

REMEDIATION PLAN

Ross Ranch 22 Battery

(Closest Well: Ross Ranch 22 Well #002)

API NO. 30-015-27458

INCIDENT ID: NRH2002854238

DOR: 12/12/2019

U/L E, SECTION 22, TOWNSHIP 19S, RANGE 25E

EDDY COUNTY, NEW MEXICO



#7 COMPRESS ROAD ARTESIA, NM 88210



September 30, 2020

State of New Mexico Energy Minerals and Natural Resources Department
Oil Conservation Division – District II
C/O Mike Bratcher, Robert Hamlet and Victoria Venegas
811 S. First Street
Artesia, NM 88210

Spur Energy Partners C/O Braidy Moulder 919 Milam Street Suite 2475 Houston, TX 77002

Subject:

Remediation Plan

Ross Ranch 22 Battery

Date of Release: December 12, 2019

API No. 30-015-27458 (Ross Ranch 22 Well #002) U/L E, Section 22, Township 19 South, Range 25 East

To Whom it May Concern:

Spur Energy Partners has retained ESS (Energy Staffing and Services), Environmental & Regulatory Division to address the environmental compliances needs concerning the release detailed herein. Below you will find site specific information concerning the delineation process that has taken place at the Ross Ranch 22 Battery

SITE BACKGROUND

The site is located in Eddy County, New Mexico, just east of Highway 285 south of Artesia, New Mexico. The incident occurred on December 12, 2019 due to a waterline that busted off of the FWKO due to corrosion. The line was immediately isolated and the leak was stopped and repaired. Approximately, 1bbl of crude oil and 20bbls of produced water was released. A vacuum truck was immediately dispatched to location to recover approximately 1bbls of crude oil and 19bbls of produced water from surface of the ground. The recovered fluid was then transported to a disposal.

The visually affected area of impacted soil is approximately 11,959 sq. ft., which was found inside the location pad, no fluid ran out to the pasture area.

GENERAL SITE CHARACTERISTICS

ESS has conducted an extended groundwater study of the area and it has been determined that according to the New Mexico Office of the State Engineer, the depth of ground water is estimated located at 60'bgs (below ground surface). The closest well to the site is labelled RA 03304. Please see the list below for ground water wells found within a 1000' from the impacted area:

RA 00304: 308' (0.05) miles from the site, drilled in 1954 with groundwater of 60'bgs RA 08986: 342' (0.06) miles from the site, drilled in 1995 with groundwater of 220'bgs RA 02909: 823' (0.15) miles from the site, drilled in 1952 with groundwater of 130'bgs

All three wells are found to be down gradient of the Ross Ranch 22 Battery. Please see the attached groundwater map for well placements.

Using the Table I, Closure Criteria for Soils Impacted by a Release Dated 8/14/2018, this site falls under the site ranking of greater than 100'bgs as RA 00304 is outside the 25-year standard. Therefore, RA 08986 will be used to determine groundwater depth at this facility. RA 08986 is within the 25-year requirement and within a ½ mile. The Ross Ranch 22 Tank Battery release detailed herein was sampled using the following criteria:

Closure Criteria for Soil NMAC 19.15.29						
Depth Constituent Method Limit						
>100 feet	Chloride	EPA 300.0 OR SM4500 CL B	20,000 mg/kg			
	TPH (GRO+DRO+MRO)	EPA SW-846 Method	2,500 mg/kg			
	GRO + DRO	EPA SW-846 Method 8015M	1,000 mg/kg			
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg			
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg			

KARST INFORMATION

After conducting the karst mapping investigation, it is determined that the Ross Ranch 22 Battery is located in the medium karst area indicated in blue on the attached Karst Map. With this determination the Closure Criteria for Soils Impacted by a Release Dated 8/14/2018, the site falls under the site ranking of less than 50' depth to ground water. The Ross Ranch 22 Tank Battery release detailed herein was sampled using the following criteria:

DGW	Constituent	Method	Limit
≤ 50'	Chloride	EPA 300.0 OR SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	100 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	50 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

DISTANCE TO NEAREST POTABLE WATER WELL

Based on the review of the NMOSE Database, registered potable water wells are present within ½ of the Ross Ranch 22 Battery. During the OSE POD search the three water wells listed above are found as well. RA-02909 shows to be the closed well and within ½ a mile from the site not the RA-003304.

RA-02909 shows to be 0.26 miles (1372.8') from the site (domestic Ross Ranch) RA-08986 shows to be 0.56 miles (2956.8') from the site (developed for natural resources-Yates)

RA-03304 shows to be .9 miles (4752') from the site (domestic SW Stockton)

With the information provided, it is safe to say that groundwater will not be a factor for this site. Please see the OSE POD Map and information found above to be attached to this report. With the delineation and closure sample criteria being the most stringent due to the karst determination and water well data within the 25 years and ½ a mile protocol, the data provided supports the delineation process for this site.

DISTANCE TO NEAREST SURFACE WATER

Brantley Lake near Lakewood is the closest surface water to the Ross Ranch 22 Battery and is found to be approximately 6.26 miles southeast of the site. It is registered under USGS as 08399500 Pecos River on the USGS. Gov website.

SOIL CHARACTERISTICS

According to the USDA Resource Conservation Service, the soil survey indicates the following (please see the soil map and information attached):

100% Reagan-Upton Association with 0-9 percent slopes

SOIL REMEDIAL ACTION LEVELS

ESS proposes to remediate this crude oil and produced water impacted soil for the Skelly Unit #940 Battery release consistent with the remediation/abatement goals and objectives set forth in the NMOCD (New Mexico Oil Conservation Division) Closure Criteria for Soils Impacted by a Release, dated August 14, 2018 and by BLM Guidelines.

The guidance document provides direction for Spur Energy's initial response actions, site assessment, sampling procedures conducted by ESS Staff, we would like to present to you the following information concerning the delineation process for the release detailed herein.

Soil Sampling Procedures

Soil sampling for laboratory analysis was conducted according to the NMOCD – approved industry standards. Accepted NMOCD soil sampling procedures and laboratory analytical methods are as follows:

- Collect clean samples in air tight glass jars supplied by the laboratory to conduct the analysis
- Each sample jar was labelled with site and sample information
- Samples were kept in and stored in a cool place and packed on ice
- Promptly ship sample to the lab for analysis following the chain of custody procedures

The following lab analysis method was used for each bottom hole and side wall sample submitted to Envirotech Analytical Laboratory:

Volatile Organics by EPA 8021B

Benzene, Toluene, Ethylbenzene, p.m. Xylene, o-Xylene and Total Xylenes

Nonhalogenated Organics by EPA 8015D – GRO

Gasoline Range Organics (C6-C10)

Nonhalogenated Organics by EPA 8015D – DRO/ORO

- Diesel Range Organics (C10-C28)
- Oil Range Organics (C28-C40)

Anions by EPA 300.0/9056A

Chloride

DELINEATION INFORMATION

On or around March 20th of 2020, Hungry Horse, LLC personnel-initiated the delineation of the site. Surface soil samples were collected and field tested for chloride and BTEX/TPH. The Titration Method was used to sample for chlorides and a PID Meter was used to indicate concentrations of TPH/BTEX found in the soil. Below you will find the Sample Data for the surface samples obtained from the impacted area:

SP ID	DEPTH	TITR	PID
SP1	SURF	1200	TPH
SP2	SURF	880	TPH
SP3	SURF	400	TPH
SP4	SURF	400	TPH
SP5	SURF	3280	TPH
SP6	SURF	1680	TPH
SP7	SURF	18,800	TPH
SP8	SURF	3200	TPH
SP9	SURF	1680	TPH
SP10	SURF	760	TPH
SP11	SURF	760	TPH
SP12	SURF	3250	TPH

The 200 sq. ft. sampling procedure was not used at this site due to the production equipment, surface and buried production lines in the area of impact.

After surface samples were tested in the field, crews began to fully delineate the site. Field samples were taken using a hand auger due to lines and production equipment in the impacted area, these samples were taken in 1' intervals. Both Hydrocarbon and Chloride contaminated soil was found during the delineation process. Rock was encountered in the area SP2 and further sampling could not be conducted. By having to use a hand auger to delineate with, the depth of 14'bgs was the deepest depth tested. Sample points that still had levels above the regulated concentrations for this site that could not be reached below the 12' and 14'bgs depth were, SP3 @ 14'bgs, SP8 @ 12'bgs and SP11 @ 12'bgs. No equipment could be used due to production lines and production equipment being in the area of impact. H2S was also a factor at this facility, therefore safety precautions were used to not cause a spark of any kind. Samples were jarred and sent to Envirotech Laboratories for confirmation. Below you will find bottom hole sample depths, with field data as well as lab analysis. (Please also see sample data log found inside this report for details.)

SP ID	DEPTH	TITR	L-CHL	L-BTEX	L-GRO	L- DRO	L-MRO	TTL TPH
SP1	7'	400	1000	ND	ND	30.1	ND	30.1
SP2	4'	800	1430	ND	ND	192	89.7	281.7
SP3	14'	80	83.6	0.101	ND	639	306	945
SP4	5'	320	1250	ND	ND	ND	ND	ND
SP5	8'	400	91	ND	ND	71.2	ND	71.2
SP6	7'	240	306	ND	ND	51.6	ND	51.6
SP7	4'	400	716	ND	ND	ND	ND	ND
SP8	12'	80	157	ND	ND	80.8	ND	80.8
SP9	12'	160	39.7	ND	ND	52.1	ND	ND
SP10	4'	240	52.3	ND	ND	44	ND	44
SP11	12'	80	213	0.733	ND	402	178	580
SP12	12'	240	410	ND	ND	39.2	ND	39.2

The site was then fully delineated for horizontal extent. The horizontal delineation was sampled in 1' intervals until field samples indicated that we had reached the end of the horizontal delineation investigation. In the area of SW1, several buried lines were found therefore testing ceased. The concentrations for TPH was extremely higher than the levels needed for closure for this site. Additional sidewall testing will be conducted during the remediation process. During the sampling event, the area had large rain storms which prohibited any further testing outside the lines that were buried. Sidewall samples were then jarred and delivered to Envirotech for confirmation. Below you will find the delineation and lab confirmation information (please also see sample data log attached to this report):

SP ID	DEPTH	TITR	PID	L-CHL	L-BTEX	L-GRO	L- DRO	L-MRO	TTL TPH
SW 1	SURF	560	TPH						
	1'	480	TPH						
	2'	400	TPH	1070	ND	ND	11,900	8510	20,410
			- Smile				" - S - T		
SW 2	SURF	360	TPH						
	1'	240	TPH						
	2'	240	ТРН	ND	ND	ND	641	429	1070
SW 3	SURF	560	TPH						
	1'	480	TPH						
	21	480		331	ND	ND	125	203	328
-184			Ø.						
SW 4	SURF	400	TPH						
	1'	160	TPH						
	2'	80		ND	ND	ND	147	91.2	238.2
			W. P.E. JA		utvillen -				

SW 5	SURF	320	TPH						
	1'	160	TPH						
	2'	80		ND	ND	ND	326	422	748
SW 6	SURF	400	ТРН						
	1'	320	TPH						
	2'	240		ND	ND	ND	96.2	103	199.2
THE STATE OF	E 50.			JAN .					

CONCLUSION, REMEDIATION WORK PLAN AND DEFERRAL REQUEST

Numerous restrictions were specified above such as buried lines, surface lines and production equipment that halted full delineation of the site. During delineation, we were unable to reach the chloride levels needed for full delineation of the site. The major issues found during the delineation process, were due to hydrocarbon impact. As you can see, with the active production at this site, numerous surface and buried lines, and the 19 separators in the area of impact, full remediation cannot be conducted until the site has been abandoned. At this time, Spur Energy as decided to remove the heater treaters to conduct the following remediation procedure.

- The entire impacted area of 11,959 sq. ft., will be excavated to 5'bgs
- Final closure samples will be obtained, with giving the OCD 48 hours' notice to attend the sampling event, the area of SW1 will be expanded when horizontal sampling can continue when production equipment is removed.
- Due to the rocky soil which was encountered during the delineation process, the bottom of the excavation will be padded with 1' of topsoil
- A 30mil polyurethane liner will be placed, then covered with 1' of topsoil
- The remaining 3' of fill will be backfilled with caliche and contoured to meet the existing pad area

Groundwater will not be a concerning factor at this site. Once the above remediation plan is completed, then Spur Energy will begin reconstruction of the facility.

On behalf of Spur Energy Partners, the remainder of the contamination will be fully delineated and remediated by rule, once the site has been abandoned. A final closure report along with a site deferral will be submitted to the NMOCD for this release herein, shortly after the remediation is completed. This remediation will be done immediately upon approval of this workplan and production will commence after reconstruction has taken place.

Thank you for allowing ESS to assist you in this matter. Please contact me if you have any issues or concerns. My contact information is listed below.

Sincerely,

Natalie Gladden

Director of Environmental and Regulatory

adalii Grladden

ESS

#7 Compress Road Artesia, NM 88210 Cell: (575) 390-6397

Email: natalie@energystaffingllc.com

Attachments:

Initial C141

Ground Water Data and Map

OSE POD Map

Karst Map

Site Map

Soil Map and Information

Sample Data Log

Lab Analysis

Sample Map with GPS

Site Photos

C141 - Remediation/Deferral

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	NRH2002854238
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party SPUR ENERGY PARTNERS	OGRID 328947
Contact Name KENNY KIDD	Contact Telephone 575-616-5400
Contact email kkidd@spurepllc.com	Incident # (assigned by OCD)
Contact mailing address 919 MILAM STREET SUITE 2475 HOUSTON TEXAS 77002	

Location of Release Source

Latitude 32.6	5482239		Longitude (NAD 83 in a	decimal d	-104.4789658 legrees to 5 decimal places)	
Site Name R	OSS RANG	CH 22 BTY (CL	OSEST WELL#		Site Type OIL & GAS	
Date Release	Discovered	12-12-19			API# 30-015-27458	
Unit Letter	Section	Township	Range		County	
E	22	198	25E	EDDY		
					DY)
			Nature an	nd Vo	lume of Release	

ľ

Received by OCD: 9/30/2020 10:13:29 AM
TOTH C-141 State of New Mexico

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Oil Conservation Division

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Incident ID	NRH2002854238
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ☒ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible p	varty must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred
within a lined containmen	at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environn failed to adequately investigated.	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:NATA	LIE GLADDEN Title:ENVIRONMENTAL AND REGULATORY
DIRECTOR	
Signature:	lie Geladden Date: 12/23/19
email: _NGLADDEN@F	HUNGRY-HORSE.COM Telephone: _575-390-6397
OCD Only	
Received by: Cristina B	Eads Date: 02/06/2020
,	



Wells with Well Log Information

(R=POD has (A CLW#### in the POD suffix indicates the been replaced, POD has been replaced O=orphaned, C=the file is & no longer serves a

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

water right	closed)			(quarters	are smal	lest to	largest)	(NAD8	3 UTM in meters))			(in fe	et)	
		POD			qqq							Log File	Depth	Depth	License
POD Number	Code	Subbasin	County	Source	64164	Sec	Tws Rng	X	Y	Distance Start Date	Finish Date	Date	Well	Water Driller	Number
RA 03304		RA	ED	Shallow	1	27	19S 25E	549081	3610973*	308 10/13/1954	10/15/1954	11/22/1954	130	60 BEATTY, J.R.	62
<u>RA 08986</u>		RA	ED	Shallow	1 3 3	22	19S 25E	548825	3611507	342 05/15/1995	05/15/1995	05/17/1995	320	220 GLENN'S WATER WELL SERVICE	421
RA 02909		RA	ED	Shallow	1 3	22	19S 25E	548864	3611989*	823 06/26/1952	07/05/1952	08/11/1952	188	130 A.F. SMITH	

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 548840.11 **Northing (Y):** 3611165.59 Radius: 1000

*UTM location was derived from PLSS - see Help

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

WELLS WITH WELL LOG INFORMATION 9/30/20 7:35 AM



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

1 27 19S 25E

X

549081 3610973*

Driller License: 62

Drill Start Date:

Driller Company: BEATTY, J.R.

Driller Name:

BEATTY, J.R.

10/13/1954

7.00

RA 03304

Drill Finish Date:

10/15/1954

Plug Date:

Source: Shallow

Log File Date: **Pump Type:**

11/22/1954

PCW Rcv Date:

Estimated Yield:

118 Sandstone/Gravel/Conglomerate

Casing Size:

Pipe Discharge Size:

Depth Well:

130 feet

Depth Water:

60 feet

Water Bearing Stratifications:

Top Bottom Description

100 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

90 103

> 90 118

*UTM location was derived from PLSS - see Help

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



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

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

X

RA 08986

22 19S 25E

548825 3611507

Driller License: 421

Driller Company: GLENN'S WATER WELL SERVICE

Driller Name: GLENN'S WATER WELL SERVICE

Drill Start Date: 05/15/1995

Drill Finish Date:

05/15/1995

Plug Date:

Log File Date:

05/17/1995

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Shallow

Casing Size:

320 feet

Depth Water:

220 feet

Meter Number: 4314

Depth Well:

Meter Make:

Meter Type:

HALLIBURTON

Meter Serial Number: 2ST23206

Meter Multiplier:

1.0000 Diversion

Number of Dials: 6

Barrels 42 gal.

Return Flow Percent:

Reading Frequency: Quarterly (No Reading

Expected)

Meter Readings (in Acre-Feet)

Unit of Measure:

Usage Multiplier:

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount
01/01/2001	2000	160500	Α	PRT	0
03/01/2001	2000	180000	Α	RPT	2.513
12/31/2001	2001	180960	Α	RPT	0.124
04/01/2002	2002	180960	Α	RPT	0
06/30/2002	2002	180960	Α	RPT	0
09/30/2002	2002	180960	Α	RPT	0
04/01/2003	2003	180960	Α	RPT	0
08/15/2003	2003	180960	Α	tw	0
09/30/2003	2003	180960	Α	tw	0
12/31/2003	2003	180960	Α	tw	0
07/01/2004	2004	180960	Α	sj	0
10/01/2004	2004	180960	Α	sj	0
12/31/2004	2004	180960	Α	sj	0
09/30/2005	2005	180960	Α	RPT	0

**YTD Meter Amounts:	Year	Amount
	2000	2.513
	2001	0.124
	2002	0
	2003	0

**YTD Meter Amounts: Year Amount
2004 0

2005 0

Meter Number: 8259 Meter Make: HALIBURTON

Meter Serial Number:2 ST 23206Meter Multiplier:1.0000Number of Dials:6Meter Type:Diversion

Unit of Measure: Barrels 42 gal. Return Flow Percent:

Usage Multiplier: 0.00 Reading Frequency: Quarterly (No Reading

Expected)

Meter Readings (in Acre-Feet)

Read Date Year Mtr Reading Flag Rdr Comment Mtr Amount

10/01/2004 2004 180960 A sj 0

**YTD Meter Amounts: Year Amount

2004 0



Point of Diversion Summary

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

3 22 19S 25E

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

548864 3611989*

Driller License:

Driller Company:

Driller Name:

A.F. SMITH

Drill Start Date: 06/26/1952

RA 02909

Drill Finish Date:

07/05/1952

Plug Date:

Source:

Shallow

Log File Date:

08/11/1952

PCW Rcv Date:

Pipe Discharge Size:

Estimated Yield:

Pump Type: Casing Size:

8.63

Depth Well:

188 feet

Depth Water:

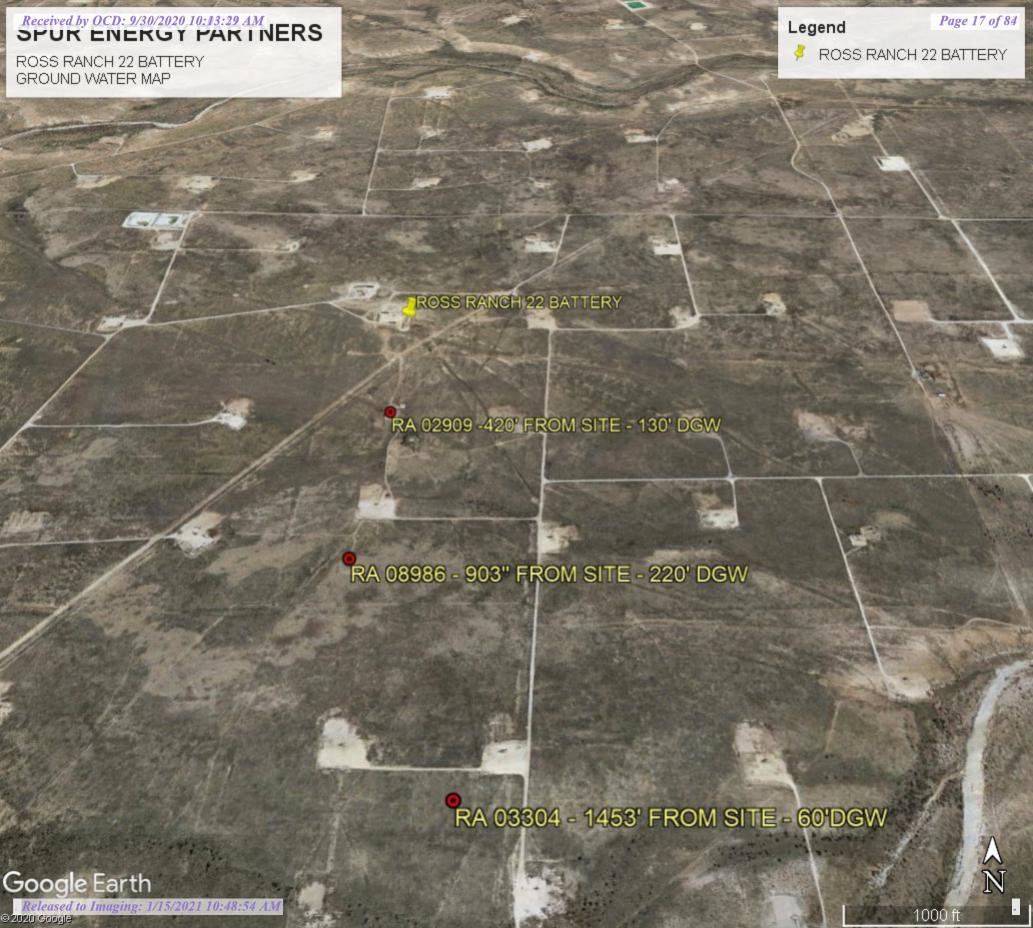
130 feet

Water Bearing Stratifications:

Top Bottom Description

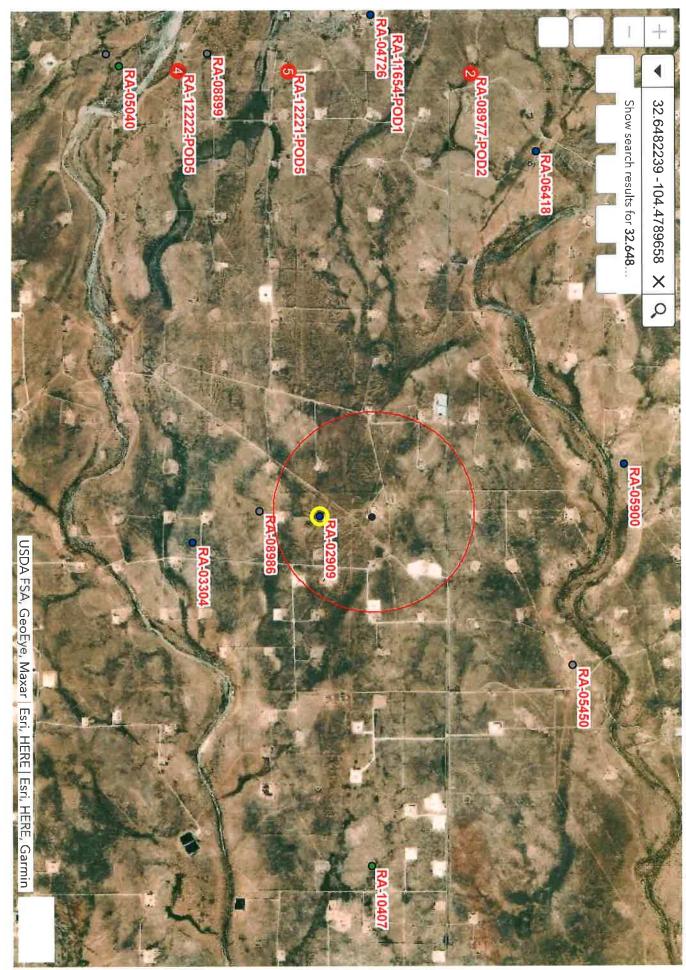
120

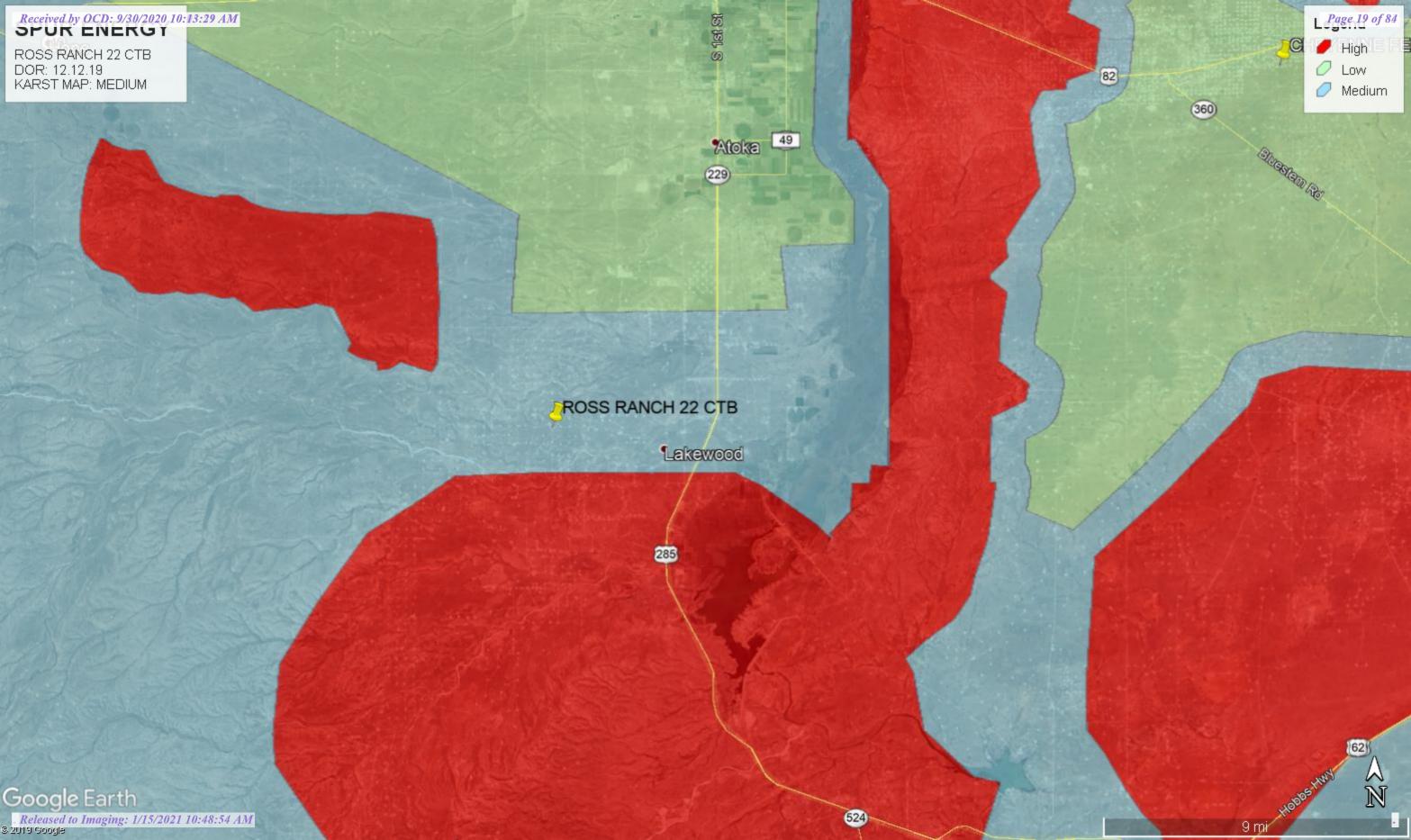
130 Sandstone/Gravel/Conglomerate



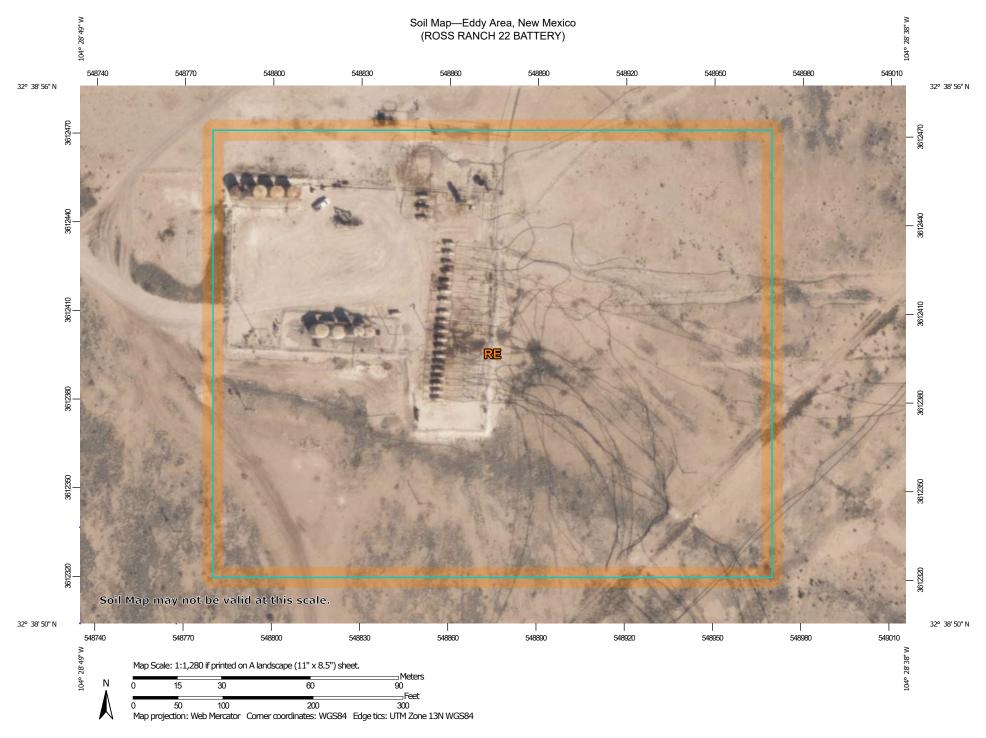
1:36111

0.6mi









Soil Map-Eddy Area, New Mexico (ROSS RANCH 22 BATTERY)

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



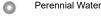
Marsh or swamp



Mine or Quarry



Miscellaneous Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip

Sodic Spot

â

Spoil Area



Very Stony Spot



Wet Spot Other

Stony Spot



Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28. 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RE	Reagan-Upton association, 0 to 9 percent slopes	7.1	100.0%
Totals for Area of Interest		7.1	100.0%

COMPANY - SPUR ENERGY PARTNERS LOCATION NAME ROSS RANCH 22 CTB RELEASE DATE ____12/12/19_____

SP ID	DEPTH	TITR	PID	L-CHL	L-BTEX	L-GRO	L- DRO	L-MRO	TTL TPH	Soil Type	NOTES
SP1	SURF	1200	TPH								
	1'	1360	TPH								
	2'	2400	TPH								
	3'	2000	TPH								
	4'	1200	TPH								
	5'	1200	TPH								
	6'	480									
	7'	400		1000	ND	ND	30.1	ND	30.1		
SP2	SURF	880	TPH								
	1'	800	TPH								
	2'	800	TPH								
	3'	800									
	4'	800		1430	ND	ND	192	89.7	281.7		TOO ROCKY TO DIG FURTHER
SP3	SURF	400	TPH								
	1'	800	TPH								
	2'	400	TPH								
	3'	400	TPH								
	4'	160	TPH								
	5'	1680	TPH								
	6'	2400	TPH								
	7'	2000	TPH	_							
	8'	560	TPH								
	9'	400	TPH								
	10'	400	TPH								
	11'	320	TPH								
	12'	160	TPH								
	13'	80									
	14'	80		83.6	0.101	ND	639	306	945		COULDN'T GO DEEPER W/AUGER
SP4	SURF	400	TPH								

	1	1	T			1	1		1		
	1'	3600	TPH								
	2'	2400	TPH								
	3'	800	TPH								
	4'	560									
	5'	320		1250	ND	ND	ND	ND	ND		
SP5	SURF	3280	TPH								
	1'	4400	TPH								
	2'	2480	TPH								
	3'	1680	TPH								
	4'	1200	TPH								
	5'	1200	TPH								
	6'	800	TPH								
	7'	400									
	8'	400		91	ND	ND	71.2	ND	71.2		
SP6	SURF	1680	TPH								
	1'	800	TPH								
	2'	800	TPH								
	3'	800	TPH								
	4'	800	TPH								
	5'	680	TPH								
	6'	480									
	7'	240		306	ND	ND	51.6	ND	51.6		
SP7	SURF	18,800	TPH								
	1'	760	TPH								
	2'	400	TPH								
	3'	400									
	4'	400		716	ND	ND	ND	ND	ND		
SP8	SURF	3200	TPH								
	1'	880	TPH								
	2'	560	TPH								

	1					ī	_			ī	
	3'	420	TPH								
	4'	240	TPH								
	5'	160	TPH								
	6'	80	TPH								
	7'	80	TPH								
	8'	80	TPH								
	9'	80	TPH								
	10'	80	TPH								
	11'	80									
	12'	80		157	ND	ND	80.8	ND	80.8		CAN'T GO DEEPER
SP9	SURF	1680	TPH								
	1'	800	TPH								
	2'	760	TPH								
	3'	560	TPH								
	4'	240	TPH								
	5'	160	TPH								
	6'	160	TPH								
	7'	160	TPH								
	8'	160	TPH								
	9'	160	TPH								
	10'	160	TPH								
	11'	160									
	12'	160		39.7	ND	ND	52.1	ND	ND		
SP10	SURF	760	TPH								
	1'	400	TPH								
	2'	360	TPH								
	3'	240									
	4'	240		52.3	ND	ND	44	ND	44		
SP11	SURF	760	TPH								
	1'	1200	TPH								
	2'	1280	TPH			T	T	1		T	

	T		I I				1	T .	ı	
	3'	960	TPH							
	4'	760	TPH							
	5'	480	TPH							
	6'	480	TPH							
	7'	400	TPH							
	8'	360	TPH							
	9'	360	TPH							
	10'	320	TPH							
	11'	160	TPH							
	12'	80		213	0.733	ND	402	178	580	Can't Go Deeper
SP12	SURF	3250	TPH							
	1'	2080	TPH							
	2'	4080	TPH							
	3'	880	TPH							
	4'	4000	TPH							
	5'	2960	TPH							
	6'	2000	TPH							
	7'	1680	TPH							
	8'	1480	TPH							
	9'	1200	TPH							
	10'	800	TPH							
	11'	7520								
	12'	240		410	ND	ND	39.2	ND	39.2	
SW 1	SURF	560	TPH							
	1'	480	TPH							
	2'	400	TPH	1070	ND	ND	11,900	8510	20,410	Buried Lines in Area
SW 2	SURF	360	TPH							
	1'	240	TPH							
	2'	240	TPH	ND	ND	ND	641	429	1070	
SW 3	SURF	560	TPH							

	1'	480	TPH							
			1711							
	2'	480		331	ND	ND	125	203	328	
SW 4	SURF	400	TPH							
	1'	160	TPH							
	2'	80		ND	ND	ND	147	91.2	238.2	
SW 5	SURF	320	TPH							
	1'	160	TPH							
	2'	80		ND	ND	ND	326	422	748	
SW 6	SURF	400	TPH							
	1'	320	TPH	·					·	
	2'	240		ND	ND	ND	96.2	103	199.2	



Analytical Report

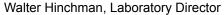
Report Summary

Client: Spur

Samples Received: 3/6/2020 Job Number: 19054-0003 Work Order: P003024

Project Name/Location: Ross Ranch Battery

Report Reviewed By:	Waltet Hinderson	Date:	3/10/20	
•				





Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported. Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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SpurProject Name:Ross Ranch BatteryPO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/10/20 15:39

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp3-14	P003024-01A	Soil	03/02/20	03/06/20	Glass Jar, 4 oz.
Sp1-7	P003024-02A	Soil	03/03/20	03/06/20	Glass Jar, 4 oz.
Sp2-4	P003024-03A	Soil	03/03/20	03/06/20	Glass Jar, 4 oz.
Sp4-5	P003024-04A	Soil	03/03/20	03/06/20	Glass Jar, 4 oz.
Sp5-8	P003024-05A	Soil	03/03/20	03/06/20	Glass Jar, 4 oz.

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/10/20 15:39

Sp3-14 P003024-01 (Solid)

			24-01 (So	lid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
p,m-Xylene	0.0692	0.0500	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
o-Xylene	0.0320	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
Total Xylenes	0.101	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %	50-	-150	2010030	03/06/20	03/06/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DR	O/ORO								
Diesel Range Organics (C10-C28)	639	50.0	mg/kg	2	2010018	03/06/20	03/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	306	100	mg/kg	2	2010018	03/06/20	03/10/20	EPA 8015D	
Surrogate: n-Nonane		113 %	50-	-200	2010018	03/06/20	03/10/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GR	0								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	50-	-150	2010030	03/06/20	03/06/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	83.6	20.0	mg/kg	1	2010036	03/06/20	03/09/20	EPA 300.0/9056A	

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/10/20 15:39

Sp1-7 P003024-02 (Solid)

P003024-02 (Solid)										
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		107 %	50-	150	2010030	03/06/20	03/06/20	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/O	RO									
Diesel Range Organics (C10-C28)	30.1	25.0	mg/kg	1	2010018	03/06/20	03/10/20	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010018	03/06/20	03/10/20	EPA 8015D		
Surrogate: n-Nonane		85.4 %	50	200	2010018	03/06/20	03/10/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %	50-	150	2010030	03/06/20	03/06/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	1000	20.0	mg/kg	1	2010036	03/06/20	03/09/20	EPA 300.0/9056A		

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/10/20 15:39

Sp2-4 P003024-03 (Solid)

		P0030	24-03 (801	ia)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %	50-1	150	2010030	03/06/20	03/07/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/Ol	RO								
Diesel Range Organics (C10-C28)	192	25.0	mg/kg	1	2010018	03/06/20	03/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	89.7	50.0	mg/kg	1	2010018	03/06/20	03/10/20	EPA 8015D	
Surrogate: n-Nonane		84.9 %	50-2	200	2010018	03/06/20	03/10/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.5 %	50-1	150	2010030	03/06/20	03/07/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1430	20.0	mg/kg	1	2010036	03/06/20	03/09/20	EPA 300.0/9056A	

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Sp4-5 P003024-04 (Solid)

P003024-04 (Solid)										
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-	150	2010030	03/06/20	03/07/20	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/O	RO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2010018	03/06/20	03/10/20	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010018	03/06/20	03/10/20	EPA 8015D		
Surrogate: n-Nonane		87.0 %	50-2	200	2010018	03/06/20	03/10/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	50-	150	2010030	03/06/20	03/07/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	1250	20.0	mg/kg	1	2010036	03/06/20	03/09/20	EPA 300.0/9056A		

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/10/20 15:39

Sp5-8 P003024-05 (Solid)

P003024-05 (Solid)										
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		108 %	50-	150	2010030	03/06/20	03/07/20	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/O	ORO									
Diesel Range Organics (C10-C28)	71.2	25.0	mg/kg	1	2010018	03/06/20	03/10/20	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2010018	03/06/20	03/10/20	EPA 8015D		
Surrogate: n-Nonane		93.2 %	50-2	200	2010018	03/06/20	03/10/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2010030	03/06/20	03/07/20	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	50-	150	2010030	03/06/20	03/07/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	921	20.0	mg/kg	1	2010036	03/06/20	03/09/20	EPA 300.0/9056A		

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PO Box 1058 Project Number: 19054-0003 Reported: Hobbs NM, 88240 Project Manager: Lindsey Salgado 03/10/20 15:39

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2010030 - Purge and Trap EPA 5030A										
Blank (2010030-BLK1)				Prepared: (03/06/20 0 A	Analyzed: 0	03/06/20 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
o,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.32		"	8.00		104	50-150			
LCS (2010030-BS1)				Prepared: (03/06/20 0 A	Analyzed: 0	03/06/20 1			
Benzene	4.74	0.0250	mg/kg	5.00		94.7	70-130			
Toluene	4.74	0.0250	"	5.00		94.9	70-130			
Ethylbenzene	4.72	0.0250	"	5.00		94.5	70-130			
p,m-Xylene	9.45	0.0500	"	10.0		94.5	70-130			
o-Xylene	4.78	0.0250	"	5.00		95.5	70-130			
Total Xylenes	14.2	0.0250	"	15.0		94.9	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.56		"	8.00		107	50-150			
Matrix Spike (2010030-MS1)	Sour	ce: P003020-	01	Prepared: (03/06/20 0 A	Analyzed: 0				
Benzene	4.44	0.0250	mg/kg	5.00	0.0901	86.9	54.3-133			
Toluene	5.15	0.0250	"	5.00	0.373	95.4	61.4-130			
Ethylbenzene	6.13	0.0250	"	5.00	1.08	101	61.4-133			
p,m-Xylene	15.9	0.0500	"	10.0	4.96	110	63.3-131			
o-Xylene	7.66	0.0250	"	5.00	1.97	114	63.3-131			
Total Xylenes	23.6	0.0250	"	15.0	6.93	111	0-200			
Surrogate: 4-Bromochlorobenzene-PID	9.53		"	8.00		119	50-150			
Matrix Spike Dup (2010030-MSD1)	Sour	ce: P003020-	01	Prepared: (03/06/20 0 A	Analyzed: 0	03/06/20 1			
Benzene	4.50	0.0250	mg/kg	5.00	0.0901	88.2	54.3-133	1.45	20	
Toluene	5.29	0.0250	"	5.00	0.373	98.4	61.4-130	2.80	20	
Ethylbenzene	6.39	0.0250	"	5.00	1.08	106	61.4-133	4.14	20	
p,m-Xylene	17.0	0.0500	"	10.0	4.96	121	63.3-131	6.65	20	
o-Xylene	8.18	0.0250	"	5.00	1.97	124	63.3-131	6.58	20	
Total Xylenes	25.2	0.0250	"	15.0	6.93	122	0-200	6.63	200	
Surrogate: 4-Bromochlorobenzene-PID	9.53		"	8.00		119	50-150			

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 PO Box 1058
 Project Number:
 19054-0003
 Reported:

 Hobbs NM, 88240
 Project Manager:
 Lindsey Salgado
 03/10/20 15:39

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
,										
Batch 2010018 - DRO Extraction EPA 3570										
Blank (2010018-BLK1)				Prepared: (03/04/20 1 A	Analyzed: 0	3/10/20 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	48.0		"	50.0		96.0	50-200			
LCS (2010018-BS1)				Prepared: (03/04/20 1 A	Analyzed: 0	3/10/20 1			
Diesel Range Organics (C10-C28)	429	25.0	mg/kg	500		85.8	38-132			
Surrogate: n-Nonane	48.2		"	50.0		96.4	50-200			
Matrix Spike (2010018-MS1)	Sour	rce: P003016-	01	Prepared: (03/04/20 1 A	Analyzed: 0	3/10/20 1			
Diesel Range Organics (C10-C28)	1670	250	mg/kg	500	1060	122	38-132			
Surrogate: n-Nonane	55.1		"	50.0		110	50-200			
Matrix Spike Dup (2010018-MSD1)	Sour	rce: P003016-	01	Prepared: (03/04/20 1 A	Analyzed: 0	3/10/20 1			
Diesel Range Organics (C10-C28)	1610	250	mg/kg	500	1060	111	38-132	3.43	20	
Surrogate: n-Nonane	54.9		"	50.0		110	50-200			

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Analyta

Spur Project Name: Ross Ranch Battery

Pocult

 PO Box 1058
 Project Number:
 19054-0003
 Reported:

 Hobbs NM, 88240
 Project Manager:
 Lindsey Salgado
 03/10/20 15:39

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Unite

Spike

Laval

Source

Pocult

%PEC

%REC

Limite

DDD

RPD

Limit

Reporting

Limit

Analyte	Resuit	Limit	Units	Level	Resuit	%REC	Limits	KPD	Limit	Notes
Batch 2010030 - Purge and Trap EPA 5030A										
Blank (2010030-BLK1)				Prepared: (03/06/20 0	Analyzed: (03/06/20 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		"	8.00		94.6	50-150			
LCS (2010030-BS2)				Prepared: (03/06/20 0	Analyzed: (03/06/20 1			
Gasoline Range Organics (C6-C10)	47.3	20.0	mg/kg	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		"	8.00		94.7	50-150			
Matrix Spike (2010030-MS2)	Sourc	e: P003020-	01	Prepared: (03/06/20 0	Analyzed: (03/06/20 1			
Gasoline Range Organics (C6-C10)	215	20.0	mg/kg	50.0	121	189	70-130			M2
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.85		"	8.00		111	50-150			
Matrix Spike Dup (2010030-MSD2)	Sourc	e: P003020-	01	Prepared: (03/06/20 0	Analyzed: (03/06/20 2			
Gasoline Range Organics (C6-C10)	234	20.0	mg/kg	50.0	121	227	70-130	8.30	20	M2
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.88		"	8.00		111	50-150			

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 Reported:

 Hobbs NM, 88240
 Project Manager:
 Lindsey Salgado
 03/10/20 15:39

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

RPD

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2010036 - Anion Extraction EPA 300.0	/9056A									
Blank (2010036-BLK1)				Prepared: (03/06/20 1 A	Analyzed: 0	3/09/20 1			
Chloride	ND	20.0	mg/kg							
LCS (2010036-BS1)				Prepared: (03/06/20 1 A	Analyzed: 0	3/09/20 1			
Chloride	251	20.0	mg/kg	250		100	90-110			
Matrix Spike (2010036-MS1)	Sourc	e: P003021-	01	Prepared: (03/06/20 1 A	Analyzed: 0	3/09/20 1			
Chloride	609	20.0	mg/kg	250	362	98.6	80-120			
Matrix Spike Dup (2010036-MSD1)	Sourc	e: P003021-	01	Prepared: (03/06/20 1 A	Analyzed: 0	3/09/20 1			
Chloride	627	20.0	mg/kg	250	362	106	80-120	2.88	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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 Reported:

 Hobbs NM, 88240
 Project Manager:
 Lindsey Salgado
 03/10/20 15:39

Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page	of
ugc	

Received by OCD: 9/30/2020 10:13:29 AM

Client: SVU (Bill To	- AG			La	b Us	e Only			Т	AT	F	PA Progra	m
Project: 13055 Ranch Battery	Attention: Natile Gladdl	<u> </u>	Lab	WO#			Job Ni	ımbe	r	1D		RCRA	CWA	SDWA
Project Manager: LINDSPLY Salgado	Address:		Po	030	24				003		X			
Address:	City, State, Zip						Analysi	s and	Method	1			Sta	
City, State, Zip	Phone:	<u> </u>										110	NM CO	UT AZ
Phone:	Email: Naladdous hungry-	00000	A 210	015								1		
Email: Salvalos nurguy - noval COM)			by 8	by 8	121	09	0	0.0		Σ			TX OK	
Report due by:		I and a second	ORO	ORO	oy 80	/ 82	601	Je 30		z	Ĭ.		3656	
Time Date Sampled Sampled Matrix No Containers Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC - NM	BGDOC		Rem	arks
3:al 3/2/20 5 1 Sp3-14		1							100	V			1-4029	lessjer
10/a7 3/3/au \ \ 501-7		2								1				
9:073/3/20) 502-4		3												
11.51 3/2/20 \ 504-5		4								5				
2:35 3/2/20 (505-8		5								(1	
			-											
Additional Instructions:											!			
, (field sampler), attest to the validity and authenticity of this sample. I am aware tha time of collection is considered fraud and may be grounds for legal action. Sampled b		ation, date or		1/2									day they are sam subsequent days.	pled or
Relinquished by: (Signature) Date Time	Received by: (Signature)	Date 2/2		Time	30		Receiv	ed or	ice:		b Use	Only		
Relinquished by: (Signature) Date 15120 Time 1415	Received by (Signature)	3.5-20	1	Time	45		T1			T2			T3	
Relinquished by: (signature) 3.5.2020 ILei	Received by: (Signature)	Date 3-6-20		Time			AVG T	emp °	°c_4.0	ic				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container	Type								s. v - \	/OA		
Note: Samples are discarded 30 days after results are reported unless other	arrangements are made. Hazardous samples will be r	eturned to clie	ent or o	disposed	d of at	the cli	ent expe	nse. Th	ne report	for the	analys	s of the abo	ve samples is	applicable
only to those samples received by the laboratory with this COC. The liabilit	y of the laboratory is limited to the amount paid for o	n the report.											59	section 8





Analytical Report

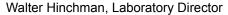
Report Summary

Client: Spur

Samples Received: 3/9/2020 Job Number: 19054-0003 Work Order: P003038

Project Name/Location: Ross Ranch

Report Reviewed By:	Walter Homemon	Date:	3/11/20	





Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported. Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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SpurProject Name:Ross RanchPO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Natalie Gladden03/11/20 16:02

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp7-4	P003038-01A	Soil	03/05/20	03/09/20	Glass Jar, 4 oz.
Sp8-12	P003038-02A	Soil	03/05/20	03/09/20	Glass Jar, 4 oz.
Sp9-12	P003038-03A	Soil	03/05/20	03/09/20	Glass Jar, 4 oz.
Sp10-4	P003038-04A	Soil	03/05/20	03/09/20	Glass Jar, 4 oz.

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Reported:

03/11/20 16:02



SpurProject Name:Ross RanchPO Box 1058Project Number:19054-0003

PO Box 1058 Project Number: 19054-0003
Hobbs NM, 88240 Project Manager: Natalie Gladden

Sp7-4 P003038-01 (Solid)

		P0030	38-01 (Soli	a)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-1:	50	2011005	03/09/20	03/10/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011008	03/09/20	03/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011008	03/09/20	03/10/20	EPA 8015D	
Surrogate: n-Nonane		101 %	50-20	00	2011008	03/09/20	03/10/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.5 %	50-1:	50	2011005	03/09/20	03/10/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	716	40.0	mg/kg	2	2011012	03/10/20	03/10/20	EPA 300.0/9056A	

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Reported: 03/11/20 16:02



Spur Project Name: Ross Ranch

PO Box 1058 Project Number: 19054-0003
Hobbs NM, 88240 Project Manager: Natalie Gladden

Sp8-12 P003038-02 (Solid)

		P0030	38-02 (S011a)						
		Reporting				·			
Analyte	Result	Limit	Units D	ilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1		2011005	03/09/20	03/10/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		2011005	03/09/20	03/10/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		2011005	03/09/20	03/10/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		2011005	03/09/20	03/10/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		2011005	03/09/20	03/10/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		2011005	03/09/20	03/10/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %	50-150		2011005	03/09/20	03/10/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	O/ORO								
Diesel Range Organics (C10-C28)	80.8	25.0	mg/kg 1		2011008	03/09/20	03/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		2011008	03/09/20	03/10/20	EPA 8015D	
Surrogate: n-Nonane		92.4 %	50-200		2011008	03/09/20	03/10/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		2011005	03/09/20	03/10/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.5 %	50-150		2011005	03/09/20	03/10/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	157	20.0	mg/kg 1		2011012	03/10/20	03/10/20	EPA 300.0/9056A	

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Spur Project Name: Ross Ranch

PO Box 1058 Project Number: 19054-0003
Hobbs NM, 88240 Project Manager: Natalie Gladden

Reported: 03/11/20 16:02

Sp9-12 P003038-03 (Solid)

		1 0030	30-03 (3011	u)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-1.	50	2011005	03/09/20	03/10/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	ORO								
Diesel Range Organics (C10-C28)	52.1	25.0	mg/kg	1	2011008	03/09/20	03/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011008	03/09/20	03/10/20	EPA 8015D	
Surrogate: n-Nonane		93.9 %	50-20	00	2011008	03/09/20	03/10/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.3 %	50-1.	50	2011005	03/09/20	03/10/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	39.7	20.0	mg/kg	1	2011012	03/10/20	03/10/20	EPA 300.0/9056A	

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SpurProject Name:Ross RanchPO Box 1058Project Number:19054-0003

Hobbs NM, 88240 Project Manager: Natalie Gladden

Reported: 03/11/20 16:02

Sp10-4 P003038-04 (Solid)

		1 0030	30-04 (3011	u)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-15	50	2011005	03/09/20	03/10/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	/ORO								
Diesel Range Organics (C10-C28)	44.0	25.0	mg/kg	1	2011008	03/09/20	03/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011008	03/09/20	03/10/20	EPA 8015D	
Surrogate: n-Nonane		81.3 %	50-20	00	2011008	03/09/20	03/10/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	50-15	50	2011005	03/09/20	03/10/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	52.3	20.0	mg/kg	1	2011012	03/10/20	03/10/20	EPA 300.0/9056A	

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SpurProject Name:Ross RanchPO Box 1058Project Number:19054-0003

Hobbs NM, 88240 Project Manager: Natalie Gladden

Reported: 03/11/20 16:02

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2011005 - Purge and Trap EPA 5030A										
Blank (2011005-BLK1)				Prepared: (03/09/20 1 A	Analyzed: 0	3/09/20 2			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.49		"	8.00		106	50-150			
LCS (2011005-BS1)				Prepared: (03/09/20 1 A	Analyzed: 0	3/09/20 2			
Benzene	5.04	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.12	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.13	0.0250	"	5.00		103	70-130			
p,m-Xylene	10.2	0.0500	"	10.0		102	70-130			
o-Xylene	5.18	0.0250	"	5.00		104	70-130			
Total Xylenes	15.4	0.0250	"	15.0		103	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.57		"	8.00		107	50-150			
Matrix Spike (2011005-MS1)	Sou	rce: P003036-	01	Prepared: (03/09/20 1 A	Analyzed: 0	3/10/20 0			
Benzene	4.90	0.0250	mg/kg	5.00	ND	98.0	54.3-133			
Toluene	4.99	0.0250	"	5.00	ND	99.9	61.4-130			
Ethylbenzene	5.02	0.0250	"	5.00	ND	100	61.4-133			
p,m-Xylene	10.0	0.0500	"	10.0	0.0526	99.8	63.3-131			
o-Xylene	5.06	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.1	0.0250	"	15.0	0.0526	100	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.61		"	8.00		108	50-150			
Matrix Spike Dup (2011005-MSD1)	Sou	rce: P003036-	01	Prepared: (03/09/20 1 A	Analyzed: 0	3/10/20 0			
Benzene	4.89	0.0250	mg/kg	5.00	ND	97.8	54.3-133	0.193	20	
Toluene	4.95	0.0250	"	5.00	ND	99.0	61.4-130	0.905	20	
Ethylbenzene	4.98	0.0250	"	5.00	ND	99.5	61.4-133	0.878	20	
p,m-Xylene	9.94	0.0500	"	10.0	0.0526	98.9	63.3-131	0.850	20	
o-Xylene	5.05	0.0250	"	5.00	ND	101	63.3-131	0.238	20	
Total Xylenes	15.0	0.0250	"	15.0	0.0526	99.6	0-200	0.645	200	
Surrogate: 4-Bromochlorobenzene-PID	8.57		"	8.00		107	50-150			

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Ph (505) 632-0615 Fx (505) 632-1865

Spur Project Name: Ross Ranch

PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Natalie Gladden03/11/20 16:02

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 2011008 - DRO Extraction EPA 3570											
Blank (2011008-BLK1)	08-BLK1) Prepared: 03/09/20 1 Analyzed: 03/10/20 0										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg								
Oil Range Organics (C28-C40)	ND	50.0	"								
Surrogate: n-Nonane	45.1		"	50.0		90.3	50-200				
LCS (2011008-BS1)	Prepared: 03/09/20 1 Analyzed: 03/10/20 0										
Diesel Range Organics (C10-C28)	419	25.0	mg/kg	500		83.7	38-132				
Surrogate: n-Nonane	45.4		"	50.0		90.9	50-200				
Matrix Spike (2011008-MS1)	Sour	ce: P003034-	01	Prepared: (03/09/20 1 A	Analyzed: 0	3/10/20 0				
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500	ND	104	38-132				
Surrogate: n-Nonane	47.6		"	50.0		95.2	50-200				
Matrix Spike Dup (2011008-MSD1)	Sour	rce: P003034-	01	Prepared: (03/09/20 1 A	Analyzed: 0	3/10/20 0				
Diesel Range Organics (C10-C28)	513	25.0	mg/kg	500	ND	103	38-132	1.74	20		
Surrogate: n-Nonane	49.3		"	50.0		98.7	50-200				

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Spur Project Name: Ross Ranch

PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Natalie Gladden03/11/20 16:02

Reporting

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

RPD

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2011005 - Purge and Trap EPA 5030A										
Blank (2011005-BLK1)				Prepared: (03/09/20 1	Analyzed: 0	3/09/20 2			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		"	8.00		92.4	50-150			
LCS (2011005-BS2)	3/09/20 2									
Gasoline Range Organics (C6-C10)	46.5	20.0	mg/kg	50.0		93.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		"	8.00		94.9	50-150			
Matrix Spike (2011005-MS2)	Source	e: P003036-	01	Prepared: (03/09/20 1	Analyzed: 0	3/10/20 0			
Gasoline Range Organics (C6-C10)	51.2	20.0	mg/kg	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		"	8.00		95.2	50-150			
Matrix Spike Dup (2011005-MSD2)	Source	e: P003036-	01	Prepared: (3/10/20 0					
Gasoline Range Organics (C6-C10)	50.0	20.0	mg/kg	50.0	ND	100	70-130	2.49	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		"	8.00		94.0	50-150			

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SpurProject Name:Ross RanchPO Box 1058Project Number:19054-0003

Hobbs NM, 88240 Project Number: 19054-0003
Project Manager: Natalie Gladden

Reported: 03/11/20 16:02

RPD

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 2011012 - Anion Extraction EPA 300.0/9056A												
Blank (2011012-BLK1) Prepared: 03/10/20 0 Analyzed: 03/10/20 1												
Chloride	ND	20.0	mg/kg									
LCS (2011012-BS1)				Prepared: (03/10/20 0	Analyzed: 0	3/10/20 1					
Chloride	253	20.0	mg/kg	250		101	90-110					
Matrix Spike (2011012-MS1)	Source	: P003038-	01	Prepared: (03/10/20 0	Analyzed: 0	3/10/20 1					
Chloride	981	40.0	mg/kg	250	716	106	80-120					
Matrix Spike Dup (2011012-MSD1)	Source	: P003038-	01	Prepared: 03/10/20 0 Analyzed: 03/10/20 1								
Chloride	985	40.0	mg/kg	250	716	108	80-120	0.435	20			

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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SpurProject Name:Ross RanchPO Box 1058Project Number:19054-0003

PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Natalie Gladden03/11/20 16:02

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Page 11 of 12

	Project Information
[Client: 500
١	Project: RAS
	Project Manager:

Chain of Custody

	1
Page	of /
rage	01

Received by OCD: 9/30/2020 10:13:29 AM

Page 53 of 84

Client:	SDU	17				Bill To Attention: Watau Gladd	72.7	19.53		La	b Us	e On	ly			TAT	E	PA Progra	ım
Project:	ROS		ancl			Attention: Watalu Gladdu	211	Lab	WO#			Job I	Vuml	oer	1D	3D	RCRA	CWA	SDWA
	Manager:	cu dis	see)	alex		Address:		PC	030	38		190	54-	-0003		>	1		
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City, Stat	e, Zip					Phone:	1											NM CO	UT AZ
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Report d	ue by:							RO	RO	y 80	, 826	601	le 30		Ž	×			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID		5.05	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC - NM	BGDOC-		Rem	narks
9:18	3/420	5	i	507	-4		1								4	2			
11/140	3/5/20		5	508.	12		2								1				
2:23	3/5/20			509-	12		3								(
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Addition	al Instruct	tions:		•												-		1	
						mpering with or intentionally mislabelling the sample loc	ation, date or											e day they are san subsequent days.	
	ed by: (Signa		Date	6/20 1	ime	Received by: (Signature) Received by: (Signature) Received by: (Signature)	Date 3-6-	202	Time	121	5	Dogo	ivad	on loos	L	ab U	se Only		
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Relinquish	ed by: (Signa	ture)	Date	T	ime	Received by: (Signature)	Date	<u> </u>	Time	<i></i>				p °C	<u>T2</u>			<u>T3</u>	
		6 N · -		180 00 10			0 1												
				queous, 0 - Oth		—	Container												
						angements are made. Hazardous samples will be f the laboratory is limited to the amount paid for o		ent or	uisposei	u of at	tne cl	iient ex	pense.	the repo	rt for th	e anal	rsis of the ab	ove samples is	applicable





Analytical Report

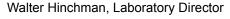
Report Summary

Client: Spur

Samples Received: 3/11/2020 Job Number: 19054-0003 Work Order: P003056

Project Name/Location: Ross Ranch Battery

Report Reviewed By:	Walter Hinkman	Date:	3/13/20	
-				





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PO Box 1058 Project Number: 19054-0003 Reported: Hobbs NM, 88240 Project Manager: Lindsey Salgado 03/13/20 15:05

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp11-12'	P003056-01A	Soil	03/06/20	03/11/20	Glass Jar, 4 oz.
Sp12-12	P003056-02A	Soil	03/06/20	03/11/20	Glass Jar, 4 oz.
SW1-2	P003056-03A	Soil	03/06/20	03/11/20	Glass Jar, 4 oz.
SW2-2'	P003056-04A	Soil	03/06/20	03/11/20	Glass Jar, 4 oz.
SW3-2'	P003056-05A	Soil	03/06/20	03/11/20	Glass Jar, 4 oz.
SW4-2	P003056-06A	Soil	03/06/20	03/11/20	Glass Jar, 4 oz.
SW5-2	P003056-07A	Soil	03/06/20	03/11/20	Glass Jar, 4 oz.
SW6-2	P003056-08A	Soil	03/06/20	03/11/20	Glass Jar, 4 oz.
SP6-7	P003056-09A	Soil	03/06/20	03/11/20	Glass Jar, 4 oz.

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/13/20 15:05

Sp11-12' P003056-01 (Solid)

		1 0030	30-01 (30	iiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Toluene	0.0668	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Ethylbenzene	0.219	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
p,m-Xylene	0.425	0.0500	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
o-Xylene	0.308	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Total Xylenes	0.733	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %	50-	150	2011027	03/11/20	03/13/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DR	O/ORO								
Diesel Range Organics (C10-C28)	402	50.0	mg/kg	2	2011035	03/12/20	03/13/20	EPA 8015D	
Oil Range Organics (C28-C40)	178	100	mg/kg	2	2011035	03/12/20	03/13/20	EPA 8015D	
Surrogate: n-Nonane		104 %	50-	200	2011035	03/12/20	03/13/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GR	0								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.0 %	50-	150	2011027	03/11/20	03/13/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	213	20.0	mg/kg	1	2011020	03/11/20	03/12/20	EPA 300.0/9056A	

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/13/20 15:05

Sp12-12 P003056-02 (Solid)

		P0030	50-02 (50)	iiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	150	2011027	03/11/20	03/13/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	RO								
Diesel Range Organics (C10-C28)	39.2	25.0	mg/kg	1	2011035	03/12/20	03/13/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011035	03/12/20	03/13/20	EPA 8015D	
Surrogate: n-Nonane		87.6 %	50-2	200	2011035	03/12/20	03/13/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.9 %	50-	150	2011027	03/11/20	03/13/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	410	20.0	mg/kg	1	2011020	03/11/20	03/12/20	EPA 300.0/9056A	

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/13/20 15:05

SW1-2 P003056-03 (Solid)

		1 0030	30-03 (301	iu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-1	150	2011027	03/11/20	03/13/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	D/ORO								
Diesel Range Organics (C10-C28)	11900	2500	mg/kg	100	2011035	03/12/20	03/13/20	EPA 8015D	
Oil Range Organics (C28-C40)	8510	5000	mg/kg	100	2011035	03/12/20	03/13/20	EPA 8015D	
Surrogate: n-Nonane		%	50-2	200	2011035	03/12/20	03/13/20	EPA 8015D	S6
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.7 %	50-1	150	2011027	03/11/20	03/13/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1070	20.0	mg/kg	1	2011020	03/11/20	03/12/20	EPA 300.0/9056A	

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/13/20 15:05

SW2-2' P003056-04 (Solid)

		1 0050	30-0 1 (301	iuj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-1	150	2011027	03/11/20	03/13/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	641	125	mg/kg	5	2011035	03/12/20	03/13/20	EPA 8015D	
Oil Range Organics (C28-C40)	429	250	mg/kg	5	2011035	03/12/20	03/13/20	EPA 8015D	
Surrogate: n-Nonane		98.8 %	50-2	200	2011035	03/12/20	03/13/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.9 %	50-1	150	2011027	03/11/20	03/13/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2011020	03/11/20	03/12/20	EPA 300.0/9056A	

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/13/20 15:05

SW3-2' P003056-05 (Solid)

P003050-05 (S0IId)											
		Reporting							·		
Analyte	Result	Limit	Units 1	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Volatile Organics by EPA 8021											
Benzene	ND	0.0250	mg/kg 1		2011027	03/11/20	03/13/20	EPA 8021B			
Toluene	ND	0.0250	mg/kg 1		2011027	03/11/20	03/13/20	EPA 8021B			
Ethylbenzene	ND	0.0250	mg/kg 1		2011027	03/11/20	03/13/20	EPA 8021B			
p,m-Xylene	ND	0.0500	mg/kg 1		2011027	03/11/20	03/13/20	EPA 8021B			
o-Xylene	ND	0.0250	mg/kg 1		2011027	03/11/20	03/13/20	EPA 8021B			
Total Xylenes	ND	0.0250	mg/kg 1		2011027	03/11/20	03/13/20	EPA 8021B			
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-150)	2011027	03/11/20	03/13/20	EPA 8021B			
Nonhalogenated Organics by 8015 - DRO/O	RO										
Diesel Range Organics (C10-C28)	125	25.0	mg/kg 1		2011035	03/12/20	03/13/20	EPA 8015D			
Oil Range Organics (C28-C40)	203	50.0	mg/kg 1		2011035	03/12/20	03/13/20	EPA 8015D			
Surrogate: n-Nonane		94.9 %	50-200)	2011035	03/12/20	03/13/20	EPA 8015D			
Nonhalogenated Organics by 8015 - GRO											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		2011027	03/11/20	03/13/20	EPA 8015D			
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.0 %	50-150)	2011027	03/11/20	03/13/20	EPA 8015D			
Anions by 300.0/9056A											
Chloride	331	20.0	mg/kg 1		2011020	03/11/20	03/12/20	EPA 300.0/9056A			

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/13/20 15:05

SW4-2 P003056-06 (Solid)

	P003050-00 (S0IId)												
		Reporting											
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes				
Volatile Organics by EPA 8021													
Benzene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B					
Toluene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B					
Ethylbenzene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B					
p,m-Xylene	ND	0.0500	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B					
o-Xylene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B					
Total Xylenes	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B					
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	150	2011027	03/11/20	03/13/20	EPA 8021B					
Nonhalogenated Organics by 8015 - DRO/Ol	RO												
Diesel Range Organics (C10-C28)	147	25.0	mg/kg	1	2011035	03/12/20	03/13/20	EPA 8015D					
Oil Range Organics (C28-C40)	91.2	50.0	mg/kg	1	2011035	03/12/20	03/13/20	EPA 8015D					
Surrogate: n-Nonane		86.3 %	50-	200	2011035	03/12/20	03/13/20	EPA 8015D					
Nonhalogenated Organics by 8015 - GRO													
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8015D					
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.5 %	50-	150	2011027	03/11/20	03/13/20	EPA 8015D					
Anions by 300.0/9056A													
Chloride	ND	20.0	mg/kg	1	2011020	03/11/20	03/12/20	EPA 300.0/9056A					

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 PO Box 1058
 Project Number:
 19054-0003
 Reported:

 Hobbs NM, 88240
 Project Manager:
 Lindsey Salgado
 03/13/20 15:05

SW5-2 P003056-07 (Solid)

		1 0030	30-07 (30)	iiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	150	2011027	03/11/20	03/13/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	O/ORO								
Diesel Range Organics (C10-C28)	326	125	mg/kg	5	2011035	03/12/20	03/13/20	EPA 8015D	
Oil Range Organics (C28-C40)	422	250	mg/kg	5	2011035	03/12/20	03/13/20	EPA 8015D	
Surrogate: n-Nonane		102 %	50-2	200	2011035	03/12/20	03/13/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	50	150	2011027	03/11/20	03/13/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2011020	03/11/20	03/12/20	EPA 300.0/9056A	

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/13/20 15:05

SW6-2 P003056-08 (Solid)

P003050-08 (S0IId)											
		Reporting						·			
Analyte	Result	Limit	Units D	ilution Batch	Prepared	Analyzed	Method	Notes			
Volatile Organics by EPA 8021											
Benzene	ND	0.0250	mg/kg 1	2011027	03/11/20	03/13/20	EPA 8021B				
Toluene	ND	0.0250	mg/kg 1	2011027	03/11/20	03/13/20	EPA 8021B				
Ethylbenzene	ND	0.0250	mg/kg 1	2011027	03/11/20	03/13/20	EPA 8021B				
p,m-Xylene	ND	0.0500	mg/kg 1	2011027	03/11/20	03/13/20	EPA 8021B				
o-Xylene	ND	0.0250	mg/kg 1	2011027	03/11/20	03/13/20	EPA 8021B				
Total Xylenes	ND	0.0250	mg/kg 1	2011027	03/11/20	03/13/20	EPA 8021B				
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-150	2011027	03/11/20	03/13/20	EPA 8021B				
Nonhalogenated Organics by 8015 - DRO/O	ORO										
Diesel Range Organics (C10-C28)	96.2	25.0	mg/kg 1	2011035	03/12/20	03/13/20	EPA 8015D				
Oil Range Organics (C28-C40)	103	50.0	mg/kg 1	2011035	03/12/20	03/13/20	EPA 8015D				
Surrogate: n-Nonane		100 %	50-200	2011035	03/12/20	03/13/20	EPA 8015D				
Nonhalogenated Organics by 8015 - GRO											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2011027	03/11/20	03/13/20	EPA 8015D				
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.7 %	50-150	2011027	03/11/20	03/13/20	EPA 8015D				
Anions by 300.0/9056A											
Chloride	ND	20.0	mg/kg 1	2011020	03/11/20	03/12/20	EPA 300.0/9056A				

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/13/20 15:05

SP6-7 P003056-09 (Solid)

		1 0050	30-09 (30	muj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	-150	2011027	03/11/20	03/13/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OH	RO								
Diesel Range Organics (C10-C28)	51.6	25.0	mg/kg	1	2011035	03/12/20	03/13/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011035	03/12/20	03/13/20	EPA 8015D	
Surrogate: n-Nonane		85.1 %	50-	-200	2011035	03/12/20	03/13/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011027	03/11/20	03/13/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	50-	-150	2011027	03/11/20	03/13/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	306	20.0	mg/kg	1	2011020	03/11/20	03/12/20	EPA 300.0/9056A	

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PO Box 1058 Project Number: 19054-0003 Reported: Hobbs NM, 88240 Project Manager: Lindsey Salgado 03/13/20 15:05

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

	D. Iv	Reporting	TT :	Spike	Source	0/DEC	%REC	DDD	RPD	NI.
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2011027 - Purge and Trap EPA 5030A										
Blank (2011027-BLK1)				Prepared: (03/11/20 1 A	nalyzed: 0	3/12/20 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.37		"	8.00		105	50-150			
LCS (2011027-BS1)				Prepared: (03/11/20 1 A	nalyzed: 0	3/12/20 1			
Benzene	4.23	0.0250	mg/kg	5.00		84.7	70-130			
Toluene	4.67	0.0250	"	5.00		93.4	70-130			
Ethylbenzene	4.76	0.0250	"	5.00		95.2	70-130			
p,m-Xylene	9.45	0.0500	"	10.0		94.5	70-130			
o-Xylene	4.74	0.0250	"	5.00		94.8	70-130			
Total Xylenes	14.2	0.0250	"	15.0		94.6	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.46		"	8.00		106	50-150			
Matrix Spike (2011027-MS1)	Sou	rce: P003055-	01	Prepared: (03/11/20 1 A	analyzed: 0	3/12/20 1			
Benzene	4.27	0.0250	mg/kg	5.00	ND	85.3	54.3-133			
Toluene	4.82	0.0250	"	5.00	ND	96.5	61.4-130			
Ethylbenzene	4.95	0.0250	"	5.00	ND	99.0	61.4-133			
p,m-Xylene	9.83	0.0500	"	10.0	ND	98.3	63.3-131			
o-Xylene	4.94	0.0250	"	5.00	ND	98.7	63.3-131			
Total Xylenes	14.8	0.0250	"	15.0	ND	98.4	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.44		"	8.00		106	50-150			
Matrix Spike Dup (2011027-MSD1)	Sou	rce: P003055-	01	Prepared: (03/11/20 1 A	analyzed: 0	3/12/20 1			
Benzene	4.22	0.0250	mg/kg	5.00	ND	84.4	54.3-133	1.07	20	
Toluene	4.77	0.0250	"	5.00	ND	95.4	61.4-130	1.10	20	
Ethylbenzene	4.92	0.0250	"	5.00	ND	98.4	61.4-133	0.545	20	
p,m-Xylene	9.78	0.0500	"	10.0	ND	97.8	63.3-131	0.562	20	
o-Xylene	4.90	0.0250	"	5.00	ND	98.0	63.3-131	0.707	20	
Total Xylenes	14.7	0.0250	"	15.0	ND	97.8	0-200	0.610	200	
Surrogate: 4-Bromochlorobenzene-PID	8.49		"	8.00		106	50-150			
Surrogue. 7-Diomochiorovenzene-11D	0.47			0.00		100	30-130			

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/13/20 15:05

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
	D 1:		** **	-		N/DEG		DDD		N T .
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2011035 - DRO Extraction EPA 3570										
Blank (2011035-BLK1)				Prepared: (03/12/20 1 /	Analyzed: 0	3/12/20 2			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	50.9		"	50.0		102	50-200			
LCS (2011035-BS1)				Prepared: (03/12/20 1 /	Analyzed: 0	3/13/20 0			
Diesel Range Organics (C10-C28)	421	25.0	mg/kg	500		84.2	38-132			
Surrogate: n-Nonane	46.4		"	50.0		92.7	50-200			
Matrix Spike (2011035-MS1)	Sou	rce: P003046-	01	Prepared: (03/12/20 1	Analyzed: 0	3/13/20 0			
Diesel Range Organics (C10-C28)	428	25.0	mg/kg	500	ND	85.6	38-132			
Surrogate: n-Nonane	47.0		"	50.0		94.0	50-200			
Matrix Spike Dup (2011035-MSD1)	Sou	rce: P003046-	01	Prepared: (03/12/20 1 /	Analyzed: 0	3/13/20 0			
Diesel Range Organics (C10-C28)	428	25.0	mg/kg	500	ND	85.6	38-132	0.0736	20	
Surrogate: n-Nonane	47.2		"	50.0		94.3	50-200			
-										

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Page 13 of 18



Spur Project Name: Ross Ranch Battery

PO Box 1058 Project Number: 19054-0003 Reported: Hobbs NM, 88240 Project Manager: Lindsey Salgado 03/13/20 15:05

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

RPD

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2011027 - Purge and Trap EPA 5030A										
Blank (2011027-BLK1)				Prepared: (03/11/20 1	Analyzed: 0	3/12/20 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		"	8.00		86.2	50-150			
LCS (2011027-BS2)				Prepared: (03/11/20 1	Analyzed: 0	3/12/20 1			
Gasoline Range Organics (C6-C10)	45.8	20.0	mg/kg	50.0		91.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.99		"	8.00		87.4	50-150			
Matrix Spike (2011027-MS2)	Source	e: P003055-	01	Prepared: (03/11/20 1	Analyzed: 0	3/12/20 1			
Gasoline Range Organics (C6-C10)	48.3	20.0	mg/kg	50.0	ND	96.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		"	8.00		86.5	50-150			
Matrix Spike Dup (2011027-MSD2)	Source: P003055-01 Prepared: 03/11/20 1 Analyzed: 03/12/20 1									
Gasoline Range Organics (C6-C10)	47.4	20.0	mg/kg	50.0	ND	94.8	70-130	1.87	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		"	8.00		87.1	50-150			

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24 Hour Emergency Response Phone (800) 362-1879

RPD



Spur Project Name: Ross Ranch Battery

 PO Box 1058
 Project Number:
 19054-0003
 Reported:

 Hobbs NM, 88240
 Project Manager:
 Lindsey Salgado
 03/13/20 15:05

Reporting

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2011020 - Anion Extraction EPA 300	.0/9056A									
Blank (2011020-BLK1)				Prepared: (03/11/20 0 A	Analyzed: 0	3/11/20 1			
Chloride	ND	20.0	mg/kg							
LCS (2011020-BS1)				Prepared: (03/11/20 0 A	Analyzed: 0	3/11/20 1			
Chloride	251	20.0	mg/kg	250		100	90-110			
Matrix Spike (2011020-MS1)	Source	e: P003053-	01	Prepared: (03/11/20 0 A	Analyzed: 0	3/11/20 1			
Chloride	446	20.0	mg/kg	250	171	110	80-120			
Matrix Spike Dup (2011020-MSD1)	Source	e: P003053-	01	Prepared: (03/11/20 0 A	Analyzed: 0	3/11/20 1			
Chloride	445	20.0	mg/kg	250	171	110	80-120	0.153	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Lindsey Salgado03/13/20 15:05

Notes and Definitions

S6 Surrogate was diluted out due to high concentrations of target and/or non-target analytes and does not provide useful information. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Dalaasad +	Project Information
, ,	Client: SIA
	Project: Ross F
	Project Manager:
	Address:
-	City, State, Zip
7	Phone:
3	Email: LSala alo

Chain of Custody

		1
Page	of	1

Received by OCD: 9/30/2020 10:13:29 AM

Client: SIM				A	Attention: Nataue Gladdey		Lab U				Jse Only				TA	AT	EPA Program			
Project: Ross Rauch Battery								Lab WO#			Job Number				1D	3D	RCRA	CWA	SDWA	
Project Manager: Masan Salando				Address:			P003056				19054-0003			X			842	180		
Address:				City, State, Zip							Analysis and Method				,		Sta			
City, State, Zip				Phone:													NM CO	UT AZ		
Phone: Email: USala all Orhung - horse com					Email: Nyaddlug hungy-hors			3015										TV		
Report due by:), (),				by 8	by 8	021	760	10	300.0			Σ	_		TX OK	
Time	Date Date		No				Lab	ORC	DRC	by 8	3y 8.	ls 60	ide			- J	χτ - 2			
Sampled	Sampled	Matrix	Containers	Sample ID			Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	веро		Rem	narks
11:27	3/6/20	S	1	Sp11-1	2'		1									V				
4:00	3/6/20			Spia-	12		2									14				
2:13	3/6/20			SWI- 2	2		3									p				
2:31	3/6/20			SW2-	2		4									4				
2:53	3/6/20			SW3-	2		5									6				
1:54	3/6/20			SW4 -	2		6									P				
3:13	3/0/2			SW5- 3	2		7									X				
3:36	3/0/20)	Swo-	2		8									X				
	3																			
Addition	al Instruct	tions:		•			1													
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
	d by: (Signa		Date	Time	e	Received by: (Signature)	Date		Time				de la constante			la	h Use	e Only		
Fleson & lan 3-9-20 Dass Fall of all a				34	39/20 Time 0,30					Received on ice: (Y) / N										
Relinquished by: (Signature) Date 10 20 Time				10 20 Tim	Received by: (Signature)	Date	Date Time 3 · 10 · 2020 // 0 0 T1 T2 Date Time						T3							
Relinquished by: (Signature) Date Time				Time	151	Received by: (Signature)	Date 31la		Time UVO 7 % U											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other							3/16/20 9.40 AVG Temp °C 4 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
							returned to cli	curred to client or disposed of at the client expense. The report for the analysis of the above samples is applicable												
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



Project Information

Chain of Custody

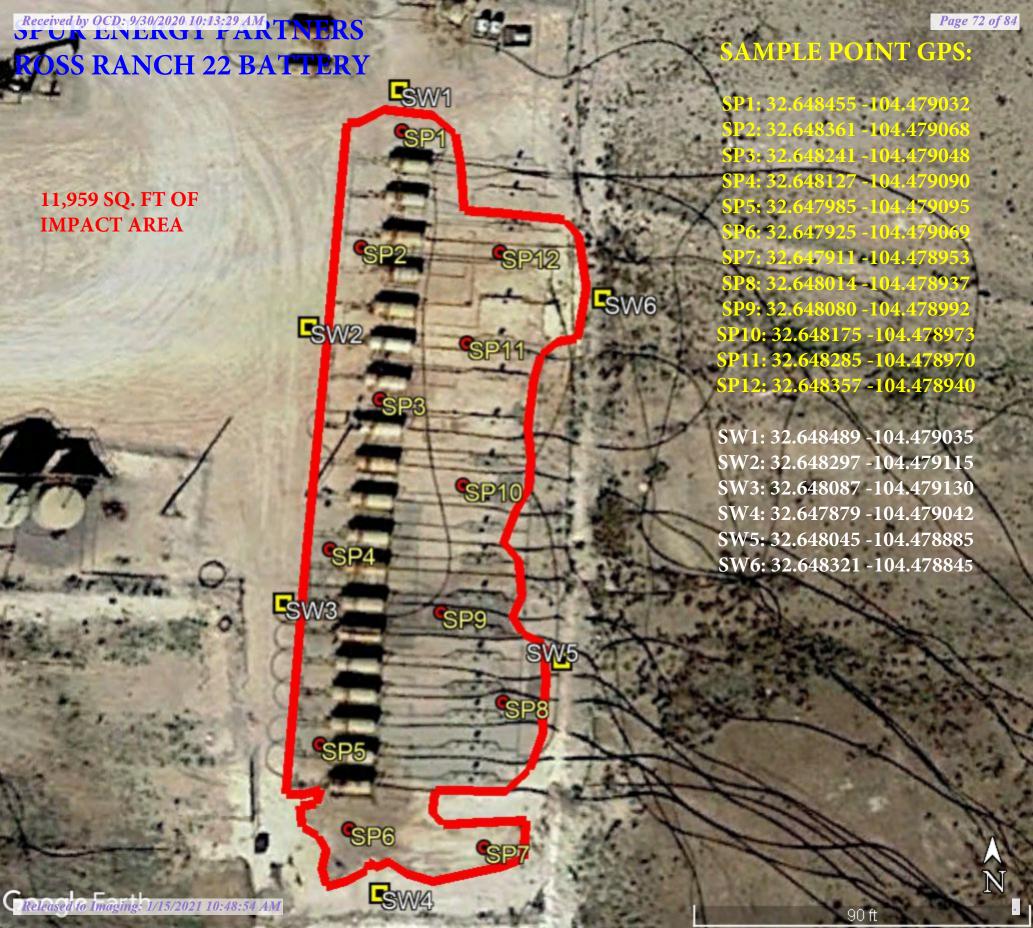
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Page _	of	1

Received by OCD: 9/30/2020 10:13:29 AM 81 Ju 81 Bued

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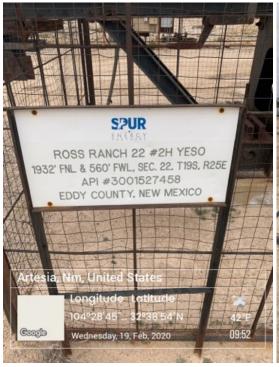
Client: Ola C	Attention: Nataue Gladdell		L	ab Us	e Only	TA	Т	EPA Program				
Project: Ross Rauch Battery Att			Lab WO#		Job Nu	1D 3	3D	RCRA	CWA	SDWA		
	Address:		P003056		1905		X		3			
	City, State, Zip					Analysis and Method				Stat		
City, State, Zip Pho	Phone:									NM CO	UT AZ	
Phone:	Email: Nya adlug hungy-hors		015							-		
Ellian. Dadi prop front gr-110/31 Cor.	,	by 8	by 8	09	0 8	300.0	Σ			TX OK		
Report due by:		ORO	ORO oy 80	y 82	600	C an	2	ķ.				
Time Date Sampled Matrix No Containers Sample ID	Lab Number	DRO/ORO by 8ch	GRO/DRO by 8015 BTEX by 8021	VOC by 8260	Metals 6010		BGDOC - NM	BGDOC		Rema	arks	
11:27 3/6/20 S 1 Sp11-12'	1						V					
4:00 3/4/20 (Sp12-12	2						1 y					
2:13 3/6/20 / SWI-2	3						b					
2:31 316120 / Swa-2	4						9					
2:53 316120 SW3-2	5						0					
1:54 3/6/20) SW4-2	L						P					
3:13 3/0/2 (SW5-2	7						X					
3:36360 m 1 SW10-2	8						X					
3/6/20 S 1 SPG-7 Per Client	9						X					
Per Client	3/11/20 RL											
Additional Instructions:												
, (field sampler), attest to the validity and authenticity of this sample. I am aware that tamper time of collection is considered fraud and may be grounds for legal action. Sampled by:	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									led or		
Relinquished by: (Signature) Date 3-9-21 Time Div30	Received by: Signature) all a Date of F	Received on ice: (y) / N										
Relignuished by: (Signature) Date 10 20 Time 00	Received by: 6 gnoture Date 3.10.1	Time				<u>T3</u>						
Relinquished by: (Signature) Date 3 · 10 · 2.020 15.15	Received by: (Signature) A Date							Town Applied 6				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable												
only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.												







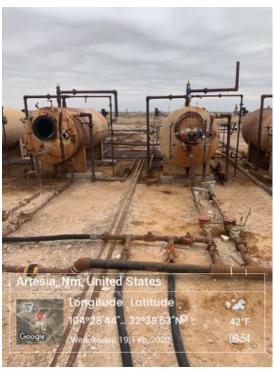
SPUR ENERGY PARTNERS ROSS RANCH 22 CTB – SPILL DATE 12/12/19 BEGINNING PHOTOS

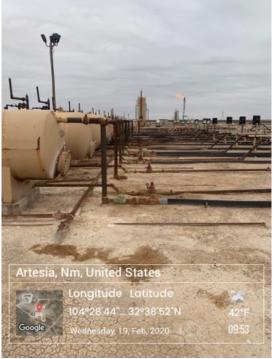


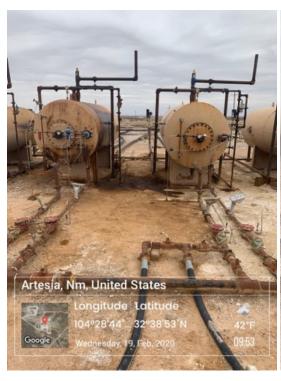


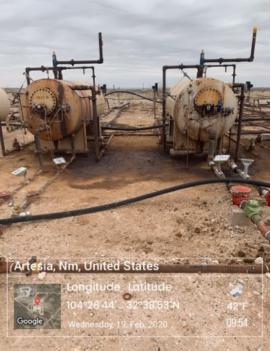
SPUR ENERGY PARTNERS ROSS RANCH 22 CTB – SPILL DATE 12/12/19

BEGINNING PHOTOS





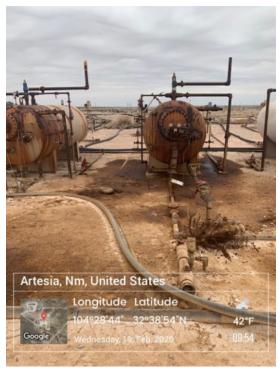


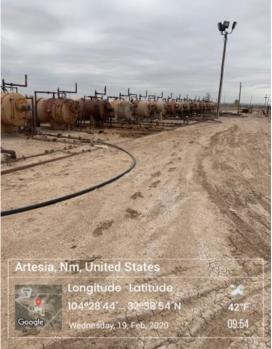


SPUR ENERGY PARTNERS

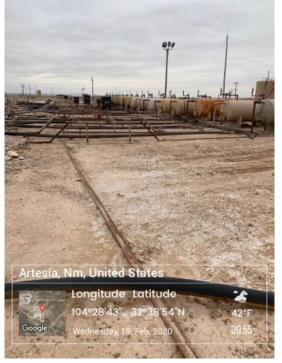
ROSS RANCH 22 CTB – SPILL DATE 12/12/19

BEGINNING PHOTOS





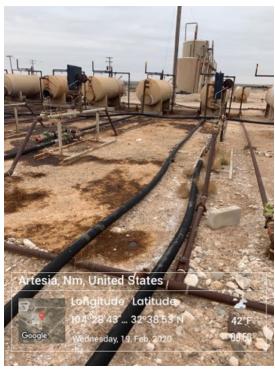


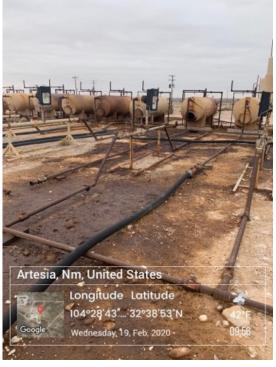


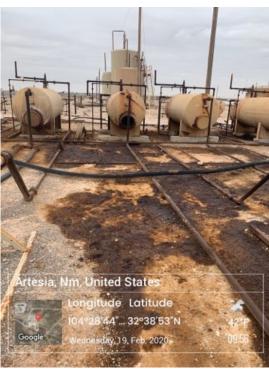
SPUR ENERGY PARTNERS

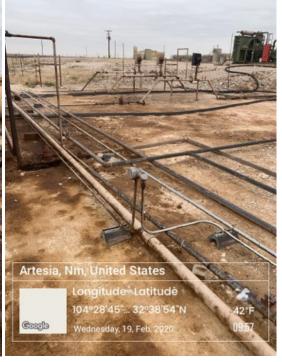
ROSS RANCH 22 CTB – SPILL DATE 12/12/19

BEGINNING PHOTOS



















SPUR ENERGY PARTNERS - ROSS RANCH 22 BATTERY DELINEATION PHOTOS







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District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	130' (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	⊠ Yes □ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well. Field data	ls.
Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps	
Depth to water determination Determination of water sources and significant watercoverses within 1/ mile of the leteral automs of the mile of the mile of the leteral automs of the mile of the mile of the leteral automs of the mile	
Boring or excavation logs	
Photographs including date and GIS information	
☐ Topographic/Aerial maps	
☐ Laboratory data including chain of custody	

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

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District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Title: Director of Environmental and Regulatory Natalie Gladden Date: Signature: email: natalie@energystaffing.com Telephone: 575-390-6397 **OCD Only** Received by: Date:

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NRH2002854238

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.			
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 			
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.			
☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.			
Extents of contamination must be fully delineated.			
☑ Contamination does not cause an imminent risk to human health, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Natalie Gladden Title: Director of Environmental & Regulatory Signature: Date: 7 (0/20)			
email: <u>natalie@energystaffingllc.com</u> Telephone: <u>575-390-6397</u>			
OCD Only			
Received by: Cristina Eads Date: 01/15/2021			
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved			
Signature: Date: 01/15/2021			

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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 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 10429

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
	SPUR ENERGY PARTNERS LLC	9655 Katy Freeway	328947	10429	C-141
Suite 50	0 Houston, TX77024				

OCD	Condition
Reviewer	
ceads	If a deferral request is to be made due to existing production equipment, areas unable to be remediated must be delineated as best as possible. For example, Further delineation is required at sample
	point SP-1. If access is limited to this area, continue delineation as near as possible to this point.
ceads	Confirmation sampling must meet Table I requirements for incidents where depth to water is greater than 100 feet below ground surface.