17/20					
Benzene	0.0754	0.00102	mg/kg dry	0.102	ND	73.9	80-120			QM-07
Toluene	0.0739	0.00102	"	0.102	ND	72.5	80-120			QM-07
Ethylbenzene	0.0894	0.00102	"	0.102	ND	87.6	80-120			
Xylene (p/m)	0.152	0.00204	"	0.204	ND	74.4	80-120			QM-07
Xylene (o)	0.0752	0.00102	"	0.102	ND	73.7	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.120		"	0.122		97.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.131		"	0.122		107	75-125			

Matrix Spike Dup (P0C1703-MSD1)		Source: 0C16003-01			Prepared & Analyzed: 03/17/20					
Benzene	0.0831	0.00102	mg/kg dry	0.102	ND	81.4	80-120	9.62	20	
Toluene	0.0823	0.00102	"	0.102	ND	80.7	80-120	10.7	20	
Ethylbenzene	0.0987	0.00102	"	0.102	ND	96.7	80-120	9.90	20	
Xylene (p/m)	0.169	0.00204	"	0.204	ND	82.7	80-120	10.5	20	
Xylene (o)	0.0840	0.00102	"	0.102	ND	82.3	80-120	11.0	20	
Surrogate: 1,4-Difluorobenzene	0.120		"	0.122		98.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.122		109	75-125			

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C1302 - * DEFAULT PREP *****

Blank (P0C1302-BLK1)

Prepared & Analyzed: 03/13/20

% Moisture	ND	0.1	%
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Duplicate (P0C1302-DUP1)

Source: 0C12001-26

Prepared & Analyzed: 03/13/20

% Moisture	6.0	0.1	%	6.0	0.00	20
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Duplicate (P0C1302-DUP2)

Source: 0C12001-42

Prepared & Analyzed: 03/13/20

% Moisture	9.0	0.1	%	8.0	11.8	20
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Batch P0C1304 - * DEFAULT PREP *****

Blank (P0C1304-BLK1)

Prepared & Analyzed: 03/13/20

Chloride	ND	0.100	mg/kg wet
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LCS (P0C1304-BS1)

Prepared & Analyzed: 03/13/20

Chloride	402	1.00	mg/kg wet	400	101	80-120
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LCS Dup (P0C1304-BSD1)

Prepared & Analyzed: 03/13/20

Chloride	404	1.00	mg/kg wet	400	101	80-120	0.462	20
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Calibration Blank (P0C1304-CCB1)

Prepared & Analyzed: 03/13/20

Chloride	0.00		mg/kg wet
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Calibration Blank (P0C1304-CCB2)

Prepared & Analyzed: 03/13/20

Chloride	0.00		mg/kg wet
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Calibration Check (P0C1304-CCV1)

Prepared & Analyzed: 03/13/20

Chloride	20.2		mg/kg	20.0	101	0-200
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Fasken Oil & Ranch, Ltd.
6101 Holiday Hill Road
Midland TX, 79707

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C1304 - * DEFAULT PREP *****

Calibration Check (P0C1304-CCV2)				Prepared & Analyzed: 03/13/20						
Chloride	20.1		mg/kg	20.0		101	0-200			
Matrix Spike (P0C1304-MS1)				Source: 0C12001-01 Prepared & Analyzed: 03/13/20						
Chloride	722	5.56	mg/kg dry	556	99.2	112	80-120			
Matrix Spike (P0C1304-MS2)				Source: 0C12001-12 Prepared & Analyzed: 03/13/20						
Chloride	2040	5.95	mg/kg dry	595	1350	115	80-120			
Matrix Spike Dup (P0C1304-MSD1)				Source: 0C12001-01 Prepared & Analyzed: 03/13/20						
Chloride	695	5.56	mg/kg dry	556	99.2	107	80-120	3.73	20	
Matrix Spike Dup (P0C1304-MSD2)				Source: 0C12001-12 Prepared & Analyzed: 03/13/20						
Chloride	2070	5.95	mg/kg dry	595	1350	121	80-120	1.71	20	

Batch P0C1305 - * DEFAULT PREP *****

Blank (P0C1305-BLK1)				Prepared: 03/13/20 Analyzed: 03/14/20						
Chloride	ND	0.100	mg/kg wet							
LCS (P0C1305-BS1)				Prepared & Analyzed: 03/13/20						
Chloride	425	1.00	mg/kg wet	400		106	80-120			
LCS Dup (P0C1305-BSD1)				Prepared: 03/13/20 Analyzed: 03/14/20						
Chloride	422	1.00	mg/kg wet	400		105	80-120	0.714	20	
Calibration Blank (P0C1305-CCB1)				Prepared & Analyzed: 03/13/20						
Chloride	0.00		mg/kg wet							

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C1305 - * DEFAULT PREP *****

Calibration Blank (P0C1305-CCB2) Prepared: 03/13/20 Analyzed: 03/14/20

Chloride	0.00		mg/kg wet							
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Calibration Check (P0C1305-CCV1) Prepared & Analyzed: 03/13/20

Chloride	20.8		mg/kg	20.0		104	0-200			
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Calibration Check (P0C1305-CCV2) Prepared: 03/13/20 Analyzed: 03/14/20

Chloride	20.8		mg/kg	20.0		104	0-200			
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Matrix Spike (P0C1305-MS1) Source: 0C12001-21 Prepared: 03/13/20 Analyzed: 03/14/20

Chloride	969	5.81	mg/kg dry	581	323	111	80-120			
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Matrix Spike (P0C1305-MS2) Source: 0C12001-31 Prepared: 03/13/20 Analyzed: 03/16/20

Chloride	1190	5.49	mg/kg dry	549	570	112	80-120			
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Matrix Spike Dup (P0C1305-MSD1) Source: 0C12001-21 Prepared: 03/13/20 Analyzed: 03/14/20

Chloride	919	5.81	mg/kg dry	581	323	102	80-120	5.34	20	
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Matrix Spike Dup (P0C1305-MSD2) Source: 0C12001-31 Prepared: 03/13/20 Analyzed: 03/16/20

Chloride	1210	5.49	mg/kg dry	549	570	117	80-120	1.89	20	
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Batch P0C1306 - * DEFAULT PREP *****

Blank (P0C1306-BLK1) Prepared: 03/13/20 Analyzed: 03/16/20

Chloride	ND	0.100	mg/kg wet							
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LCS (P0C1306-BS1) Prepared: 03/13/20 Analyzed: 03/16/20

Chloride	440	1.00	mg/kg wet	400		110	80-120			
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Fasken Oil & Ranch, Ltd.
6101 Holiday Hill Road
Midland TX, 79707

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C1306 - *** DEFAULT PREP ***										
LCS Dup (P0C1306-BSD1)				Prepared: 03/13/20 Analyzed: 03/16/20						
Chloride	442	1.00	mg/kg wet	400		110	80-120	0.343	20	
Calibration Blank (P0C1306-CCB1)				Prepared: 03/13/20 Analyzed: 03/16/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0C1306-CCB2)				Prepared: 03/13/20 Analyzed: 03/16/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0C1306-CCV1)				Prepared: 03/13/20 Analyzed: 03/16/20						
Chloride	22.6		mg/kg	20.0		113	0-200			
Calibration Check (P0C1306-CCV2)				Prepared: 03/13/20 Analyzed: 03/16/20						
Chloride	22.4		mg/kg	20.0		112	0-200			
Matrix Spike (P0C1306-MS1)				Source: 0C12004-06		Prepared: 03/13/20 Analyzed: 03/16/20				
Chloride	2950	27.2	mg/kg dry	2720	117	104	80-120			
Matrix Spike (P0C1306-MS2)				Source: 0C13001-03		Prepared: 03/13/20 Analyzed: 03/16/20				
Chloride	783	5.75	mg/kg dry	575	157	109	80-120			
Matrix Spike Dup (P0C1306-MSD1)				Source: 0C12004-06		Prepared: 03/13/20 Analyzed: 03/16/20				
Chloride	2950	27.2	mg/kg dry	2720	117	104	80-120	0.00923	20	
Matrix Spike Dup (P0C1306-MSD2)				Source: 0C13001-03		Prepared: 03/13/20 Analyzed: 03/16/20				
Chloride	808	5.75	mg/kg dry	575	157	113	80-120	3.12	20	

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C1802 - TX 1005

Blank (P0C1802-BLK1)

Prepared & Analyzed: 03/18/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	57.2		"	50.0		114	70-130			

LCS (P0C1802-BS1)

Prepared & Analyzed: 03/18/20

C6-C12	1080	25.0	mg/kg wet	1000		108	75-125			
>C12-C28	1180	25.0	"	1000		118	75-125			
Surrogate: 1-Chlorooctane	98.8		"	100		98.8	70-130			
Surrogate: o-Terphenyl	57.7		"	50.0		115	70-130			

LCS Dup (P0C1802-BSD1)

Prepared & Analyzed: 03/18/20

C6-C12	1040	25.0	mg/kg wet	1000		104	75-125	3.80	20	
>C12-C28	1180	25.0	"	1000		118	75-125	0.412	20	
Surrogate: 1-Chlorooctane	127		"	100		127	70-130			
Surrogate: o-Terphenyl	52.6		"	50.0		105	70-130			

Calibration Blank (P0C1802-CCB1)

Prepared & Analyzed: 03/18/20

C6-C12	24.2		mg/kg wet							
>C12-C28	24.1		"							
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	55.5		"	50.0		111	70-130			

Calibration Blank (P0C1802-CCB2)

Prepared & Analyzed: 03/18/20

C6-C12	24.5		mg/kg wet							
>C12-C28	19.0		"							
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	59.4		"	50.0		119	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C1802 - TX 1005										
Calibration Check (P0C1802-CCV1)				Prepared & Analyzed: 03/18/20						
C6-C12	472	25.0	mg/kg wet	500		94.3	85-115			
>C12-C28	460	25.0	"	500		92.0	85-115			
Surrogate: 1-Chlorooctane	91.8		"	100		91.8	70-130			
Surrogate: o-Terphenyl	43.1		"	50.0		86.1	70-130			
Calibration Check (P0C1802-CCV2)				Prepared & Analyzed: 03/18/20						
C6-C12	552	25.0	mg/kg wet	500		110	85-115			
>C12-C28	525	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	56.9		"	50.0		114	70-130			
Calibration Check (P0C1802-CCV3)				Prepared: 03/18/20 Analyzed: 03/19/20						
C6-C12	551	25.0	mg/kg wet	500		110	85-115			
>C12-C28	520	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	55.0		"	50.0		110	70-130			
Matrix Spike (P0C1802-MS1)				Source: 0C18005-02 Prepared: 03/18/20 Analyzed: 03/19/20						
C6-C12	1120	26.3	mg/kg dry	1050	37.9	103	75-125			
>C12-C28	1050	26.3	"	1050	249	76.4	75-125			
Surrogate: 1-Chlorooctane	127		"	105		121	70-130			
Surrogate: o-Terphenyl	51.9		"	52.6		98.6	70-130			
Matrix Spike Dup (P0C1802-MSD1)				Source: 0C18005-02 Prepared: 03/18/20 Analyzed: 03/19/20						
C6-C12	1170	26.3	mg/kg dry	1050	37.9	107	75-125	4.60	20	
>C12-C28	1070	26.3	"	1050	249	77.6	75-125	1.65	20	
Surrogate: 1-Chlorooctane	136		"	105		129	70-130			
Surrogate: o-Terphenyl	13.0		"	52.6		24.8	70-130			S-GC

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Report Approved By:



Date:

3/20/2020

Brent Barron, Laboratory Director/Technical Director

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

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Federal Battery
Project Number: none
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235



Project Manager: Aaron Pachthofer

Project Name: Gossett Federal Battery

Company Name: Fasken Oil and Ranch, Ltd

Project #:

Company Address: 6101 Holiday Hill Road

Project Loc: Eddy County, NM

City/State/Zip: Midland, TX 79707

PO #:

Telephone No: 432-687-1777

Fax No: 432-687-1570

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: aaronp@ford.com

(lab use only)

ORDER #: 0612001

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 418.1 8015M 6015E

TPH: TX 1005 TX 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 8021B/503D or BTEX 8260

RCI

N.O.R.M.

Glycol

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Preservation & # of Containers

Matrix

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

TOTAL

Special Instructions:

Inquired by: Aaron Pachthofer

Date: 3/12/20

Time: 12:00

Received by:

Date:

Time:

Inquired by:

Date:

Time:

Received by:

Date:

Time:

Inquired by:

Date:

Time:

Received by:

Date:

Time:

Inquired by:

Date:

Time:

Received by:

Date:

Time:

Inquired by:

Date:

Time:

Received by:

Date:

Time:

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Custody seals on cooler(s)?

Sample Hand Delivered by Sampler/Client Rep?

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 4.5 °C

Adjusted: 5.5 °C Factor 1.2

PBBLAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Manager: Aaron Pachthofer

Project Name: Gossett Federal Battery

Company Name: Fasken Oil and Ranch, Ltd

Project #:

Company Address: 6101 Holiday Hill Road

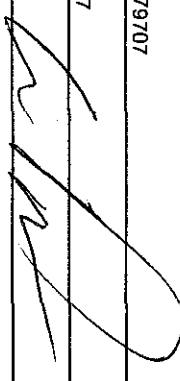
Project Loc: Eddy County, NM

City/State/Zip: Midland, TX 79707

PO #:

Telephone No: 432-687-1777

Fax No: 432-687-1570

Report Format: ☒ Standard ☐ TRRP ☐ NPDESSampler Signature: 

e-mail: aaronp@forl.com

(lab use only)

ORDER #: 0012001

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Glycol	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1	S-7 Surface			3/11/2020	10:18			X								S			X											X	
2	S-7 6-9"			3/11/2020	10:22			X								S			X											X	
3	S-8 Surface			3/11/2020	10:11			X								S			X											X	
4	S-8 6-9"			3/11/2020	10:14			X								S			X											X	
5	S-9 Surface			3/11/2020	10:50			X								S			X											X	
6	S-9 6-9"			3/11/2020	10:53			X								S			X											X	
7	S-10 Surface			3/11/2020	10:57			X								S			X											X	
8	S-10 6-9"			3/11/2020	11:01			X								S			X											X	
9	S-11 Surface			3/11/2020	11:05			X								S			X											X	
20	S-11 6-9"			3/11/2020	11:09			X								S			X											X	

Special Instructions:

Laboratory Comments:

Inquired by: Aaron Pachthofer

Date: 3/12/20 Time: 12:02

Received by:

Date: Date: Time: Time:

Inquired by:

Date: Date: Time: Time:

Received by:

Date: Date: Time: Time:

Inquired by:

Date: Date: Time: Time:

Received by:

Date: Date: Time: Time:

Inquired by:

Date: Date: Time: Time:

Received by:

Date: Date: Time: Time:

Sample Containers Intact? ☒ N
 VOCs Free of Headspace? ☒ N
 Labels on container(s)? ☒ N
 Custody seals on container(s)? ☒ N
 Custody seals on cooler(s)? ☒ N
 Sample Hand Delivered by Sampler/Client Rep.? ☒ N
 by Courier? ☒ N
 Temperature Upon Receipt: 45.5 °C
 Adjusted: 55.5 °C Factor 1.42

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235



Project Manager: Aaron Pachthofer

Company Name: Fasten Oil and Ranch, Ltd

Company Address: 6104 Holiday Hill Road

City/State/Zip: Midland, TX 79707

Telephone No: 432-687-1777

Sampler Signature:

e-mail: aaronp@forl.com

Fax No: 432-687-1570

Report Format: X Standard

☐ TRRP☐ NPDES

Project Name: Gossett Federal Battery

Project #:

Project Loc: Eddy County, NM

PO #:

ORDER #: OC12001

(lab use only)

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW=Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 418.1 8015M 8015E

TPH: IX 1005 TX 1008

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 0021B 5030 or BTEX 8260

RCI

N.O.R.M.

Glycol

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Preservation & # of Containers

Matrix

Analyze For:

TOTAL:

TCLP:

Special Instructions:

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Custody seals on cooler(s)?

Sample Hand Delivered?

by Courier? UPS, DHL, FedEx, Lone Star

Temperature Upon Receipt: 5.5 °C Factor 1.12

Inquired by: Aaron Pachthofer
Date: 3/12/20
Time: 12:00
Received by:

Date: 3/12/20
Time: 12:00
Received by:

Inquired by:

Date: 3/12/20
Time: 12:00
Received by:

Inquired by:

Date: 3/12/20
Time: 12:00
Received by:

PERM LAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235


Project Manager: Aaron Pachhofer

Company Name: Fasken Oil and Ranch, Ltd

Company Address: 6101 Holiday Hill Road

City/State/Zip: Midland, TX 79707

Telephone No: 432-687-1777

Sampler Signature: 

Fax No: 432-687-1570

e-mail: aaronp@forl.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Gossett Federal Battery

Project #:

Project Loc: Eddy County, NM

PO #:

(lab use only)

ORDER #: OC 12001

LAB # (lab use only)

FIELD CODE

41

S-21 Surface

42

S-21 6-9"

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 418.1 8015M 6015ETPH: TX 1005 TX 1006

Cations (Ca, Mg, Na, K)

Anions Cl, SO₄, Alkalinity

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 6021B 5030 or BTEX 6260

RC:

N.O.R.M.

Glycol

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL:

Special Instructions:

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Custody seals on cooler(s)?

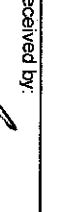
Sample Hand Delivered?

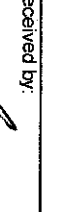
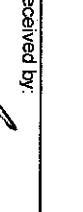
by Courier? UPS DHL FedEx Lone Star

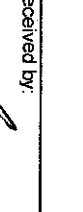
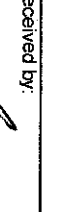
by Sampler/Client Rep.?

Temperature Upon Receipt:

Adjusted: 4.5 °C Factor 1.2

Inquired by: Aaron Pachhofer
Date: 3/12/20
Time: 12:00
Received by: 

Inquired by: 
Date: 3/12/20
Time: 12:00
Received by: 

Inquired by: 
Date: 3/12/20
Time: 12:00
Received by: 

**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: Gossett Battery
Project Number: [none]
Location: Eddy County, NM
Lab Order Number: 0H28008



NELAP/TCEQ # T104704516-17-8

Report Date: 09/11/20

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 @ 1'	0H28008-01	Soil	08/27/20 11:00	08-28-2020 14:20
S-9 @ 1.25'	0H28008-02	Soil	08/27/20 11:07	08-28-2020 14:20
S-10 @ 1.25'	0H28008-03	Soil	08/27/20 11:15	08-28-2020 14:20
S-11 @ 1.25'	0H28008-04	Soil	08/27/20 11:23	08-28-2020 14:20
S-12 @ 1.25'	0H28008-05	Soil	08/27/20 11:35	08-28-2020 14:20
S-12A @ 1.25'	0H28008-06	Soil	08/27/20 11:41	08-28-2020 14:20
S-13 @ 1.25'	0H28008-07	Soil	08/27/20 11:55	08-28-2020 14:20
DEL-1	0H28008-08	Soil	08/27/20 12:02	08-28-2020 14:20
DEL-2	0H28008-09	Soil	08/27/20 12:14	08-28-2020 14:20
DEL-3	0H28008-10	Soil	08/27/20 12:30	08-28-2020 14:20
DEL-4	0H28008-11	Soil	08/27/20 12:42	08-28-2020 14:20
DEL-5	0H28008-12	Soil	08/27/20 12:58	08-28-2020 14:20
DEL-6	0H28008-13	Soil	08/27/20 13:09	08-28-2020 14:20
DEL-7	0H28008-14	Soil	08/27/20 13:25	08-28-2020 14:20
DEL-8	0H28008-15	Soil	08/27/20 13:38	08-28-2020 14:20

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-1 @ 1'
0H28008-01 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.6 %		75-125	P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.0 %		75-125	P011002	09/10/20	09/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	400	5.5	mg/kg dry	50	P010311	09/03/20	09/04/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0H3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %		70-130	P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: o-Terphenyl		129 %		70-130	P011003	09/10/20	09/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/10/20	09/10/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-9 @ 1.25'
0H28008-02 (Soil)

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

BTEX by 8021B

Benzene	0.00283	0.00101	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Toluene	0.00361	0.00101	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.6 %	75-125		P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.4 %	75-125		P011002	09/10/20	09/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	510	5.5	mg/kg dry	10	P010311	09/03/20	09/04/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	POH3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-130		P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P011003	09/10/20	09/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	09/10/20	09/10/20	calc	

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-10 @ 1.25'
0H28008-03 (Soil)

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

BTEX by 8021B

Benzene	0.00211	0.00100	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Toluene	0.00280	0.00100	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.9 %	75-125		P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.3 %	75-125		P011002	09/10/20	09/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	532	5.00	mg/kg dry	5	P010311	09/03/20	09/04/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0H3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: o-Terphenyl		57.3 %	70-130		P011003	09/10/20	09/10/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/10/20	09/10/20	calc	

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-11 @ 1.25'
0H28008-04 (Soil)

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

BTEX by 8021B

Benzene	0.00395	0.00100	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Toluene	0.00713	0.00100	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.1 %	75-125		P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.7 %	75-125		P011002	09/10/20	09/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	561	5.0	mg/kg dry	50	P010311	09/03/20	09/04/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0H3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: o-Terphenyl		99.9 %	70-130		P011003	09/10/20	09/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/10/20	09/10/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-12 @ 1.25'
0H28008-05 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Toluene	0.00235	0.00101	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.4 %	75-125		P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.2 %	75-125		P011002	09/10/20	09/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	280	1.5	mg/kg dry	50	P010311	09/03/20	09/04/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0H3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-130		P011003	09/10/20	09/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	09/10/20	09/10/20	calc	

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-12A @ 1.25'
0H28008-06 (Soil)

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

BTEX by 8021B

Benzene	0.00316	0.00100	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Toluene	0.00738	0.00100	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Ethylbenzene	0.00118	0.00100	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.4 %	75-125		P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.2 %	75-125		P011002	09/10/20	09/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	470	5.5	mg/kg dry	50	P010311	09/03/20	09/04/20	EPA 300.0	
% Moisture	ND	0.1	%	1	POH3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P011003	09/10/20	09/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/10/20	09/10/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

S-13 @ 1.25'
0H28008-07 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Toluene	0.00105	0.00103	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.7 %	75-125		P011002	09/10/20	09/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.5 %	75-125		P011002	09/10/20	09/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	230	4.3	mg/kg dry	10	P010311	09/03/20	09/04/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0H3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C12-C28	134	25.8	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
>C28-C35	38.9	25.8	mg/kg dry	1	P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-130		P011003	09/10/20	09/10/20	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-130		P011003	09/10/20	09/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	173	25.8	mg/kg dry	1	[CALC]	09/10/20	09/10/20	calc	

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

DEL-1
0H28008-08 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0I0206	09/02/20	09/02/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0I0206	09/02/20	09/02/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0I0206	09/02/20	09/02/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0I0206	09/02/20	09/02/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0I0206	09/02/20	09/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.6 %	75-125		P0I0206	09/02/20	09/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.0 %	75-125		P0I0206	09/02/20	09/02/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	14.7	1.00	mg/kg dry	1	P0I0311	09/03/20	09/04/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0H3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0H2808	08/28/20	08/28/20	TPH 8015M	
Surrogate: o-Terphenyl		69.5 %	70-130		P0H2808	08/28/20	08/28/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	08/28/20	08/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

DEL-2
0H28008-09 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.8 %	75-125		P0I0307	09/03/20	09/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.8 %	75-125		P0I0307	09/03/20	09/03/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	159	1.00	mg/kg dry	1	P0I0311	09/03/20	09/07/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0H3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0H2808	08/28/20	08/28/20	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P0H2808	08/28/20	08/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	08/28/20	08/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

DEL-3
0H28008-10 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.8 %	75-125		P0I0307	09/03/20	09/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.8 %	75-125		P0I0307	09/03/20	09/03/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.1	1.0	mg/kg dry	10	P0I0311	09/03/20	09/04/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0H3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.3 %	70-130		P0H2808	08/28/20	08/28/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P0H2808	08/28/20	08/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	08/28/20	08/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

DEL-4
0H28008-11 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.6 %	75-125		P0I0307	09/03/20	09/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.4 %	75-125		P0I0307	09/03/20	09/03/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.8	1.00	mg/kg dry	1	P0I0311	09/03/20	09/04/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0H3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.8 %	70-130		P0H2808	08/28/20	08/28/20	TPH 8015M	
Surrogate: o-Terphenyl		68.7 %	70-130		P0H2808	08/28/20	08/28/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	08/28/20	08/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

DEL-5
0H28008-12 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.5 %	75-125		P0I0307	09/03/20	09/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.7 %	75-125		P0I0307	09/03/20	09/03/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	21.6	1.00	mg/kg dry	1	P0I0311	09/03/20	09/07/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0H3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0H2808	08/28/20	08/28/20	TPH 8015M	
Surrogate: o-Terphenyl		79.2 %	70-130		P0H2808	08/28/20	08/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	08/28/20	08/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

DEL-6
0H28008-13 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.9 %	75-125		P0I0307	09/03/20	09/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.2 %	75-125		P0I0307	09/03/20	09/03/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	213	1.00	mg/kg dry	1	P0I0311	09/03/20	09/04/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0H3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		88.2 %	70-130		P0H2808	08/28/20	08/28/20	TPH 8015M	
Surrogate: o-Terphenyl		54.6 %	70-130		P0H2808	08/28/20	08/28/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	08/28/20	08/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

DEL-7
0H28008-14 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0I0307	09/03/20	09/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.0 %	75-125		P0I0307	09/03/20	09/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.7 %	75-125		P0I0307	09/03/20	09/03/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	33.2	1.0	mg/kg dry	10	P0I0311	09/03/20	09/04/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0H3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/29/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/29/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.5 %	70-130		P0H2808	08/28/20	08/29/20	TPH 8015M	
Surrogate: o-Terphenyl		86.3 %	70-130		P0H2808	08/28/20	08/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	08/28/20	08/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

DEL-8
0H28008-15 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0I0310	09/03/20	09/04/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0I0310	09/03/20	09/04/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0I0310	09/03/20	09/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0I0310	09/03/20	09/04/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0I0310	09/03/20	09/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.2 %	75-125		P0I0310	09/03/20	09/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.6 %	75-125		P0I0310	09/03/20	09/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	90.9	1.00	mg/kg dry	5	P0I0311	09/03/20	09/04/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0H3103	08/31/20	08/31/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/29/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/29/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0H2808	08/28/20	08/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.2 %	70-130		P0H2808	08/28/20	08/29/20	TPH 8015M	
Surrogate: o-Terphenyl		60.4 %	70-130		P0H2808	08/28/20	08/29/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	08/28/20	08/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P010206 - General Preparation (GC)

Blank (P010206-BLK1)

Prepared & Analyzed: 09/02/20

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: 1,4-Difluorobenzene	0.101		"	0.120		84.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.0974		"	0.120		81.2	75-125			

LCS (P010206-BS1)

Prepared & Analyzed: 09/02/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130			
Toluene	0.0886	0.00100	"	0.100		88.6	70-130			
Ethylbenzene	0.0941	0.00100	"	0.100		94.1	70-130			
Xylene (p/m)	0.189	0.00200	"	0.200		94.6	70-130			
Xylene (o)	0.0924	0.00100	"	0.100		92.4	70-130			
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.0975		"	0.120		81.3	75-125			

LCS Dup (P010206-BSD1)

Prepared & Analyzed: 09/02/20

Benzene	0.111	0.00100	mg/kg wet	0.100		111	70-130	9.15	20	
Toluene	0.106	0.00100	"	0.100		106	70-130	18.2	20	
Ethylbenzene	0.105	0.00100	"	0.100		105	70-130	11.1	20	
Xylene (p/m)	0.218	0.00200	"	0.200		109	70-130	14.3	20	
Xylene (o)	0.105	0.00100	"	0.100		105	70-130	12.8	20	
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.0998		"	0.120		83.1	75-125			

Calibration Check (P010206-CCV1)

Prepared & Analyzed: 09/02/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0895	0.00100	"	0.100		89.5	80-120			
Ethylbenzene	0.0932	0.00100	"	0.100		93.2	80-120			
Xylene (p/m)	0.188	0.00200	"	0.200		93.8	80-120			
Xylene (o)	0.0937	0.00100	"	0.100		93.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.0973		"	0.120		81.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		83.8	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0I0206 - General Preparation (GC)

Calibration Check (P0I0206-CCV2)

Prepared & Analyzed: 09/02/20

Benzene	0.0991	0.00100	mg/kg wet	0.100		99.1	80-120			
Toluene	0.0947	0.00100	"	0.100		94.7	80-120			
Ethylbenzene	0.0962	0.00100	"	0.100		96.2	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.6	80-120			
Xylene (o)	0.0962	0.00100	"	0.100		96.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		85.1	75-125			

Calibration Check (P0I0206-CCV3)

Prepared: 09/02/20 Analyzed: 09/03/20

Benzene	0.0987	0.00100	mg/kg wet	0.100		98.7	80-120			
Toluene	0.0890	0.00100	"	0.100		89.0	80-120			
Ethylbenzene	0.0903	0.00100	"	0.100		90.3	80-120			
Xylene (p/m)	0.176	0.00200	"	0.200		87.8	80-120			
Xylene (o)	0.0940	0.00100	"	0.100		94.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		87.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.0965		"	0.120		80.4	75-125			

Matrix Spike (P0I0206-MS1)

Source: 0102003-01

Prepared & Analyzed: 09/02/20

Benzene	0.0884	0.00105	mg/kg dry	0.105	ND	84.0	80-120			
Toluene	0.0762	0.00105	"	0.105	ND	72.4	80-120			QM-07
Ethylbenzene	0.0933	0.00105	"	0.105	ND	88.6	80-120			
Xylene (p/m)	0.156	0.00211	"	0.211	ND	74.2	80-120			QM-07
Xylene (o)	0.0781	0.00105	"	0.105	ND	74.2	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.113		"	0.126		89.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.126		86.9	75-125			

Matrix Spike Dup (P0I0206-MSD1)

Source: 0102003-01

Prepared: 09/02/20 Analyzed: 09/03/20

Benzene	0.0926	0.00105	mg/kg dry	0.105	ND	87.9	80-120	4.61	20	
Toluene	0.0791	0.00105	"	0.105	ND	75.1	80-120	3.73	20	QM-07
Ethylbenzene	0.100	0.00105	"	0.105	ND	95.4	80-120	7.42	20	
Xylene (p/m)	0.166	0.00211	"	0.211	ND	79.0	80-120	6.30	20	QM-07
Xylene (o)	0.0838	0.00105	"	0.105	ND	79.6	80-120	7.11	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.112		"	0.126		88.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.126		89.3	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0I0307 - General Preparation (GC)

Blank (P0I0307-BLK1)

Prepared & Analyzed: 09/03/20

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: 1,4-Difluorobenzene	0.102		"	0.120		84.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.2	75-125			

LCS (P0I0307-BS1)

Prepared & Analyzed: 09/03/20

Benzene	0.113	0.00100	mg/kg wet	0.100		113	70-130			
Toluene	0.106	0.00100	"	0.100		106	70-130			
Ethylbenzene	0.105	0.00100	"	0.100		105	70-130			
Xylene (p/m)	0.220	0.00200	"	0.200		110	70-130			
Xylene (o)	0.108	0.00100	"	0.100		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.0992		"	0.120		82.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.9	75-125			

LCS Dup (P0I0307-BSD1)

Prepared & Analyzed: 09/03/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130	9.65	20	
Toluene	0.0979	0.00100	"	0.100		97.9	70-130	7.75	20	
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130	3.78	20	
Xylene (p/m)	0.204	0.00200	"	0.200		102	70-130	7.86	20	
Xylene (o)	0.0988	0.00100	"	0.100		98.8	70-130	8.62	20	
Surrogate: 4-Bromofluorobenzene	0.0988		"	0.120		82.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.0	75-125			

Calibration Blank (P0I0307-CCB1)

Prepared & Analyzed: 09/03/20

Benzene	0.00		mg/kg wet							
Toluene	0.460		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.500		"							
Xylene (o)	0.300		"							
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.102		"	0.120		85.1	75-125			

Permian Basin Environmental Lab, L.P.

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0I0307 - General Preparation (GC)

Calibration Blank (P0I0307-CCB2)

Prepared & Analyzed: 09/03/20

Benzene	0.00		mg/kg wet							
Toluene	0.420		"							
Ethylbenzene	0.530		"							
Xylene (p/m)	0.780		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		85.2	75-125			

Calibration Check (P0I0307-CCV1)

Prepared & Analyzed: 09/03/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0928	0.00100	"	0.100		92.8	80-120			
Ethylbenzene	0.0933	0.00100	"	0.100		93.3	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		94.9	80-120			
Xylene (o)	0.0931	0.00100	"	0.100		93.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.0994		"	0.120		82.8	75-125			

Calibration Check (P0I0307-CCV2)

Prepared & Analyzed: 09/03/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.0981	0.00100	"	0.100		98.1	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.2	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.9	75-125			

Calibration Check (P0I0307-CCV3)

Prepared & Analyzed: 09/03/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.0969	0.00100	"	0.100		96.9	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.0998		"	0.120		83.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.3	75-125			

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P010307 - General Preparation (GC)

Matrix Spike (P010307-MS1)		Source: 0103004-02		Prepared & Analyzed: 09/03/20						
Benzene	0.0722	0.00104	mg/kg dry	0.104	ND	69.3	80-120			QM-05
Toluene	0.0592	0.00104	"	0.104	0.00127	55.7	80-120			QM-05
Ethylbenzene	0.0626	0.00104	"	0.104	0.00343	56.8	80-120			QM-05
Xylene (p/m)	0.0876	0.00208	"	0.208	0.0106	37.0	80-120			QM-05
Xylene (o)	0.0452	0.00104	"	0.104	0.00322	40.3	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.113		"	0.125		90.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.125		96.7	75-125			

Matrix Spike Dup (P010307-MSD1)		Source: 0103004-02		Prepared & Analyzed: 09/03/20						
Benzene	0.0634	0.00104	mg/kg dry	0.104	ND	60.9	80-120	13.0	20	QM-05
Toluene	0.0558	0.00104	"	0.104	0.00127	52.4	80-120	6.09	20	QM-05
Ethylbenzene	0.0658	0.00104	"	0.104	0.00343	59.9	80-120	5.31	20	QM-05
Xylene (p/m)	0.0884	0.00208	"	0.208	0.0106	37.3	80-120	0.983	20	QM-05
Xylene (o)	0.0616	0.00104	"	0.104	0.00322	56.1	80-120	32.8	20	QM-05, R3
Surrogate: 4-Bromofluorobenzene	0.117		"	0.125		93.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.125		87.1	75-125			

Batch P010310 - General Preparation (GC)

Blank (P010310-BLK1)		Prepared & Analyzed: 09/03/20								
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	0.0980		"	0.120		81.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.2	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0I0310 - General Preparation (GC)

LCS (P0I0310-BS1)

Prepared & Analyzed: 09/03/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130			
Toluene	0.0995	0.00100	"	0.100		99.5	70-130			
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130			
Xylene (p/m)	0.199	0.00200	"	0.200		99.6	70-130			
Xylene (o)	0.103	0.00100	"	0.100		103	70-130			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0969		"	0.120		80.8	75-125			

LCS Dup (P0I0310-BSD1)

Prepared & Analyzed: 09/03/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130	0.529	20	
Toluene	0.0948	0.00100	"	0.100		94.8	70-130	4.87	20	
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130	0.165	20	
Xylene (p/m)	0.203	0.00200	"	0.200		101	70-130	1.71	20	
Xylene (o)	0.101	0.00100	"	0.100		101	70-130	1.89	20	
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		84.8	75-125			

Calibration Check (P0I0310-CCV1)

Prepared & Analyzed: 09/03/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.0969	0.00100	"	0.100		96.9	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.0998		"	0.120		83.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.3	75-125			

Calibration Check (P0I0310-CCV2)

Prepared: 09/03/20 Analyzed: 09/04/20

Benzene	0.0946	0.00100	mg/kg wet	0.100		94.6	80-120			
Toluene	0.0853	0.00100	"	0.100		85.3	80-120			
Ethylbenzene	0.0872	0.00100	"	0.100		87.2	80-120			
Xylene (p/m)	0.175	0.00200	"	0.200		87.5	80-120			
Xylene (o)	0.0892	0.00100	"	0.100		89.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.4	75-125			

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0I0310 - General Preparation (GC)

Calibration Check (P0I0310-CCV3)

Prepared: 09/03/20 Analyzed: 09/04/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.0923	0.00100	"	0.100		92.3	80-120			
Ethylbenzene	0.0948	0.00100	"	0.100		94.8	80-120			
Xylene (p/m)	0.187	0.00200	"	0.200		93.7	80-120			
Xylene (o)	0.0988	0.00100	"	0.100		98.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		84.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.5	75-125			

Matrix Spike (P0I0310-MS1)

Source: 0102005-02

Prepared: 09/03/20 Analyzed: 09/04/20

Benzene	0.0987	0.00112	mg/kg dry	0.112	ND	87.8	80-120			
Toluene	0.0876	0.00112	"	0.112	ND	78.0	80-120			QM-05
Ethylbenzene	0.103	0.00112	"	0.112	ND	91.8	80-120			
Xylene (p/m)	0.171	0.00225	"	0.225	ND	76.2	80-120			QM-05
Xylene (o)	0.0831	0.00112	"	0.112	ND	74.0	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.117		"	0.135		86.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.135		93.5	75-125			

Matrix Spike Dup (P0I0310-MSD1)

Source: 0102005-02

Prepared: 09/03/20 Analyzed: 09/04/20

Benzene	0.0987	0.00112	mg/kg dry	0.112	ND	87.8	80-120	0.0342	20	
Toluene	0.0882	0.00112	"	0.112	ND	78.5	80-120	0.728	20	QM-05
Ethylbenzene	0.104	0.00112	"	0.112	ND	92.8	80-120	1.07	20	
Xylene (p/m)	0.171	0.00225	"	0.225	ND	76.2	80-120	0.0591	20	QM-05
Xylene (o)	0.0839	0.00112	"	0.112	ND	74.7	80-120	0.955	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.115		"	0.135		85.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.135		92.8	75-125			

Batch P0I1002 - General Preparation (GC)

Blank (P0I1002-BLK1)

Prepared & Analyzed: 09/10/20

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	0.105		"	0.120		87.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.0	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P011002 - General Preparation (GC)

LCS (P011002-BS1)

Prepared & Analyzed: 09/10/20

Benzene	0.0941	0.00100	mg/kg wet	0.100		94.1	70-130			
Toluene	0.0921	0.00100	"	0.100		92.1	70-130			
Ethylbenzene	0.0985	0.00100	"	0.100		98.5	70-130			
Xylene (p/m)	0.190	0.00200	"	0.200		94.9	70-130			
Xylene (o)	0.104	0.00100	"	0.100		104	70-130			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		87.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.8	75-125			

LCS Dup (P011002-BSD1)

Prepared & Analyzed: 09/10/20

Benzene	0.0962	0.00100	mg/kg wet	0.100		96.2	70-130	2.27	20	
Toluene	0.0923	0.00100	"	0.100		92.3	70-130	0.282	20	
Ethylbenzene	0.0981	0.00100	"	0.100		98.1	70-130	0.427	20	
Xylene (p/m)	0.180	0.00200	"	0.200		90.1	70-130	5.21	20	
Xylene (o)	0.100	0.00100	"	0.100		100	70-130	3.57	20	
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.100		"	0.120		83.6	75-125			

Calibration Blank (P011002-CCB1)

Prepared & Analyzed: 09/10/20

Benzene	0.00		mg/kg wet							
Toluene	0.500		"							
Ethylbenzene	0.320		"							
Xylene (p/m)	0.580		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.0996		"	0.120		83.0	75-125			

Calibration Blank (P011002-CCB2)

Prepared & Analyzed: 09/10/20

Benzene	0.00		mg/kg wet							
Toluene	0.740		"							
Ethylbenzene	0.730		"							
Xylene (p/m)	1.21		"							
Xylene (o)	0.530		"							
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.4	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P011002 - General Preparation (GC)

Calibration Check (P011002-CCV1)		Prepared & Analyzed: 09/10/20								
Benzene	0.0922	0.00100	mg/kg wet	0.100		92.2	80-120			
Toluene	0.0936	0.00100	"	0.100		93.6	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.182	0.00200	"	0.200		91.2	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.8	75-125			

Calibration Check (P011002-CCV2)		Prepared & Analyzed: 09/10/20								
Benzene	0.0921	0.00100	mg/kg wet	0.100		92.1	80-120			
Toluene	0.0936	0.00100	"	0.100		93.6	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.176	0.00200	"	0.200		88.0	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		88.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		83.8	75-125			

Calibration Check (P011002-CCV3)		Prepared & Analyzed: 09/10/20								
Benzene	0.0941	0.00100	mg/kg wet	0.100		94.1	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.6	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.8	75-125			

Matrix Spike (P011002-MS1)		Source: 0H28008-01		Prepared & Analyzed: 09/10/20						
Benzene	0.0775	0.00103	mg/kg dry	0.103	ND	75.2	80-120			QM-05
Toluene	0.0753	0.00103	"	0.103	0.000711	72.3	80-120			QM-05
Ethylbenzene	0.0939	0.00103	"	0.103	ND	91.1	80-120			
Xylene (p/m)	0.142	0.00206	"	0.206	ND	68.9	80-120			QM-05
Xylene (o)	0.0763	0.00103	"	0.103	ND	74.0	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.111		"	0.124		89.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.124		86.9	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P011002 - General Preparation (GC)

Matrix Spike Dup (P011002-MSD1)		Source: 0H28008-01			Prepared & Analyzed: 09/10/20					
Benzene	0.0843	0.00103	mg/kg dry	0.103	ND	81.8	80-120	8.41	20	
Toluene	0.0904	0.00103	"	0.103	0.000711	87.0	80-120	18.4	20	
Ethylbenzene	0.113	0.00103	"	0.103	ND	110	80-120	18.7	20	
Xylene (p/m)	0.169	0.00206	"	0.206	ND	82.1	80-120	17.4	20	
Xylene (o)	0.0938	0.00103	"	0.103	ND	90.9	80-120	20.5	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.111		"	0.124		90.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.124		91.0	75-125			

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0H3103 - * DEFAULT PREP *****

Blank (P0H3103-BLK1)				Prepared & Analyzed: 08/31/20						
% Moisture	ND	0.1	%							
Blank (P0H3103-BLK2)				Prepared & Analyzed: 08/31/20						
% Moisture	ND	0.1	%							
Duplicate (P0H3103-DUP1)				Source: 0H28004-01		Prepared & Analyzed: 08/31/20				
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P0H3103-DUP2)				Source: 0H28007-04		Prepared & Analyzed: 08/31/20				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0H3103-DUP3)				Source: 0H28008-15		Prepared & Analyzed: 08/31/20				
% Moisture	ND	0.1	%		ND				20	

Batch P0I0311 - * DEFAULT PREP *****

Blank (P0I0311-BLK1)				Prepared: 09/03/20 Analyzed: 09/04/20						
Chloride	ND	1.00	mg/kg wet							
LCS (P0I0311-BS1)				Prepared: 09/03/20 Analyzed: 09/04/20						
Chloride	406	1.00	mg/kg wet	400	101	80-120				
LCS Dup (P0I0311-BSD1)				Prepared: 09/03/20 Analyzed: 09/04/20						
Chloride	400	1.00	mg/kg wet	400	99.9	80-120	1.57	20		
Calibration Blank (P0I0311-CCB1)				Prepared: 09/03/20 Analyzed: 09/04/20						
Chloride	0.00		mg/kg wet							

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0I0311 - *** DEFAULT PREP ***										
Calibration Blank (P0I0311-CCB2)				Prepared: 09/03/20 Analyzed: 09/04/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0I0311-CCV1)				Prepared: 09/03/20 Analyzed: 09/04/20						
Chloride	19.2		mg/kg	20.0		95.9	0-200			
Calibration Check (P0I0311-CCV2)				Prepared: 09/03/20 Analyzed: 09/04/20						
Chloride	19.8		mg/kg	20.0		98.8	0-200			
Calibration Check (P0I0311-CCV3)				Prepared: 09/03/20 Analyzed: 09/04/20						
Chloride	19.6		mg/kg	20.0		98.2	0-200			
Matrix Spike (P0I0311-MS1)				Source: 0H28007-03		Prepared: 09/03/20 Analyzed: 09/04/20				
Chloride	10200	28.1	mg/kg dry	2810	6940	116	80-120			
Matrix Spike (P0I0311-MS2)				Source: 0H28008-09		Prepared: 09/03/20 Analyzed: 09/07/20				
Chloride	621	1.00	mg/kg dry	500	159	92.4	80-120			
Matrix Spike Dup (P0I0311-MSD1)				Source: 0H28007-03		Prepared: 09/03/20 Analyzed: 09/04/20				
Chloride	9930	28.1	mg/kg dry	2810	6940	107	80-120	2.58	20	
Matrix Spike Dup (P0I0311-MSD2)				Source: 0H28008-09		Prepared: 09/03/20 Analyzed: 09/07/20				
Chloride	650	1.00	mg/kg dry	500	159	98.2	80-120	4.63	20	

Permian Basin Environmental Lab, L.P.

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0H2808 - TX 1005

Blank (P0H2808-BLK1)

Prepared & Analyzed: 08/28/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	96.4		"	100		96.4	70-130			
Surrogate: o-Terphenyl	52.5		"	50.0		105	70-130			

LCS (P0H2808-BS1)

Prepared & Analyzed: 08/28/20

C6-C12	879	25.0	mg/kg wet	1000		87.9	75-125			
>C12-C28	942	25.0	"	1000		94.2	75-125			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	51.8		"	50.0		104	70-130			

LCS Dup (P0H2808-BSD1)

Prepared & Analyzed: 08/28/20

C6-C12	883	25.0	mg/kg wet	1000		88.3	75-125	0.464	20	
>C12-C28	955	25.0	"	1000		95.5	75-125	1.43	20	
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	53.3		"	50.0		107	70-130			

Calibration Check (P0H2808-CCV1)

Prepared & Analyzed: 08/28/20

C6-C12	444	25.0	mg/kg wet	500		88.9	85-115			
>C12-C28	444	25.0	"	500		88.8	85-115			
Surrogate: 1-Chlorooctane	99.1		"	100		99.1	70-130			
Surrogate: o-Terphenyl	49.9		"	50.0		99.9	70-130			

Calibration Check (P0H2808-CCV2)

Prepared: 08/28/20 Analyzed: 08/29/20

C6-C12	504	25.0	mg/kg wet	500		101	85-115			
>C12-C28	494	25.0	"	500		98.8	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	55.6		"	50.0		111	70-130			

Permian Basin Environmental Lab, L.P.

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0H2808 - TX 1005

Calibration Check (P0H2808-CCV3)

Prepared: 08/28/20 Analyzed: 08/29/20

C6-C12	496	25.0	mg/kg wet	500		99.1	85-115			
>C12-C28	495	25.0	"	500		99.0	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	55.4		"	50.0		111	70-130			

Matrix Spike (P0H2808-MS1)

Source: 0H28006-04

Prepared: 08/28/20 Analyzed: 08/29/20

C6-C12	945	25.5	mg/kg dry	1020	17.8	90.9	75-125			
>C12-C28	1010	25.5	"	1020	ND	99.3	75-125			
Surrogate: 1-Chlorooctane	110		"	102		107	70-130			
Surrogate: o-Terphenyl	52.4		"	51.0		103	70-130			

Matrix Spike Dup (P0H2808-MSD1)

Source: 0H28006-04

Prepared: 08/28/20 Analyzed: 08/29/20

C6-C12	953	25.5	mg/kg dry	1020	17.8	91.6	75-125	0.803	20	
>C12-C28	1000	25.5	"	1020	ND	98.1	75-125	1.20	20	
Surrogate: 1-Chlorooctane	110		"	102		108	70-130			
Surrogate: o-Terphenyl	52.9		"	51.0		104	70-130			

Batch P0I1003 - TX 1005

Blank (P0I1003-BLK1)

Prepared & Analyzed: 09/10/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	60.8		"	50.0		122	70-130			

LCS (P0I1003-BS1)

Prepared & Analyzed: 09/10/20

C6-C12	1020	25.0	mg/kg wet	1000		102	75-125			
>C12-C28	1070	25.0	"	1000		107	75-125			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	61.0		"	50.0		122	70-130			

Permian Basin Environmental Lab, L.P.

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P011003 - TX 1005

LCS Dup (P011003-BSD1)

Prepared & Analyzed: 09/10/20

C6-C12	1020	25.0	mg/kg wet	1000		102	75-125	0.361	20	
>C12-C28	1060	25.0	"	1000		106	75-125	0.782	20	
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	60.2		"	50.0		120	70-130			

Calibration Check (P011003-CCV1)

Prepared & Analyzed: 09/10/20

C6-C12	515	25.0	mg/kg wet	500		103	85-115			
>C12-C28	515	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	59.1		"	50.0		118	70-130			

Matrix Spike (P011003-MS1)

Source: 0H28008-07

Prepared & Analyzed: 09/10/20

C6-C12	1010	25.8	mg/kg dry	1030	17.6	96.6	75-125			
>C12-C28	1080	25.8	"	1030	134	91.6	75-125			
Surrogate: 1-Chlorooctane	118		"	103		115	70-130			
Surrogate: o-Terphenyl	57.0		"	51.5		111	70-130			

Matrix Spike Dup (P011003-MSD1)

Source: 0H28008-07

Prepared & Analyzed: 09/10/20

C6-C12	1030	25.8	mg/kg dry	1030	17.6	98.4	75-125	1.88	20	
>C12-C28	1090	25.8	"	1030	134	92.7	75-125	1.25	20	
Surrogate: 1-Chlorooctane	122		"	103		118	70-130			
Surrogate: o-Terphenyl	57.8		"	51.5		112	70-130			

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

Notes and Definitions

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

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.

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:

9/11/2020

Brent Barron, Laboratory Director/Technical Director

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

Permian Basin Environmental Lab, L.P.

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

Project: Gossett Battery
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

PERM LAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

1 of 2

Project Manager:

Aaron Pack/Hofer

Project Name:

Cossett Battery

Company Name:

Fosken Oil & Ranch

Project #:

Company Address:

Project Loc:

Eddy County, NM

City/State/Zip:

PO #:

Telephone No:

Fax No:

Report Format:

☒ Standard☐ TRRP☐ NPDES

Sampler Signature:

e-mail:

aaronpack@perm1.com

(Lab use only)

ORDER #:

OH280008

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: TX 1006 TX 1006	Anions (CO ₃ , SO ₄ , Alkalinity)	BTEX 8021B/5030 or BTEX 8260	Hold BTEX/TPH until P.M. approx	ANALYZE FOR:	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
-01	S-1	1'		8/24/20	11:00																			
-02	S-9	1.25'			11:07																			
-03	S-10	1.25'			11:15																			
-04	S-11	1.25'			11:23																			
-05	S-12	1.25'			11:35																			
-06	S-12A	1.25'			11:41																			
-07	S-13	1.25'			11:55																			
-08	DEL-1				12:02																			
-09	DEL-2				12:14																			
-10	DEL-3				12:30																			

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers: 100% Free of Headspace

Labels on containers: Custody seals on containers

Custody seals on containers: Custody seals on containers

Sample Hand Delivered: Sample Hand Delivered

by Courier: UPS

Temperature Upon Receipt: 4.9/5.8

Adjusted: 0.1

Factor: 1.2

PBBLAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

2 of 2

Project Manager:

Company Name:

Company Address:

City/State/Zip:

Telephone No:

Sampler Signature:

Fax No:

e-mail:

Project Name:

Project #:

Project Loc:

PO #:

Report Format:

☐ Standard☐ TRRP☐ NPDES

Analyze For:

TCLP:

TOTAL:

TCLP:

TOTAL:

TCLP:

TOTAL:

TCLP:

TOTAL:

TCLP:

TOTAL:

ORDER #: 01A28008

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ica

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: TX 1D05 TX 1D06

Anions (Cl, SO₄, Alkalinity)

BTEX 8021B/503D or BTEX 6260

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:
Sample Containers intact?
VOCs free of Headspace?
Labels (if applicable)
Custody seals on containers
Outlets seals on containers
Sample Hand Delivered
by Sampler/Client Rep?
by Courier? UPS? DHL?
Temperature Upon Receipt
Received 43 °C
Adjusted 51.5 °C Factor CFI 12

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 10715

CONDITIONS OF APPROVAL

Operator:		OGRID:	Action Number:	Action Type:
FASKEN OIL & RANCH LTD	6101 Holiday Hill	151416	10715	C-141
Road	Midland, TX79707			

OCD Reviewer	Condition
ceads	None