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	nCS1921756251
District RP	
Facility ID	
Application ID	ı

Release Notification

Responsible Party

			ICS	ponsi	ibic i ai i			
					OGRID 28	39408		
Contact Nan	ne: Vanessa	Fields			Contact Te	elephone (505)787-2027		
Contact ema	il: lfarrell@	logosresourceslic.	com		Incident #	ent # (assigned by OCD) nCS1921756251		
Contact mailing address 2010 Afton Pl Farmington, NM 87401								
			Location	of R	Release So	ource		
Latitude 36.8	3663635		(NAD 83 in de	ecimal de	Longitude -	107.37464		
Site Name: R	osa Unit 26'	7			Site Type:	Well		
Date Release	Date Release Discovered:7/19/2019			API# (if applicable)30-039-25012				
Unit Letter	Section	Township	Range	County		ty		
M	28	31N	5W	Rio	Arriba			
Surface Owne		Federal T	Nature and	d Vo	lume of I	Release justification for the volumes provided below)		
Crude Oi	l	Volume Release		realculat	nons of specific	Volume Recovered (bbls)		
Noduced Produced	Water	Volume Release	d (bbls) 15			Volume Recovered (bbls) 13		
		Is the concentrate produced water	tion of dissolved c >10,000 mg/l?	hloride	e in the	☐ Yes ⊠ No		
Condensa	ite	Volume Release	d (bbls)			Volume Recovered (bbls)		
☐ Natural G	ias	Volume Release	d (Mcf)			Volume Recovered (Mcf)		
Other (de	scribe)	Volume/Weight	Released (provide	e units))	Volume/Weight Recovered (provide units)		
Cause of Rel	ease: Tank v	vas recently replac	ed and the dump	valve v	vas left open.	Produced water was released into the secondary		

Other (describe)

Volume/Weight Released (provide units)

Volume/Weight Recovered and the dump valve was left open. Produced water was relected and the containment, saturating the ground outside the containment. All free liquids were removed via hydrovac.



State of New Mexico Oil Conservation Division

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Incident ID	nCS1921756251
District RP	
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Closure

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

Photographs of the remediated site prior to backfill or pust be notified 2 days prior to liner inspection)	photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriat	e ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
I hereby certify that the information given above is true and a	omplete to the best of my knowledge and understand that pursuant to OCD rules
and regulations all operators are required to report and/or file may endanger public health or the environment. The acceptar should their operations have failed to adequately investigate a human health or the environment. In addition, OCD acceptant compliance with any other federal, state, or local laws and/or	certain release notifications and perform corrective actions for releases which note of a C-141 report by the OCD does not relieve the operator of liability and remediate contamination that pose a threat to groundwater, surface water, ce of a C-141 report does not relieve the operator of responsibility for regulations. The responsible party acknowledges they must substantially the conditions that existed prior to the release or their final land use in
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible emediate contamination that poses a threat to groundwater, su arty of compliance with any other federal, state, or local laws	party of liability should their operations have failed to adequately investigate and rface water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by: Nelson Velez Nelson Velez	Date: 07/01/2022
Timed Name.	Title: Environmental Specialist – Adv





Nelson Velez New Mexico Oil Conservation Division

Incident # nCS1921756251

RE: API: 30-039-25012 Well Name: Rosa Unit 267

Unit Letter: M, Section: 28 Township: 31N, Range: 05W

Dear Mr. Velez,

The release at the Rosa Unit 267 was discovered on July 19, 2019. LOGOS Operating (LOGOS) immediately shut in the well and dispatched a water truck to pull the fluid from the affected area. Approximately 15 bbl. were released from the valve that was left open on the newly installed tank. The secondary containment is not lined, and fluid began seeping under the metal berm and left the location area on the southwest corner of the pad. LOGOS was able to recover 13 bbl. of fluid from the secondary containment. There is a cathodic well on the pad that depicts groundwater at 240' below surface. Gypsum and nitrogen were raked into the gravel in the secondary containment. LOGOS sampled the area on October 08, 2019, with the witness of NM Oil Conservation Division. All analytical results did not meet the 4' reclamation requirements. The original C-141 was submitted to the NMOCD and denied due to not meeting the closure requirements per 19.15.29.

Due to changes in staff and Covid 19, the referenced release final C-141 was never submitted to the NMOCD.

On October 08, 2021, LOGOS notified BLM and NMOCD for final confirmation sample to be taken on October 14. 2021.

Per the results analytical report from Envirotech SS-1 was above content level. LOGOS must remediate.

		10/8/2021	L Analytical F	Results	Sand Sa		
Date	Sample	EPA Method 8015		EPA Method 8021		EPA Method 300.0	
10/8/2021	Depth	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
5.29.13 (D) NMA	AC .	4' recla	mation requi	rements	10 mg/kg	50 mg/kg	600 mg/kg
.15.29.12 NMAC		1000				lagri e	10,000 mg/kg
10/8/2021	N/A	ND	291	754	ND	ND	699
	10/8/2021 5.29.13 (D) NMA .15.29.12 NMAC	10/8/2021 Depth Surface 5.29.13 (D) NMAC .15.29.12 NMAC	Date 10/8/2021 Sample EPA Method GRO (mg/kg) Surface 5.29.13 (D) NMAC 4' reclase 15.29.12 NMAC 1000	Date 10/8/2021 Depth EPA Method 8015 GRO (mg/kg) Umg/kg) Surface S.29.13 (D) NMAC 4' reclamation requires 100 mg/kg 15.29.12 NMAC 1000 mg/kg 2500 mg/kg 2500 mg/kg	10/8/2021 Depth GRO (mg/kg) DRO (mg/kg) (mg/kg)	Date 10/8/2021 Sample Depth GRO GRO (mg/kg) Cmg/kg) Surface S.29.13 (D) NMAC 4' reclamation requirements 10 mg/kg .15.29.12 NMAC 1000 mg/kg 2500 mg/kg EPA Method 8021 Benzene (mg/kg) Benzene (mg/kg) Surface 100 mg/kg Surface 100 mg/kg Surface S.29.12 NMAC Surface S.29.12 NMAC Surface Surfa	Date 10/8/2021 Sample Depth GRO (mg/kg) Cmg/kg) Surface Sign DRO (mg/kg) Cmg/kg DRO (mg/kg) Surface Sign DRO (mg/kg) Surface Sign DRO (mg/kg) Sign Sig

Delineation was conducted on the Rosa Unit #267 and confirmation sampling was conducted on October 06, 2021.

HELE		Part William	10/24/202	1 Analytical	Results			
Sample	Date	Sample	Sample EPA Method 8015		EPA Metho	EPA Method 8021		d 300.0
Description	10/24/2021	Depth 4'	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
19.1	5.29.13 (D) NMA	c	4' recla	mation requi 100 mg/kg	rements	10 mg/kg	50 mg/kg	600 mg/kg
19	.15.29.12 NMAC		1000	mg/kg		-3.408-1	N 8 5 W	10,000
				2500 mg/kg		1. 1. 05,0	BTEX (mg/kg)	mg/kg
SD 1	10/24/2021		ND	ND	ND	ND	ND	101
SD 2	10/24/2021		ND	ND	ND	ND	ND	179
SD 3	10/24/2021		ND	ND	ND	ND	ND	199
SD 4	10/24/2021		ND	ND	ND	ND	ND	331

Remediation began and the site affected by the release was excavated to 3'bgs. Confirmation sampling was conducted on November 11, 2021.

			11/11/202	1 Analytical	Results			
Sample	Date	Sample	EPA Metho	d 8015	EPA Metho	od 8021	EPA Metho	d 300.0
Description	11/11/2021	Depth Max 3'	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
19.15.29.13 (D) NMAC			4' reclamation requirements 100 mg/kg			10 mg/kg	50 mg/kg	600 mg/kg
19.15.29.12 NMAC			1000 mg/kg 2500 mg/kg		NEW SY ST			10,000 mg/kg
SB 1 Grab Wall	11/11/2021		ND	ND	ND	ND	ND	62.7
SB 2 Grab Bottom	11/11/2021		ND	ND	ND	ND	ND	78.8
SB 2	11/11/2021	1'	ND	ND	ND	ND	ND	178
SB 2	11/11/2021	3	ND	ND	ND	ND	ND	136
SB 3	11/11/2021	12	ND	ND	ND	ND	ND	138
SB 3	11/11/2021	3'	ND	ND	ND	ND	ND	121
SB 4	11/11/2021	1'	ND	108	274	ND	ND	90.1
SB 4	11/11/2021	3'	ND	29.7	72.0	ND	ND	86.4
SB 5	11/11/2021	17	ND	ND	ND	ND	ND	2,400
SB 5	11/11/2021	3'	ND	ND	ND	ND	ND	108

Final Confirmation sampling occurred on December 9, 2021. All analytical results were below regulatory standards after further remediation.

			12/09/202	1 Analytical	Results			V 44
Sample Date		e Sample		EPA Method 8015		EPA Method 8021		d 300.0
Description	12/09/2021	Depth Max 4'	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
19.1	5.29.13 (D) NMA	C	4' recla	mation requi	rements	10 mg/kg	50 mg/kg	600 mg/kg
19	.15.29.12 NMAC		1000	mg/kg		1 7 8 4		10,000
				2500 mg/kg				mg/kg
SB 4 Base	12/09/2021	4'	ND	ND	ND	ND	ND	51.0
SB 4 Wall	12/09/2021	4'	ND	ND	ND	ND	ND	104
SB 5 Base	12/09/2021	4'	ND	ND	ND	ND	ND	208
SB 5 Wall	12/09/2021	4'	ND	ND	ND	ND	ND	293
SB 6 Base	12/09/2021	4'	ND	ND	ND	ND	ND	49.6

Received by OCD: 6/27/2022 11:57:06 AM

		Table I	
		oils Impacted by a Release	
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	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
>100 feet	Chloride***	EPA 300.0 or SM4500 CI B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	ВТЕХ	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

The samples that were collected were placed into individual laboratory 4-ounce jars, capped head space free and transported on ice to Envirotech. The samples were analyzed for TPH (GRO/DRO/ORO) using EPA Method 8015D; benzene, Toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B and chlorides using EPA Method 300.0.

All final confirmation sampling that was collected was below NMOCD 19.15.29 closure standard of

Therefore, based on the site activities and the laboratory analytical results confirms that concentrations of contaminants are below the applicable release, remediation/reclamation limits and no further action is required. LOGOS request a release and remediation/reclamation closure approval from NMOCD.

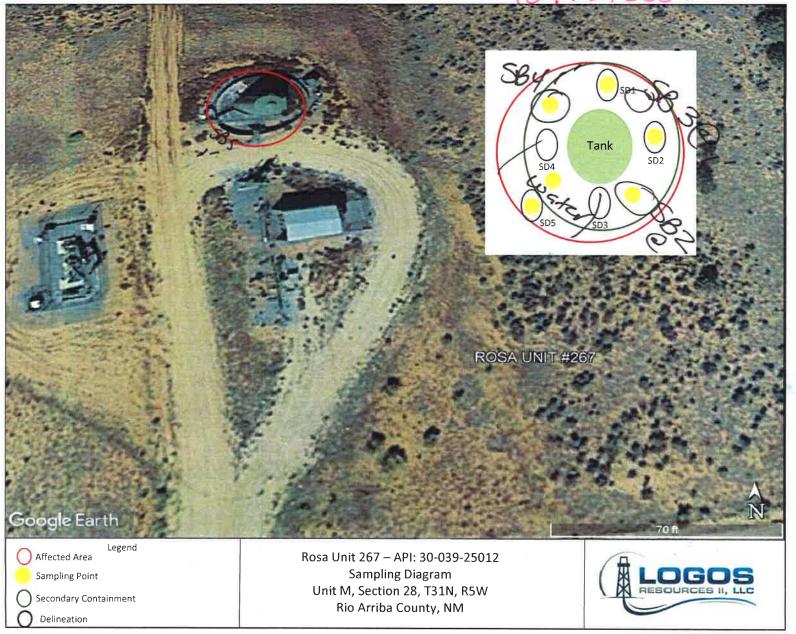
Sincerely,

Vanessa Fields Regulatory Manager Cell: 505-320-1243

LOGOS



36.9663635







Marie Florez

From:

Marie Florez

Sent:

Wednesday, November 10, 2021 1:51 PM

To:

Fletcher Christian

Subject:

FW: Rosa Unit 267- 36.8663635,-107.374640 - Notification for Final Confirmation

sample - Re-schedule for Thursday

Marie E. Florez

mflorez@logosresourcesllc.com



From: Marie Florez

Sent: Tuesday, November 9, 2021 7:27 AM

To: mike.bratcher@state.nm.us; A Adeloye Abiodun <aadeloye@blm.gov>; L Demarco Jaime <jdemarco@blm.gov>;

Smith Cory EMNRD < Cory. Smith@state.nm.us>

Cc: Robert Bixler <rbixler@logosresourcesllc.com>; Robert Jordan <rjordan@logosresourcesllc.com>; David Dryer

<ddryer@logosresourcesllc.com>; Chris Clark <cclark@logosresourcesllc.com>; Marcia Brueggenjohann
<mbrueggenjohann@logosresourcesllc.com>; Etta Trujillo <etrujillo@logosresourcesllc.com>; Joyner Ryan

<rjoyner@blm.gov>

Subject: RE: Rosa Unit 267- 36.8663635,-107.374640 - Notification for Final Confirmation sample - Re-schedule for

Thursday

LOGOS is notifying OCD (2) business day prior to conducting final sampling on the following well.

Date: November 11, 2021 (Thursday)

Time: 10:30am

Incident # nCS1921756251

Surface: Federal

API: 30-039-25012

Well Name: Rosa Unit 267

Section: 28 Township:31N Range: 5W Unit Letter: M

Footage: 1115 FSL 1200 FWL

Lat 36.8663635 Long -107.374640

Marie E. Florez

mflorez@logosresourcesllc.com



From: Marie Florez

Sent: Friday, November 5, 2021 6:50 AM

To: mike.bratcher@state.nm.us; A Adeloye Abiodun aadeloye@blm.gov; L Demarco Jaime jdemarco@blm.gov;

Smith Cory EMNRD <Cory.Smith@state.nm.us>

Cc: Robert Bixler <rbixler@logosresourcesllc.com>; Robert Jordan <ri>rjordan@logosresourcesllc.com>; David Dryer</ri>

cdryer@logosresourcesllc.com; Chris Clark cclark@logosresourcesllc.com; Marcia Brueggenjohann

<mbr/>stra Trujillo <etrujillo@logosresourcesllc.com>; Joyner Ryan

<ri>oyner@blm.gov>

Subject: Rosa Unit 267- 36.8663635,-107.374640 - Notification for Final Confirmation sample

LOGOS is notifying OCD (2) business day prior to conducting final sampling on the following well.

Date: November 9, 2021 (Tuesday)

Time: 10:30am

Incident # nCS1921756251

Surface: Federal

API: 30-039-25012

Well Name: Rosa Unit 267

Section: 28 Township:31N Range: 5W Unit Letter: M

Footage: 1115 FSL 1200 FWL

Lat 36.8663635 Long -107.374640

Thanks,

Marie E. Florez LOGOS Resources, LLC 505-419-8420

Released to Imaging: 7/1/2022 2:01:47 PM

From: Marie Florez

To: Adeloye, Abiodun A; mike bratcher@state.nm.us; Demarco, Jaime L; Smith Cory EMNRD

Cc: Robert Bixler; Robert Jordan; David Dryer; Marcia Brueggenjohann; Etta Trujillo; Joyner, Ryan N; Fletcher

Christia

Subject: RE: [EXTERNAL] RE: Rosa Unit 267- 36.8663635,-107.374640 - Notification for Final Confirmation sample -

IPDATE

Date: Monday, November 29, 2021 12:19:00 PM

Update:

After receiving the confirmation sample reports from Envirotech, 2 of the 5 samples were above content level. LOGOS will remediate and schedule to re-sample later.

Thanks,

Marie E. Florez

mflorez@logosresourcesllc.com



From: Adeloye, Abiodun A <aadeloye@blm.gov>

Sent: Tuesday, November 9, 2021 4:18 PM

To: Marie Florez <mflorez@logosresourcesllc.com>; mike.bratcher@state.nm.us; Demarco, Jaime L

<jdemarco@blm.gov>; Smith Cory EMNRD <Cory.Smith@state.nm.us>

Cc: Robert Bixler <rbixler@logosresourcesllc.com>; Robert Jordan

<rjordan@logosresourcesllc.com>; David Dryer <ddryer@logosresourcesllc.com>; Chris Clark

<cclark@logosresourcesllc.com>; Marcia Brueggenjohann

<mbrueggenjohann@logosresourcesllc.com>; Etta Trujillo <etrujillo@logosresourcesllc.com>;

Joyner, Ryan N <rjoyner@blm.gov>

Subject: Re: [EXTERNAL] RE: Rosa Unit 267- 36.8663635,-107.374640 - Notification for Final

Confirmation sample - Re-schedule for Thursday

Hi, Florez, Logos can proceed with the sampling if BLM representative is not present at the time of the sampling. Please let BLM knows if there is a change of date and time of the sampling immediately.

BLM acceptance of this notification to collect final samples does not relieve Logos of any other requirements imposed by other regulatory agencies.

Please let me know if you have any questions.

Thank you.

Abiodun Adeloye (Emmanuel), NRS

Bureau of Land Management Farmington Field Office 6251 College Blvd., Suite A Farmington, NM 87402 Office Phone: 505-564-7665 Cell Phone: 505-635-0984

From: Marie Florez <mflorez@logosresourcesllc.com>

Sent: Tuesday, November 9, 2021 7:26 AM

To: mike.bratcher@state.nm.us <mike.bratcher@state.nm.us>; Adeloye, Abiodun A <aadeloye@blm.gov>; Demarco, Jaime L <<u>idemarco@blm.gov</u>>; Smith Cory EMNRD

<Cory.Smith@state.nm.us>

Cc: Robert Bixler <rbixler@logosresources||c.com>; Robert Jordan

<<u>riordan@logosresourcesllc.com</u>>; David Dryer <<u>ddryer@logosresourcesllc.com</u>>; Chris Clark

<cclark@logosresourcesllc.com>; Marcia Brueggenjohann

<mbrueggenjohann@logosresourcesllc.com>; Etta Trujillo <etrujillo@logosresourcesllc.com>;

Joyner, Ryan N <riovner@blm.gov>

Subject: [EXTERNAL] RE: Rosa Unit 267- 36.8663635,-107.374640 - Notification for Final

Confirmation sample - Re-schedule for Thursday

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

LOGOS is notifying OCD (2) business day prior to conducting final sampling on the following well.

Released to Imaging: 7/1/2022 2:01:47 PM

Date: November 11, 2021 (Thursday)

Time: 10:30am

Incident # nCS1921756251

Surface: Federal

API: 30-039-25012

Well Name: Rosa Unit 267

Section: 28 Township:31N Range: 5W Unit Letter: M

Footage: 1115 FSL 1200 FWL

Lat 36.8663635 Long -107.374640

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mflorez@logosresourcesllc.com



From: Marie Florez

Sent: Friday, November 5, 2021 6:50 AM

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<id><idemarco@blm.gov>; Smith Cory EMNRD <Cory.Smith@state.nm.us></d>

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Ryan <rioyner@blm.gov>

Subject: Rosa Unit 267- 36.8663635,-107.374640 - Notification for Final Confirmation sample

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Date: November 9, 2021 (Tuesday)

Time: <u>10:30am</u>

Incident # nCS1921756251

Surface: Federal

API: 30-039-25012

Well Name: Rosa Unit 267

Section: 28 Township:31N Range: 5W **Unit Letter: M**

Footage: 1115 FSL 1200 FWL

Lat 36.8663635 Long -107.374640

Thanks,

Marie E. Florez LOGOS Resources, LLC 505-419-8420

Marie Florez

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Sent: Tuesday, November 9, 2021 7:27 AM

To: mike.bratcher@state.nm.us; A Adeloye Abiodun; L Demarco Jaime; Smith Cory EMNRD Cc:

Robert Bixler; Robert Jordan; David Dryer; Chris Clark; Marcia Brueggenjohann; Etta

Trujillo; Joyner Ryan

Subject: RE: Rosa Unit 267-36.8663635,-107.374640 - Notification for Final Confirmation sample

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Cc: Robert Bixler <rbixler@logosresourcesllc.com>; Robert Jordan <rjordan@logosresourcesllc.com>; David Dryer <ddryer@logosresourcesllc.com>; Chris Clark <cclark@logosresourcesllc.com>; Marcia Brueggenjohann <mbrueggenjohann@logosresourcesllc.com>; Etta Trujillo <etrujillo@logosresourcesllc.com>; Joyner Ryan <rjoyner@blm.gov>

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Time: <u>10:30am</u>

Incident # nCS1921756251

Surface: Federal

API: 30-039-25012

Well Name: Rosa Unit 267

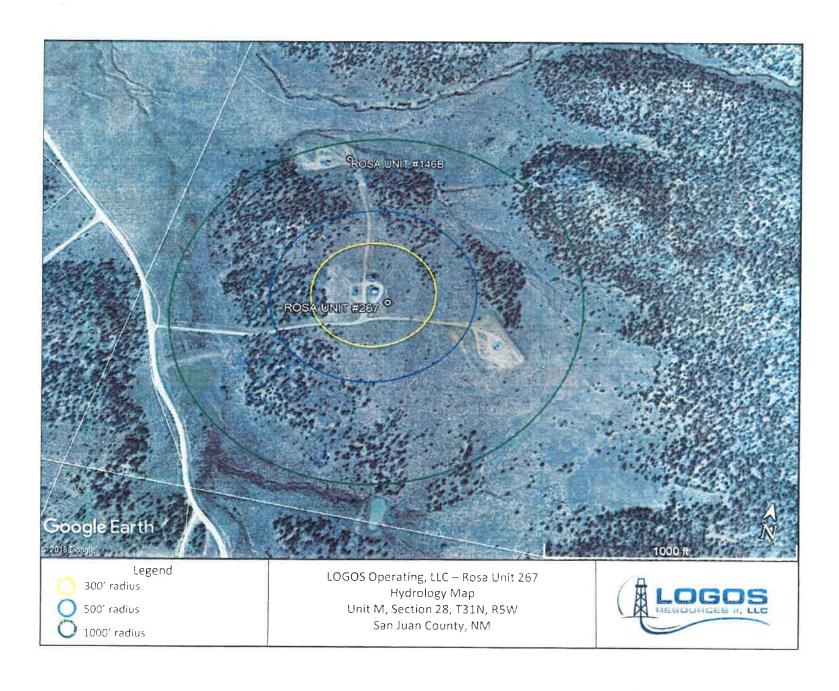
Section: 28 Township:31N Range: 5W **Unit Letter: M**

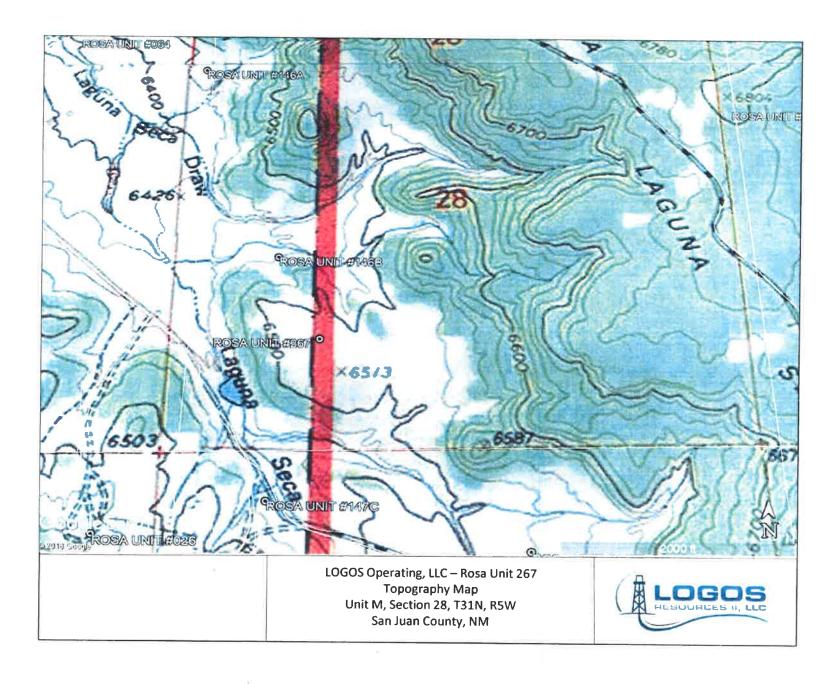
Footage: 1115 FSL 1200 FWL

Lat 36.8663635 Long -107.374640

Thanks,

Marie E. Florez **LOGOS Resources, LLC** 505-419-8420





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ived by OCD: 6	

664 30-039-25012

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

*		•		229	500
Operator Manda	Col Lo	cation: Ur	iit <u>m</u> Sec.	28 Twp 3/.	Rng <u></u>
Name of Well/Walls or Pi					
Elevation <u>6.5/3</u> Completion	Date 9-19-01 T	otal Depth	1 4/2 Las	nd Type	F
Casing Strings, Sizes, T	'ypes & Depths	10 de	4.40. 5	-'/C	3) -4 (1) - 3)
If Casing Strings are ce	emented, show am				
If Cement or Bentonite F	'lugs have been	placed, sh	ow depths	& amount	s used
Depths & thickness of was		_	DEG		
Depths gas encountered:	NO		OIL CO	DN DIV	
Ground bed depth with ty	rpe & amount of		_		
Depths anodes placed:	1				
Depths vent pipes placed	l:350´				
Vent pipe perforations:			ted be	ttom 2	30' fic
**					

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Released to Imaging: 7/1/2022 2:01:47 PM

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.



Analytical Report

Report Summary

Client: Logos Operating, LLC

Samples Received: 10/8/2019 Job Number: 12035-0114

Work Order: P910031

Project Name/Location: Rosa 267

Report Reviewed By:	Walter Hinderwood	Date:	10/11/19	
•				

Walter Hinchman, Laboratory Director



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Envirotech, inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415 Project Name: Project Number:

Project Manager:

Rosa 267 12035-0114 Larissa Farrell

Reported: 10/11/19 16:32

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Rosa 267-SS1	P910031-01A	Soil	10/08/19	10/08/19	Glass Jar, 4 oz.
	P910031-01B	Soil	10/08/19	10/08/19	Glass Jar, 4 oz.

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Received by OCD: 6/27/2022 11:57:06 AM

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Logos Operating, LLCProject Name:Rosa 267PO Box 18Project Number:12035-0114Reported:Flora Vista NM, 87415Project Manager:Larissa Farrell10/11/19 16:32

Rosa 267-SS1 P910031-01 (Solid)

			31-01 (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:	1941027	10/09/19	10/10/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	Ţ.	1941027	10/09/19	10/10/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	Ľ	1941027	10/09/19	10/10/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1941027	10/09/19	10/10/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1941027	10/09/19	10/10/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1941027	10/09/19	10/10/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		91.7%	50-1	150	1941027	10/09/19	10/10/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	291	25.0	mg/kg	1	1941026	10/09/19	10/09/19	EPA 8015D	
Oil Range Organics (C28-C40)	754	50.0	mg/kg	1	1941026	10/09/19	10/09/19	EPA 8015D	
Surrogate: n-Nonane		116 %	50-2	200	1941026	10/09/19	10/09/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1941027	10/09/19	10/10/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.5 %	50-1	50	1941027	10/09/19	10/10/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	699	40.0	mg/kg	2	1941028	10/09/19	10/09/19	EPA 300.0/9056A	

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Flora Vista NM, 87415

Project Name:

Rosa 267

PO Box 18

Project Number: Project Manager: 12035-0114 Larissa Farrell Reported: 10/11/19 16:32

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

	D Iv	Reporting	11.5	Spike	Source	0/DEC	%REC	DDD	RPD	Ninter
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1941027 - Purge and Trap EPA 5030A										
Blank (1941027-BLK1)				Prepared: 1	0/09/19 I A	Analyzed: 1	0/11/19 0			
Вепгепе	ND	0.0250	mg/kg							
Toluene	ND	0.0250	F461							
Ethylbenzene	ND	0.0250	**							
p,m-Xylene	ND	0.0500	(100)							
o-Xylene	ND	0.0250	((44))							
Total Xylenes	ND	0.0250								
Surrogate: 4-Bromochlorobenzene-PID	7.57		#1.	8.00		94.6	50-150			
LCS (1941027-BS1)				Prepared: 1	0/09/19 1 A	Analyzed: 1	0/11/19 0			
Benzene	5.17	0.0250	mg/kg	5.00		103	70-130			
Toluene	5.15	0.0250	0.000	5.00		103	70-130			
Ethylbenzene	5.13	0.0250	5090	5.00		103	70-130			
p,m-Xylene	10.3	0.0500	(640)	10.0		103	70-130			
o-Xylene	5.16	0.0250	140	5.00		103	70-130			
Total Xylenes	15.4	0.0250		15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.57		- 2	8.00		94.6	50-150			
Matrix Spike (1941027-MS1)	Sou	rce: P910027-	01	Prepared: 1	10/09/19 1 A	Analyzed: 1	0/11/19 0			
Benzene	4.91	0.0250	mg/kg	5.00	ND	98.2	54.3-133			
Toluene	4.89	0.0250	"	5.00	ND	97.8	61.4-130			
Ethylbenzene	4.87	0.0250	**	5.00	ND	97.5	61.4-133			
p.m-Xylene	9.77	0.0500	"	10.0	ND	97.7	63.3-131			
o-Xylene	4,88	0.0250	11	5.00	ND	97.6	63:3-131			
Total Xylones	14.6	0.0250		15.0	ND	97.6	63,3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.16	0,0200	n	8.00		89.6	50-150			
Matrix Spike Dup (1941027-MSD1)	Sou	rce: P910027-	N1	Prepared:	10/09/19 1 <i>A</i>	Analyzed: 1	0/11/19 1			
Benzene	5.02			5.00	ND	100	54.3-133	2.16	20	
Toluene	4.99	0.0250 0.0250	ing/kg	5.00	ND ND	99.8	61.4-130	1.94	20	
Ethylbenzene	4.99	0.0250		5.00	ND	99 8	61.4-133	1.65	20	
•										
p,m-Xylene	9.89	0.0500	er.	10.0	ND	98.9	63,3-131	1.27	20	
o-Xylene	4.99	0.0250	er.	5.00	ND	99.7	63.3-131	2.18	20	
Total Xylenes	14.9	0.0250		15.0	ND	99.2	63,3-131	1.58	20	
Surrogate: 4-Bromochlorobenzene-PID	7.61		#/	8.00		95 /	50-150			

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Project Name:

Rosa 267

PO Box 18 Flora Vista NM, 87415 Project Number: Project Manager: 12035-0114 Larissa Farrell Reported: 10/11/19 16:32

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 1941026 - DRO Extraction EPA 3570										
Blank (1941026-BLK1)				Prepared:	10/09/19 0 /	Analyzed:	0/09/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	58 4		"	50.0		117	50-200			
LCS (1941026-BS1)				Prepared:	10/09/19 0 /	Analyzed:	10/09/19 1			
Diesel Range Organics (C10-C28)	537	25.0	mg/kg	500		107	38-132			
Surrogate: n-Nonane	60.1		*	50.0		120	50-200			
Matrix Spike (1941026-MS1)	Soui	rce: P910028-	01	Prepared:	10/09/19 0 /	Analyzed:	10/09/19 1			
Diesel Range Organics (C10-C28)	767	25.0	mg/kg	500	220	109	38-132			
Surrogate: n-Nonane	58.8		17	50.0		118	50-200			
Matrix Spike Dup (1941026-MSD1)	Sou	rce: P910028-	01	Prepared:	10/09/19 0 /	Analyzed:	10/09/19 1			
Diesel Range Organics (C10-C28)	777	25.0	mg/kg	500	220	112	38-132	1.33	20	
Surrogate: n-Nonanc	58.6		/#t	50.0		117	50-200			

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Project Name:

Rosa 267

PO Box 18 Flora Vista NM, 87415 Project Number: Project Manager: 12035-0114 Larissa Farrell Reported: 10/11/19 16:32

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1941027 - Purge and Trap EPA 50	30A									
Blank (1941027-BLK1)				Prepared: 1	10/09/19 1 /	Analyzed: 1	0/11/19 0			
Gasoline Range Organies (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-F1D	7.07		#	8.00		88 4	50-150			
LCS (1941027-BS2)				Prepared: 1	10/09/19 1	Analyzed: 1	0/11/19 1			
Gasoline Range Organics (C6-C10)	43,9	20.0	mg/kg	50.0		87.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		#	8.00		88 3	50-150			
Matrix Spike (1941027-MS2)	Sou	rce: P910027-	01							
Gasoline Range Organics (C6-C10)	46.5	20.0	mg/kg	50.0	ND	93.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		*	8.00		88.4	50-150			
Matrix Spike Dup (1941027-MSD2)	Sou	rce: P910027-	01	Prepared:	10/09/19 1	Analyzed: 1	0/11/19 1			
Gasoline Range Organics (C6-C10)	46.2	20.0	mg/kg	50,0	ND	92.3	70-130	0.734	20	
Surrogate: 1-Chloro-4-fluorohenzene-FID	7.02		**	8.00		87.8	50-150			

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Project Name:

Rosa 267

PO Box 18

Project Number:

12035-0114

Reported: 10/11/19 16:32

RPD

%REC

Flora Vista NM, 87415

Larissa Farrell Project Manager:

Reporting

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1941028 - Anion Extraction EPA 300.0	/9056A									
Blank (1941028-BLK1)				Prepared &	Analyzed:	10/09/19 1				
Chloride	ND	20.0	mg/kg							
LCS (1941028-BS1)				Prepared &	Analyzed:	10/09/19 1				
Chloride	256	20.0	mg/kg	250		102	90-110			
Matrix Spike (1941028-MS1)	Source	: P910027-	01	Prepared &	Analyzed:	10/09/19 1				
Chloride	295	20.0	mg/kg	250	36.3	103	80-120			
Matrix Spike Dup (1941028-MSD1)	Source	: P910027-	01	Prepared &	Analyzed:	10/09/19 1				
Chloride	293	20.0	mg/kg	250	36,3	103	80-120	0.677	20	

QC Summary Report

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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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Project Name:

Rosa 267

PO Box 18

Project Number:

12035-0114

Reported:

Flora Vista NM, 87415

Project Manager:

Larissa Farrell

10/11/19 16:32

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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Project Information

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Time Sampled	Date Sampled	Matrix	No Containers	Sample II)		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8250	Metals 6010	Chloride 300.0						Ren	narks
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				Resident																
Addition	al Instruc	tions:	-	3 D	24/												Vis	ice	in co	oler
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Relinquisty	St. Ising	dure)	Date	1819	3.5	Received by: (Signature)	Date 10 8	9	Time	:s	2	Rec	eive	d on	ice:		ab Us N	e Only		
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Relinquish	ed by: (Signa	ture)	Date		Time	Received by: (Signature)	Date		Time			AVG	Ten	np °C						H
Sample Mari	rix: S - Soil Sd	- Solid. Se -	Sludge, A - A	queous, O - O	ther		Containe	r Type	e: g - i	glass	D - E	-	_		_	-	55, V -	VOA		
Note: Sampl	es are discard	ed 30 days at	ter results a	re reported un	less other arr	angements are made. Hazardous samples we the laboratory is limited to the amount pake.	vill be returned to clie												samples is ap	plicable
-																		1 112	1.137	
	3ei	Apaly	rot	ec	h 555	6 US Highway 64 Farmington, NM 67401 Hour Emergency Response Phone (800) 362-1	170			P	h (505	632-18	81 Fx	(505) 6	32-186	5	ia		rotech ins 50 nymiech inc	100

Chain of Custody

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Page _____of____





Analytical Report

Report Summary

Client: Logos Operating, LLC

Samples Received: 10/24/2019 Job Number: 12035-0114 Work Order: P910164

Project Name/Location: Rosa 267-Delin

Report	Reviewed	By:
--------	----------	-----

Walter Hinder

Date:

10/31/19

Walter Hinchman, Laboratory Director



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Flora Vista NM, 87415

Project Name:

Rosa 267-Delin

PO Box 18

Project Number: Project Manager: 12035-0114 Larissa Farrell

Reported: 10/31/19 15:04

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Rosa 267 SD1	P910164-01A	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.
	P910164-01B	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.
Rosa 267 SD2	P910164-02A	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.
	P910164-02B	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.
Rosa 267 SD3	P910164-03A	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.
	P910164-03B	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.
Rosa 267 SD4	P910164-04A	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.
	P910164-04B	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.
Rosa 267 SD5	P910164-05A	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.
	P910164-05B	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.

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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415 Project Name:

Rosa 267-Delin

Project Number: Project Manager: 12035-0114 Larissa Farrell **Reported:** 10/31/19 15:04

Rosa 267 SD1 P910164-01 (Solid)

		Reporting	04-01 (50110	1)					
Analysis	Dogult		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte	Result	Limit	Onus	Dilution	Daten	Frepared	Anaryzeu	Meniod	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	l	1944004	10/29/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	l	1944004	10/29/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	l	1944004	10/29/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-15	50	1944004	10/29/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	D/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1944008	10/29/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944008	10/29/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		99.7 %	50-20	00	1944008	10/29/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	0								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.0 %	50-13	50	1944004	10/29/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	101	40.0	mg/kg	2	1944025	10/30/19	10/31/19	EPA 300.0/9056A	

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Received by OCD: 6/27/2022 11:57:06 AM





Project Name: Project Number: Rosa 267-Delin

PO Box 18

Flora Vista NM, 87415 Project Manager: 12035-0114 Larissa Farrell

Reported: 10/31/19 15:04

Rosa 267 SD2 P910164-02 (Solid)

		Reporting	01 02 (00)						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	l	1944004	10/29/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-	150	1944004	10/29/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	l	1944008	10/29/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	l	1944008	10/29/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-	200	1944008	10/29/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	l	1944004	10/29/19	10/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.8 %	50-	150	1944004	10/29/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A						_			
Chloride	179	40.0	mg/kg	2	1944025	10/30/19	10/31/19	EPA 300.0/9056A	

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Flora Vista NM, 87415

Project Name:

Rosa 267-Delin

PO Box 18

Project Number: Project Manager:

12035-0114 Larissa Farrell

Reported: 10/31/19 15:04

Rosa 267 SD3 P910164-03 (Solid)

		Reporting	01 05 (5011	<u> </u>					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	I	1944004	10/29/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-1	50	1944004	10/29/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OI	RO								
Diesel Range Organics (C10-C28)	ND	25,0	mg/kg	1	1944008	10/29/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	I	1944008	10/29/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-2	00	1944008	10/29/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	I	1944004	10/29/19	10/30/19	EPA 8015D	
Surrogate: I-Chloro-4-fluorobenzene-FID		85.1 %	50-1	50	1944004	10/29/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	199	40.0	mg/kg	2	1944025	10/30/19	10/31/19	EPA 300.0/9056A	

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Project Name:

Rosa 267-Delin

PO Box 18 Flora Vista NM, 87415 Project Number: Project Manager: 12035-0114 Larissa Farrell

Reported: 10/31/19 15:04

Rosa 267 SD4 P910164-04 (Solid)

		Reporting	0.0.(55						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	T.	1944004	10/29/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	-150	1944004	10/29/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	<u> </u>								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1944008	10/29/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944008	10/29/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50-	-200	1944008	10/29/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	l	1944004	10/29/19	10/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.3 %	50-	-150	1944004	10/29/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	331	40.0	mg/kg	2	1944025	10/30/19	10/31/19	EPA 300.0/9056A	

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Flora Vista NM, 87415

Project Name:

Rosa 267-Delin

PO Box 18

Project Number: Project Manager: 12035-0114 Larissa Farrell Reported:

10/31/19 15:04

Rosa 267 SD5 P910164-05 (Solid)

		Reporting	04-03 (30	iiu)					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte	Result	Linin	Units	Dilibilion	Datell	ricpared	Allalyzeu	Michiod	Holes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	I	1944004	10/29/19	10/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	ı	1944004	10/29/19	10/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-	150	1944004	10/29/19	10/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1944008	10/29/19	10/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944008	10/29/19	10/30/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50-	200	1944008	10/29/19	10/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944004	10/29/19	10/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F1D		84.9 %	50-	150	1944004	10/29/19	10/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	40.0	mg/kg	2	1944025	10/30/19	10/31/19	EPA 300.0/9056A	

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PO Box 18

Analyte

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

o-Xylene

Project Name:

Result

4.74

14.1

8.52

Rosa 267-Delin

Project Number:

12035-0114 Larissa Farrell

Reported: 10/31/19 15:04

RPD

Limit

Notes

RPD

Flora Vista NM, 87415

Project Manager:

Reporting

Limit

0.0250

0.0250

Volatile Organics by EPA 8021 - Quality Control

Source

Result

%REC

94.9

94,2

107

%REC

Limits

70-130

70-130

50-150

Spike

Level

5.00

15.0

8.00

Envirotech Analytical Laboratory

Units

Blank (1944004-BLK1)				Prepared: 10/29/	10 0 Analyzed: 1	0/31/19 0	
`				Trepared, 10/29/	19 0 Allalyzeu. 1	0/5///0	
Benzene	ND	0.0250	mg/kg				
Foluene	ND	0.0250	ж.				
Ethylbenzene	ND	0.0250	н				
o,m-Xylene	ND	0.0500	T				
p-Xylene	ND	0.0250	,M.				
Total Xylenes	ND	0.0250	H				
Surrogate: 4-Bromochlorobenzene-PID	8.52		*	8.00	107	50-150	
LCS (1944004-BS1)				Prepared: 10/29/	19 0 Analyzed: 1	0/31/19 0	
Benzene	3.98	0.0250	mg/kg	5.00	79.5	70-130	
Toluene	4,59	0.0250	¥	5.00	91.7	70-130	
Ethylbenzene	4.72	0.0250	225	5.00	94.3	70-130	
p,m-Xylene	9.39	0.0500	26	10.0	93.9	70-130	

Matrix Spike (1944004-MS1)	Sour	Source: P910164-01			0/29/19 0 /	Analyzed:	l: 10/31/19 0	
Benzene	4.02	0.0250	mg/kg	5.00	ND	80,3	54.3-133	
Toluene	4.65	0.0250	386	5.00	ND	93.1	61_4-130	
Ethylbenzene	4.81	0.0250	*	5.00	ND	96.2	61.4-133	
p.m-Xylene	9,57	0.0500	**	10.0	ND	95.7	63.3-131	
o-Xylene	4,83	0.0250	77	5.00	ND	96,5	63.3-131	
Total Xylenes	14.4	0.0250	200	15.0	ND	96.0	63.3-131	
Company of the American COD	9.43		240	9.40		1/10	50.150	

Matrix Spike Dup (1944004-MSD1)	Sour	ce: P910164-	N1	Prepared: 1	0/29/19 0 4	analyzed:	10/31/19 0		
								3.96	20
Benzene	3.86	0.0250	mg/kg	5.00	ND	77,2	54.3-133		20
Toluene	4.47	0.0250	.**	5,00	ND	89.4	61.4-130	4.00	20
Ethylbenzene	4.62	0.0250	*	5.00	ND	92,5	61.4-133	3.90	20
p,m-Xylene	9.18	0.0500	."	10,0	ND	91.8	63.3-131	4,12	20
p-Xylene	4.62	0,0250	7.7	5.00	ND	92.5	63,3-131	4.28	20
Total Xylenes	13,8	0,0250	94	15.0	ND	92.0	63,3-131	4.17	20
Surrogate: 4-Bromochlorobenzene-PID	8.70		(50)	8.00		109	50-150		

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Flora Vista NM, 87415

Project Name:

Rosa 267-Delin

PO Box 18

Project Number: Project Manager: 12035-0114 Larissa Farrell Reported:

10/31/19 15:04

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 1944008 - DRO Extraction EPA 3570										
Blank (1944008-BLK1)				Prepared:	10/29/19 1 /	Analyzed: 1	10/30/19 0			
Diesel Range Organies (C10-C28) Oil Range Organies (C28-C40)	ND ND	25 0 50 0	mg/kg							
Surrogate: n-Nonane	47.5		4	50.0		95 0	50-200			
LCS (1944008-BS1)				Prepared:	10/29/19 1 /	Analyzed: 1	10/30/19 0			
Diesel Range Organics (C10-C28)	496	25.0	mg/kg	500		99.3	38-132			
Surrogate: n-Nonane	50.8		177	50.0		102	50-200			
Matrix Spike (1944008-MS1)	Sour	ce: P910167-	01	Prepared:	10/29/19 1 /	Analyzed: 1	10/30/19 1			
Diesel Range Organics (C10-C28)	511	25.0	mg/kg	500	ND	102	38-132			
Surrogate: n-Nonane	49.4		Xe	50.0		98.8	50-200			
Matrix Spike Dup (1944008-MSD1)	Sour	ce: P910167-	01	Prepared:	10/29/19 1	Analyzed:	10/30/19 I			
Diesel Range Organics (C10-C28)	525	25.0	mg/kg	500	ND	105	38-132	2,61	20	
Surrogate: n-Nonane	48.7		100	50.0		97.3	50-200			

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Flora Vista NM, 87415

Project Name:

Rosa 267-Delin

PO Box 18

Project Number: Project Manager: 12035-0114 Larissa Farrell

Reported: 10/31/19 15:04

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1944004 - Purge and Trap EPA 5030A										
Blank (1944004-BLK1)				Prepared:	0/29/19 0 /	Analyzed: 1	0/31/19 0			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorohenzene-FID	6.86		(*)	8.00		85 8	50-150			
LCS (1944004-BS2)				Prepared:	10/29/19 0 /	Analyzed: l	0/31/19 0			
Gasoline Range Organics (C6-C10)	47_4	20.0	mg/kg	50.0		94.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzenc-FID	7.10		"	8.00		88.8	50-150			
Matrix Spike (1944004-MS2)	Sou	rce: P910164-	01	Prepared:	10/29/19 0 /	Analyzed: 1	0/31/19 0			
Gasoline Range Organics (C6-C10)	46.9	20.0	mg/kg	50.0	ND	93.9	70-130			
Surrogate: 1-Chloro-4-fluorohenzene-FID	6.91		"	8.00		86.4	50-150			
Matrix Spike Dup (1944004-MSD2)	Sou	rce: P910164-	01	Prepared:	10/29/19 0 /	Analyzed: 1	0/31/19 0			
Gasoline Range Organics (C6-C10)	45.9	20,0	mg/kg	50.0	ND	91.8	70-130	2,22	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.95		"	8.00		86.9	50-150			

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Project Name: Project Number: Rosa 267-Delin

PO Box 18

Flora Vista NM, 87415 Project Manager:

12035-0114 Larissa Farrell Reported: 10/31/19 15:04

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1944025 - Anion Extraction EPA 30	0.0/9056A									
Blank (1944025-BLK1)				Prepared:	10/30/19 1 /	Analyzed: 1	0/31/19 0			
Chloride	ND	20.0	mg/kg							
LCS (1944025-BS1)				Prepared:	10/30/19 1 A	Analyzed: 1	0/31/19 0			
Chloride	254	20,0	mg/kg	250		102	90-110			
Matrix Spike (1944025-MS1)	Sour	ce: P910156-	01	Prepared:	10/30/19 1 /	Analyzed: 1	0/31/19 0			
Chloride	303	20,0	mg/kg	250	46.8	102	80-120			
Matrix Spike Dup (1944025-MSD1)	Sour	ce: P910156-	01	Prepared:	10/30/19 1 A	Analyzed: 1	0/31/19 0			
Chloride	300	20 0	mg/kg	250	46.8	101	80-120	0.700	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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Flora Vista NM, 87415

Project Name:

Rosa 267-Delin

PO Box 18

Project Number: Project Manager: 12035-0114 Larissa Farrell

Reported: 10/31/19 15:04

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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5796 Highway 64, Farmington, NM 87401

Project: Report due by: Project Manager: Frame Address: City, State, Zip Phone: Email: Address Analysis and Method	State NM CO UT AZ TX OK Remarks
Address: City, State, Zip Phone: SOS TOTIVE Containers Sample ID Time Sampled Matrix No Containers Sample ID Time Sampled Matrix No Containers Sample ID Time Sampled Sampled Matrix So Rosa 267 SD2 Time Sampled Sampled Matrix So Rosa 267 SD2 Time Sampled Sampled Matrix No Containers Sample ID Time Sampled Sampled Matrix No Containers Sample ID	NM CO UT AZ
City, State, Zip Phone: 505 191100 2000	NM CO UT AZ
Phone: SOS STATION Phone: Email: Phone: Email: STORY OF STATION OF	TX OK
11:58 10/24/195 2 ROSA 24-7 SD2 1 VVV 1 1 2:07 NO24/19 5 2 ROSA 24-7 SD2 2 VV 1 1	
11:58 10/24/195 2 ROSA 267 SD1 1 VVV 1 1 2:01 NOVING S 2 ROSA 2607 SD2 2 VV 1 1	Remarks
11:58 10/24/195 2 ROSA 24-7 SD2 1 VVV 1 1 2:07 NO24/19 5 2 ROSA 24-7 SD2 2 VV 1 1	Remarks
2:07 Noulie 5 2 Rosa 2107 5D2 2 VV 1	
a. 01 (010 mm) 3 5 10 50 Ato 1 3 10 A	
2 11 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
2:14 daylig 5 2 Rosa 267 503 3 MM	
12:440/24/19 S 2 Rosa 267 5D4 4 9 9 9	
12/5/10/2011/9) 2 ROSL OUT SOUT 5 VVV	
Additional Instructions:	
(field simpler), uttent to the validity and authenticity of this sample. I am aware that tampering with or intentional multiple limits they have been done in the control of the control personal and may be grounds for fegal action. Sampled by:	
Relindershed by Signature) Date 13 Time W Beceived by Signature) Date 13 Time Beceived by Signature Date 14 13 Time Date 17 N Received on ice: (Y) N	
Received by: (Signature) Date Time Received by: (Signature) Time T1 T2	Т3
Relinquished by: (Signature) Oate Time Received by: (Signature) Date Time AVG Temp °C	
Sample Matrin: S - Soil, Sd - Soil, Sg - Skidge, 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 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.	e samples is applicable



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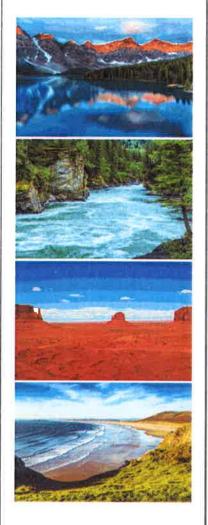
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Page 13 of 13



Report to: Robert Jordan



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Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Logos Resources

Project Name:

Rosa Unit 267

Work Order:

E111098

Job Number:

12035-0114

Received:

11/11/2021

Released to Imaging: 7/1/2022 2:01:47 PM

Revision: 1

Report Reviewed By:

Walter Hinchman **Laboratory Director** 11/19/21

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 11/19/21

Robert Jordan 2010 Afton Place Farmington, NM 87401

Project Name: Rosa Unit 267

Workorder: E111098

Date Received: 11/11/2021 1:25:00PM

Robert Jordan.

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/11/2021 1:25:00PM, under the Project Name: Rosa Unit 267.

The analytical test results summarized in this report with the Project Name: Rosa Unit 267 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

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ljarboe@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

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SB2 @1'	7
SB2 @3'	8
SB3@1'	9
SB3@3'	10
SB4@1'	11
SB4@3'	12
SB5@1'	13
SB5@3'	14
QC Summary Data	15
QC - Volatile Organics by EPA 8021B	15
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Sample Summary

Logos Resources	Project Name:	Rosa Unit 267	Description
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	11/19/21 11:53

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SB1 Grab Sample Wall	E111098-01A	Soil	11/11/21	11/11/21	Glass Jar, 4 oz.
SB1 Grab Sample Base	E111098-02A	Soil	11/11/21	11/11/21	Glass Jar, 4 oz.
SB2 @1'	E111098-03A	Soil	11/11/21	11/11/21	Glass Jar, 4 oz.
SB2 @3'	E111098-04A	Soil	11/11/21	11/11/21	Glass Jar, 4 oz.
SB3@1'	E111098-05A	Soil	11/11/21	11/11/21	Glass Jar, 4 oz.
SB3@3'	E111098-06A	Soil	11/11/21	11/11/21	Glass Jar, 4 oz.
SB4@1'	E111098-07A	Soil	11/11/21	11/11/21	Glass Jar, 4 oz.
SB4@3'	E111098-08A	Soil	11/11/21	11/11/21	Glass Jar, 4 oz.
SB5@1'	E111098-09A	Soil	11/11/21	11/11/21	Glass Jar, 4 oz.
SB5@3'	E111098-10A	Soil	11/11/21	11/11/21	Glass Jar, 4 oz.



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Sample Data

Logos Resources	Project Name:	Rosa Unit 267		
2010 Afton Place	Project Number:	12035-0114	8	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan		11/19/2021 11:53:34AM

SB1 Grab Sample Wall

E111098-01

A		E111039-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst; IY		Batch: 2146049
Benzene	ND	0.0250	E.	11/12/21	11/19/21	
Ethylbenzene	ND	0.0250	Ī.	11/12/21	11/19/21	
Toluene	ND	0.0250	T	11/12/21	11/19/21	
o-Xylene	ND	0.0250	F	11/12/21	11/19/21	
p,m-Xylene	ND	0.0500	T.	11/12/21	11/19/21	
Total Xylenes	ND	0.0250	Ť	11/12/21	11/19/21	
Surrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: IY		Batch: 2146049
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/19/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	/st: JL		Batch: 2146053
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/15/21	
Oil Range Organics (C28-C36)	ND	50.0	î	11/15/21	11/15/21	
Surrogate: n-Nonane		108 %	50-200	11/15/21	11/15/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2146044



Sample Data

Logos Resources	Project Name:	Rosa Unit 267	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	11/19/2021 11:53:34AM

SB1 Grab Sample Base

E111098-02

	2111070 02				
Danila	Reporting		D1	A 1 J	Nata
Result	Limil	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	t: IY		Batch: 2146049
ND	0.0250	1	11/12/21	11/19/21	
ND	0.0250	1	11/12/21	11/19/21	
ND	0.0250	į.	11/12/21	11/19/21	
ND	0.0250	j.	11/12/21	11/19/21	
ND	0.0500	1	11/12/21	11/19/21	
ND	0.0250	1	11/12/21	11/19/21	
	93.0 %	70-130	11/12/21	11/19/21	
mg/kg	mg/kg	Analys	t: IY		Batch: 2146049
ND	20.0	1	11/12/21	11/19/21	
	106 %	70-130	11/12/21	11/19/21	
mg/kg	mg/kg	Analys	t: JL		Batch: 2146053
ND	25.0	1	11/15/21	11/15/21	
ND	50.0	1	11/15/21	11/15/21	
	95.0 %	50-200	11/15/21	11/15/21	
mg/kg	mg/kg	Analys	t: IY		Batch: 2146044
	ND ND ND ND ND ND Mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 93.0 % mg/kg mg/kg ND 20.0 106 % mg/kg ND 25.0 ND 50.0	Result Limit Dilution mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 mg/kg mg/kg Analys ND 20.0 1 mg/kg mg/kg Analys ND 25.0 1 ND 50.0 1	Result Limit Dilution Prepared mg/kg Analyst; IY ND 0.0250 1 11/12/21 ND 0.0250 1 11/12/21 ND 0.0250 1 11/12/21 ND 0.0250 1 11/12/21 ND 0.0500 1 11/12/21 ND 0.0250 1 11/12/21 mg/kg mg/kg Analyst: IY ND 20.0 1 11/12/21 mg/kg 70-130 11/12/21 mg/kg mg/kg Analyst: IY ND 20.0 1 11/12/21 mg/kg mg/kg Analyst: JL ND 25.0 1 11/15/21 ND 50.0 1 11/15/21	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst; IY II/12/21 II/19/21 ND 0.0250 1 11/12/21 11/19/21 ND 0.0250 1 11/12/21 11/19/21 ND 0.0250 1 11/12/21 11/19/21 ND 0.0500 1 11/12/21 11/19/21 ND 0.0250 1 11/12/21 11/19/21 mg/kg mg/kg Analyst: IY II/19/21 II/19/21 ND 20.0 1 11/12/21 11/19/21 mg/kg mg/kg Analyst: JL II/19/21 ND 25.0 1 11/15/21 11/15/21 ND 50.0 1 11/15/21 11/15/21



Anions by EPA 300.0/9056A

Chloride

Sample Data

Logos Resources Project Name: Rosa Unit 267 2010 Afton Place Project Number: 12035-0114 Reported: 11/19/2021 11:53:34AM Farmington NM, 87401 Project Manager: Robert Jordan

SB2 @1'

E111098-03 Reporting Analyte Result Limit Dilution Analyzed Notes Prepared Analyst: IY Volatile Organics by EPA 8021B mg/kg mg/kg Batch: 2146049 Benzene ND 0.0250 11/12/21 11/19/21 ND 0.0250 1 11/12/21 11/19/21 Ethylbenzene ND 11/12/21 11/19/21 Toluene 0.0250 ND 0.0250 11/12/21 11/19/21 o-Xylene ND 0.0500 11/12/21 11/19/21 p,m-Xylene 11/12/21 11/19/21 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 93.3 % 70-130 11/12/21 11/19/21 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: IY Batch: 2146049 11/12/21 11/19/21 ND 20.0 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 106% 70-130 11/12/21 11/19/21 Batch: 2146053 Nonhalogenated Organics by EPA 8015D - DRO/ORO mg/kg mg/kg Analyst: JL 25.0 11/15/21 11/15/21 Diesel Range Organics (C10-C28) ND 11/15/21 Oil Range Organics (C28-C36) ND 50.0 11/15/21 Surrogate: n-Nonane 11/15/21 11/15/21 98.1 % 50-200

mg/kg 20.0

Analyst: JY

11/12/21

11/13/21

mg/kg

178



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Batch: 2146044

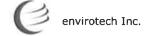
Sample Data

Logos Resources	Project Name:	Rosa Unit 267	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	11/19/2021 11:53:34AM

SB2 @3'

E	11	11	09	8-	04

		Reporting					
Analyte	Result	Limit	Dila	ution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst	ΙΥ		Batch: 2146049
Benzene	ND	0.0250		1	11/12/21	11/19/21	
Ethylbenzene	ND	0.0250		È	11/12/21	11/19/21	
Toluene	ND	0.0250		Û	11/12/21	11/19/21	
o-Xylene	ND	0.0250		Î.	11/12/21	11/19/21	
p,m-Xylene	ND	0.0500		1	11/12/21	11/19/21	
Total Xylenes	ND	0.0250		1	11/12/21	11/19/21	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130		11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch; 2146049
Gasoline Range Organics (C6-C10)	ND	20.0		I.	11/12/21	11/19/21	
Surrogute: 1-Chloro-4-fluorobenzene-FID		105 %	70-130		11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: JL		Batch: 2146053
Diesel Range Organics (C10-C28)	ND	25.0		t)	11/15/21	11/15/21	
Oil Range Organics (C28-C36)	ND	50.0		I,	11/15/21	11/15/21	
Surrogate: n-Nonane		99.2 %	50-200		11/15/21	11/15/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: IY		Batch: 2146044
Allions by El A 300.0/2030A							



Anions by EPA 300.0/9056A

Chloride

Sample Data

Logos Resources	Project Name:	Rosa Unit 267	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	11/19/2021 11:53:34AM

SB3@1'

		E111098-05					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst	:: IY		Batch: 2146049
Benzene	ND	0.0250		1	11/12/21	11/19/21	
Ethylbenzene	ND	0.0250		1	11/12/21	11/19/21	
Toluene	ND	0.0250		1	11/12/21	11/19/21	
o-Xylene	ND	0.0250		1	11/12/21	11/19/21	
p,m-Xylene	ND	0.0500		i	11/12/21	11/19/21	
Total Xylenes	ND	0.0250		j	11/12/21	11/19/21	
Surrogate: 4-Bromochlorobenzene-PID		92.8 %	70-130		11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	g/kg mg/kg		Analyst: IY			Batch: 2146049
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/12/21	11/19/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130		11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	:: JL		Batch: 2146053
Diesel Range Organics (C10-C28)	ND	25.0		1	11/15/21	11/15/21	
Oil Range Organics (C28-C36)	ND	50.0		1	11/15/21	11/15/21	
Surrogate: n-Nonane		106 %	50-200		11/15/21	11/15/21	

mg/kg

20.0

Analyst: IY

11/12/21

11/13/21

mg/kg

138



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Batch: 2146044

Sample Data

Logos Resources	Project Name:	Rosa Unit 267	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	11/19/2021 11:53:34AM

SB3@3'

		E111098-06				
Autor		Reporting				
Analyte	Result	Limit	Dilutior	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2146049
Benzene	ND	0.0250	i.	11/12/21	11/19/21	
Ethylbenzene	ND	0.0250	Ì	11/12/21	11/19/21	
Toluene	ND	0.0250	1.	11/12/21	11/19/21	
o-Xylene	ND	0.0250	E	11/12/21	11/19/21	
p,m-Xylene	ND	0.0500	E.	11/12/21	11/19/21	
Total Xylenes	ND	0.0250	16	11/12/21	11/19/21	
Surrogate: 4-Bromochlorobenzene-PID		92.5 %	70-130	11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2146049
Gasoline Range Organics (C6-C10)	ND	20.0	E	11/12/21	11/19/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2146053
Diesel Range Organics (C10-C28)	ND	25.0	Ū	11/15/21	11/15/21	
Oil Range Organics (C28-C36)	ND	50.0	Û.	11/15/21	11/15/21	
Surrogate: n-Nonane		101 %	50-200	11/15/21	11/15/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2146044
Chloride	121	20.0	1	11/12/21	11/13/21	•



Sample Data

1	Logos Resources	Project Name:	Rosa Unit 267	0.00
ı	2010 Afton Place	Project Number:	12035-0114	Reported:
I	Farmington NM, 87401	Project Manager:	Robert Jordan	11/19/2021 11:53:34AM

SB4@1'

		E111098-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2146049
Вепхепе	ND	0.0250	1	11/12/21	11/19/21	
Ethylbenzene	ND	0.0250	îi:	11/12/21	11/19/21	
Toluene	ND	0.0250	Îtv	11/12/21	11/19/21	
o-Xylene	ND	0.0250	i.	11/12/21	11/19/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/19/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/19/21	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st; IY		Batch: 2146049
Gasoline Range Organics (C6-C10)	ND	20.0	4	11/12/21	11/19/21	_
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	it: JL		Batch; 2146053
Diesel Range Organics (C10-C28)	108	25.0	1	11/15/21	11/15/21	
Oil Range Organics (C28-C36)	274	50.0	1	11/15/21	11/15/21	
Surrogate: n-Nonane		103 %	50-200	11/15/21	11/15/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	et: IY		Batch: 2146044
Chloride	90.1	20.0	1	11/12/21	11/13/21	·



Sample Data

 Logos Resources
 Project Name:
 Rosa Unit 267

 2010 Afton Place
 Project Number:
 12035-0114
 Reported:

 Farmington NM, 87401
 Project Manager:
 Robert Jordan
 11/19/2021
 11/53:34AM

SB4@3'

		E111098-08				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Α	nalyst: IY		Batch: 2146049
Benzene	ND	0.0250	ì	11/12/21	11/19/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/19/21	
Toluene	ND	0.0250	1	11/12/21	11/19/21	
o-Xylene	ND	0.0250	1	11/12/21	11/19/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/19/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/19/21	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: 1Y		Batch: 2146049
Gasoline Range Organics (C6-C10)	ND	20.0		11/12/21	11/19/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2146053
Diesel Range Organics (C10-C28)	29.7	25.0	(4.,	11/15/21	11/15/21	
Oil Range Organics (C28-C36)	72.0	50.0	3.	11/15/21	11/15/21	
Surrogate: n-Nonane		120 %	50-200	11/15/21	11/15/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: IY		Batch: 2146044
Chloride	86.4	20.0	1	11/12/21	11/13/21	



Sample Data

Logos Resources	Project Name:	Rosa Unit 267	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	11/19/2021 11:53:34AM

SB5@1' E111098-09

		E111070-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst; IY		Batch: 2146049
Benzene	ND	0.0250	ı	11/12/21	11/19/21	
Ethylbenzene	ND	0.0250	1	11/12/21	11/19/21	
Toluene	ND	0.0250	1	11/12/21	11/19/21	
o-Xylene	ND	0.0250	1	11/12/21	11/19/21	
p,m-Xylene	ND	0.0500	1	11/12/21	11/19/21	
Total Xylenes	ND	0.0250	1	11/12/21	11/19/21	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: IY		Batch: 2146049
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/21	11/19/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	/st: JL		Batch: 2146053
Diesel Range Organics (C10-C28)	ND	25.0	Î	11/15/21	11/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/15/21	
Surrogate: n-Nonane		120 %	50-200	11/15/21	11/15/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: IY		Batch: 2146044
Chloride	2400	40.0	2	11/12/21	11/13/21	· · · · · · · · · · · · · · · · · · ·



Sample Data

 Logos Resources
 Project Name:
 Rosa Unit 267

 2010 Afton Place
 Project Number:
 12035-0114
 Reported:

 Farmington NM, 87401
 Project Manager:
 Robert Jordan
 11/19/2021 11:53:34AM

SB5@31

E111098-10

		E111070 10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2146049
Benzene	ND	0.0250	ñ	11/12/21	11/19/21	
Ethylbenzene	ND	0.0250	16	11/12/21	11/19/21	
Toluene	ND	0.0250	F.	11/12/21	11/19/21	
o-Xylene	ND	0.0250	1	11/12/21	11/19/21	
p,m-Xylene	ND	0.0500	Ĭ.	11/12/21	11/19/21	
Total Xylenes	ND	0.0250	T.	11/12/21	11/19/21	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2146049
Gasoline Range Organics (C6-C10)	ND	20.0	10	11/12/21	11/19/21	
Surrogute: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	11/12/21	11/19/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2146053
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/21	11/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/21	11/15/21	
Surrogate: n-Nonane		125 %	50-200	11/15/21	11/15/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2146044
Chloride	108	20.0	t,	11/12/21	11/13/21	



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QC Summary Data

Logos Resources	Project Name:	Rosa Unit 267	Reported:
2010 Afton Place	Project Number:	12035-0114	·
Farmington NM, 87401	Project Manager:	Robert Jordan	11/19/2021 11:53:34AM

Farmington NM, 87401		Project Manager	r: Re	obert Jordan				11/19	9/2021 11:53:34A
		Volatile (organics b	y EPA 802	1B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
3lank (2146049-BLK1)							Prepared: 1	1/12/21 Analy	yzed: 11/19/21
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Fotal Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			
LCS (2146049-BS1)							Prepared: I	1/12/21 Analy	yzed: 11/19/21
Benzene	4.76	0.0250	5.00		95.2	70-130			
Ethylbenzene	4.76	0.0250	5.00		95.2	70-130			
Coluene	4.97	0.0250	5.00		99.5	70-130			
-Xylene	4.70	0.0250	5.00		93.9	70-130			
o,m-Xylene	9.63	0.0500	10.0		96.3	70-130			
Total Xylenes	14.3	0.0250	15.0		95.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			
LCS Dup (2146049-BSD1)							Prepared: 1	1/12/21 Analy	yzed: 11/19/21
Benzene	4.72	0.0250	5.00		94.4	70-130	0.821	20	
Ethylbenzene	4.70	0.0250	5.00		94.0	70-130	1,31	20	
Toluene	4.92	0.0250	5.00		98.5	70-130	1.05	20	
-Xylene	4.67	0.0250	5.00		93.3	70-130	0.627	20	
,m-Xylene	9.51	0.0500	10.0		95.1	70-130	1.27	20	
Total Xylenes	14.2	0.0250	15.0		94.5	70-130	1.06	20	
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			



QC Summary Data

Logos Resources	Project Name:	Rosa Unit 267	Reported:
2010 Afton Place	Project Number:	12035-0114	·
Farmington NM, 87401	Project Manager:	Robert Jordan	11/19/2021 11:53:34AM

	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: 1Y
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2146049-BLK1)							Prepared: 1	1/12/21	Analyzed: 11/19/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.53		8.00		107	70-130			
LCS (2146049-BS2)							Prepared: 1	1/12/21	Analyzed: 11/19/21
Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.57		8.00		107	70-130			
LCS Dup (2146049-BSD2)							Prepared: 1	1/12/21	Analyzed: 11/19/21
Gasoline Range Organics (C6-C10)	47.0	20.0	50.0		93.9	70-130	2.01	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		8.00		106	70-130			



QC Summary Data

Logos Resources	Project Name:	Rosa Unit 267	Reported:
2010 Afton Place	Project Number:	12035-0114	-
Farmington NM, 87401	Project Manager:	Robert Jordan	11/19/2021 11:53:34AM

	Nonha	logenated Or	ganics by l	EPA 8015E) - DRO	ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2146053-BLK1)							Prepared: 1	1/15/21	Analyzed: 11/15/21
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50,0							
Surrogale: n-Nonane	59.8		50.0		120	50-200			
LCS (2146053-BS1)							Prepared: 1	1/15/21	Analyzed: 11/15/21
Diesel Range Organics (C10-C28)	541	25.0	500		108	38-132			
Surrogate: n-Nonane	58.8		50.0		118	50-200			
Matrix Spike (2146053-MS1)				Source:	E111109-0	3	Prepared: 1	1/15/21	Analyzed: 11/15/21
Diesel Range Organics (C10-C28)	563	25.0	500	ND	113	38-132			
Surrogate: n-Nonane	60.4		50.0		121	50-200			
Matrix Spike Dup (2146053-MSD1)				Source:	E111109-0	3	Prepared: 1	1/15/21	Analyzed: 11/15/21
Diesel Range Organics (C10-C28)	567	25.0	500	ND	113	38-132	0.636	20	
Surrogate: n-Nonane	60.8		50.0		122	50-200			



envirotech Inc.

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QC Summary Data

		•	
Logos Resources	Project Name:	Rosa Unit 267	Reported:
2010 Afton Place	Project Number:	12035-0114	•
Farmington NM, 87401	Project Manager:	Robert Jordan	11/19/2021 11:53:34AM

F = 1		D : 434	D	1 1 1					11/10/2021 11.62	.2443
Farmington NM, 87401		Project Manager:	K	obert Jordan					11/19/2021 11:53	.54AN
		Anions	by EPA	300.0/9056A					Analyst: IY	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2146044-BLK1)							Prepared:	11/12/21	Analyzed: 11/12/	21
Chloride	ND	20.0								
LCS (2146044-BS1)							Prepared:	11/12/21	Analyzed: 11/13/	21
Chloride	268	20.0	250		107	90-110				
Matrix Spike (2146044-MS1)				Source: E	E111095-0)1	Prepared:	11/12/21	Analyzed: 11/13/2	21
Chloride	1550	40.0	250	2010	NR	80-120			M5	
Matrix Spike Dup (2146044-MSD1)				Source: E	2111095-0)1	Prepared:	11/12/21	Analyzed: 11/13/	21
Chloride	1650	40.0	250	2010	NR	80-120	6.28	20	M5	

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 may differ slightly.

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Definitions and Notes

Logos Resources		Project Name:	Rosa Unit 267	
2010 Afton Place		Project Number:	12035-0114	Reported:
Farmington NM, 87	401	Project Manager:	Robert Jordan	11/19/21 11:53

M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The

accociated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Page 20 of 21

Chain of Custody

		i
Page _	of	

Client: Logos Rosaulces	Bill To				La	ab Us	se On	ılv				T	AT	EPA P	rogram
Project: Ross unit 267 Project Manager: Robolt Jordan	Attention: Robert Jorden	_	Lab I	WQ#			Job	Numl		1	D 2D			CWA	SDWA
Address: 7010 After PICCE	Address: 2010 Affan Place City, State, Zip Farmington NM	China	EI	1100	16	Ш,			-0114						
City, State, Zip Garm. nm 814 pl	Phone: 505-320-1595	P date					Analy	sis ar	d Meth	od		_	_		RCRA
Phone: 905 320-1355	Email:	_	un I	S										State	
Email: Translan @ lagastesartastic con	mflor12@logosicsaucastle	con	801	801	_			e					NMI CC		TX
Report due by:	Etrujillo @ Inosusaure oslic	.can	o b	O D	802	3260	010	윤		П			V 1	UI FAL	1/4
Time Sampled Date Sampled Matrix No. of Contames Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						Remarks	
	bsample wall	1	4	¥	×		Ī	4		T	1				
11:14 11 11 5 1-402 SB1 BYGI	osample base	2	+	Y	K			x							
10:50 11/11 5 1-402 5B 2 @ 1	'	3	¥	7	¥			¥		T					
11:00 11/11 S 1-402 SB Z @ 3		4	¥	×	×			×		Ī					
10:48 11/11 5 1-42 SB 3@1	/	5	4	×	4			x							
11:00 11/11 5 1-42 SB3@	3'	6	X	4	×			x		T					
10:40 11/11 S 1-42 SB 4@ 1	/		X	4	F			4		T					
10:50 11/11 5 1-42 564@3	3'	8	Y	4	¥			×							
10:31 11 11 S 1-42 SB50	(9	4	4	¥			4		Ī					
10:34 11/11 5 1-42 SBSE	3'	10	x	X	4			x							
Additional Instructions:															
 (field sampler), attest to the validity and authenticity of this sample. I am aware date or time of collection is considered fraud and may be grounds for legal action. 	that tampering with or intentionally mislabelling the Sampled by:	Applicate.	3 plane	rl	2	-							rened on ice the day 6 °C on subsequent d		d or received
Relinquished by: (Signeture) CH2 Date 1 Time 1:25		This	1	1,2	:7	5	Rece	ived (on ice:	1	Lab U		ly		
Relinquished by: (Signature) Date Time	Received by: (Signature) Da	ate	-	îme			T1	IVEU (office.	-	_				
Relinquished by: (Signature) Date Time	Received by: (Signature) Da	ate	7	ime				_	٠. (12			<u>T3</u>		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, D - Other	r.	ontainer 1	Type	g . ol	200 -	_		Temp		OF 5	lare :	1/CA			
Note: Samples are discarded 30 days after results are reported unless oth	er arrangements are made. Hazardous sample	es will be r	eturn	ed to	client	or dis	nosec	of at	the clien	er g	ense	The rer	port for the anal	sis of the a	nnve
samples is applicable only to those samples received by the laboratory wi	th this COC. The liability of the laboratory is limi	ited to the	amo	unt pa	id for	on th	е гер	ort.		- 100	-1969		and the area	and or this a	0.45



Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Logos Resources	Date Received:	11/11/21	13:25		Work Order ID:	E111098	
Phone:	(505) 320-1395	Date Logged In:	11/12/21	11:01		Logged In By:	Irene Yazzie	
Email:		Due Date:		17:00 (5 day TA	AT)			
	f Custody (COC)							
	he sample ID match the COC?		Yes					
	he number of samples per sampling site locatio samples dropped off by client or carrier?	m match the Co						
	ne COC complete, i.e., signatures, dates/times, r	requested analy	Yes	Carrier:	Marie Florez			
	all samples received within holding time?	requested analy	Yes					
J. WEIE	Note: Analysis, such as pH which should be conducted. 15 minute hold time, are not included in this dist		168			Comments	s/Resolution	
	Turn Around Time (TAT)							
6. Did th	e COC indicate standard TAT, or Expedited TA	Т?	Yes					
Sample (
	sample cooler received?		No					
_	was cooler received in good condition?		NA					
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes					
10. Were	custody/security seals present?		No					
11. If yes	s, were custody/security seals intact?		NA		1			
12: Was tl	he sample received on ice? If yes, the recorded temp i Note: Thermal preservation is not required, if sampl minutes of sampling							
13. If no	visible ice, record the temperature. Actual sa	ample temperat	ture: 4°	<u>C</u>				
Sample	Container							
	aqueous VOC samples present?		No					
	VOC samples collected in VOA Vials?		NA					
	e head space less than 6-8 mm (pea sized or less	s)?	NA					
	a trip blank (TB) included for VOC analyses?	,	NA					
	non-VOC samples collected in the correct conta	niners?	Yes					
	appropriate volume/weight or number of sample		cteWes					
Field La	bel							
20. Weгe	field sample labels filled out with the minimur	n information:						
	ample ID?		Yes					
	ate/Time Collected?		Yes					
_	ollectors name?		No					
	Preservation the COC or field labels indicate the samples w	rana muagamiad?	N _o					
	sample(s) correctly preserved?	ere preserveu:	' No NA					
	o filteration required and/or requested for dissol	ved metals?	No					
		ved metals.	140					
	ase Sample Matrix	ltimboog?	2.7					
	the sample have more than one phase, i.e., multiple s, does the COC specify which phase(s) is to be		No					
•		analyzeu:	NA					
	ract Laboratory							
	samples required to get sent to a subcontract lab	•	No					
29. Was	a subcontract laboratory specified by the client	and if so who?	? NA	Subcontract L	ab: NA			
Client I	nstruction							

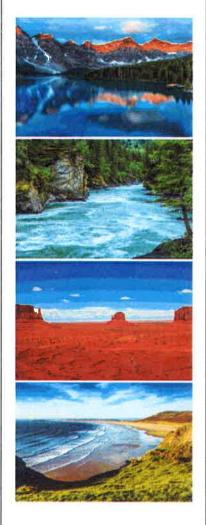
Signature of client authorizing changes to the COC or sample disposition

Cenvirotech Inc. Date

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Printed: 11/12/2021 11:11:27

Report to: Robert Jordan



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Logos Resources

Project Name:

Rosa Unit 267

Work Order:

E112049

Job Number:

12035-0114

Received:

12/9/2021

Released to Imaging: 7/1/2022 2:01:47 PM

Revision: 1

Report Reviewed By:

Walter Hinchman **Laboratory Director** 12/12/21

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 12/12/21

Robert Jordan 2010 Afton Place Farmington, NM 87401

Project Name: Rosa Unit 267

Workorder: E112049

Date Received: 12/9/2021 2:26:00PM

Robert Jordan,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/9/2021 2:26:00PM, under the Project Name: Rosa Unit 267.

The analytical test results summarized in this report with the Project Name: Rosa Unit 267 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director

Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

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Technical Representative/Client Services Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

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Sample Summary

Logos Resources	Project Name:	Rosa Unit 267	Reported:
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	12/12/21 10:11

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SB-4 base	E112049-01A Soil	12/09/21	12/09/21	Glass Jar, 4 oz.
SB-4 wall	E112049-02A Soil	12/09/21	12/09/21	Glass Jar, 4 oz.
SB-5 base	E112049-03A Soil	12/09/21	12/09/21	Glass Jar, 4 oz.
SB-5 wall	E112049-04A Soil	12/09/21	12/09/21	Glass Jar, 4 oz.
SB-6 base	E112049-05A Soil	12/09/21	12/09/21	Glass Jar, 4 oz.



Sample Data

Logos Resources	Project Name:	Rosa Unit 267	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	12/12/2021 10:11:42AM

SB-4 base E112049-01

		E112049-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2150036
Benzene	ND	0.0250	1	12/10/21	12/10/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/10/21	
Toluene	ND	0.0250	14	12/10/21	12/10/21	
o-Xylene	ND	0.0250	1	12/10/21	12/10/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/10/21	
Total Xylenes	ND	0.0250	3	12/10/21	12/10/21	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	12/10/21	12/10/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2150036
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/10/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	12/10/21	12/10/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2150038
Diesel Range Organics (C10-C28)	ND	25.0	4	12/10/21	12/10/21	
Oil Range Organics (C28-C36)	ND_	50.0	4	12/10/21	12/10/21	
Surrogate: n-Nonane		119 %	50-200	12/10/21	12/10/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2150037
Chloride	51.0	20.0	(1)	12/10/21	12/10/21	



Sample Data

 Logos Resources
 Project Name:
 Rosa Unit 267

 2010 Afton Place
 Project Number:
 12035-0114
 Reported:

 Farmington NM, 87401
 Project Manager:
 Robert Jordan
 12/12/2021 10:11:42AM

SB-4 wall E112049-02

		E112049-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2150036
Benzene	ND	0.0250	1	12/10/21	12/10/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/10/21	
Toluene	ND	0.0250	1	12/10/21	12/10/21	
o-Xylene	ND	0.0250	4	12/10/21	12/10/21	
p,m-Xylene	ND	0.0500	i	12/10/21	12/10/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/10/21	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	12/10/21	12/10/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2150036
Gasoline Range Organics (C6-C10)	ND	20.0	3.	12/10/21	12/10/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %	70-130	12/10/21	12/10/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2150038
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/21	12/10/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/21	12/10/21	
Surrogate: n-Nonane		103 %	50-200	12/10/21	12/10/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2150037
Chloride	104	20.0	1	12/10/21	12/10/21	



Sample Data

 Logos Resources
 Project Name:
 Rosa Unit 267

 2010 Afton Place
 Project Number:
 12035-0114
 Reported:

 Farmington NM, 87401
 Project Manager:
 Robert Jordan
 12/12/2021 10:11:42AM

SB-5 base E112049-03

		E112049-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2150036
Benzene	ND	0.0250	ŧ,	12/10/21	12/10/21	
Ethylbenzene	ND	0.0250	1);	12/10/21	12/10/21	
Toluene	ND	0.0250	10	12/10/21	12/10/21	
o-Xylene	ND	0.0250	1)	12/10/21	12/10/21	
p,m-Xylene	ND	0.0500	1)	12/10/21	12/10/21	
Total Xylenes	ND	0.0250	I)	12/10/21	12/10/21	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	12/10/21	12/10/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2150036
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/10/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	70-130	12/10/21	12/10/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2150038
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/21	12/10/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/21	12/10/21	
Surrogate: n-Nonane		114 %	50-200	12/10/21	12/10/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst; IY		Batch: 2150037
Chloride	208	20.0	i	12/10/21	12/10/21	



Sample Data

Logos Resources	Project Name:	Rosa Unit 267	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	12/12/2021 10:11:42AM

SB-5 wall E112049-04

	E112047 04				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: RKS		Batch: 2150036
ND	0,0250	1	12/10/21	12/10/21	
ND	0.0250	1	12/10/21	12/10/21	
ND	0.0250	1	12/10/21	12/10/21	
ND	0.0250	î	12/10/21	12/10/21	
ND	0.0500	i	12/10/21	12/10/21	
ND	0.0250	ì	12/10/21	12/10/21	
	96.9 %	70-130	12/10/21	12/10/21	
mg/kg	mg/kg	Analy	st: RKS		Batch: 2150036
ND	20.0))	12/10/21	12/10/21	
	102 %	70-130	12/10/21	12/10/21	
mg/kg	mg/kg	Analy	st: RKS		Batch: 2150038
ND	25.0	Į.	12/10/21	12/10/21	
ND	50.0	1	12/10/21	12/10/21	
	117 %	50-200	12/10/21	12/10/21	
mg/kg	mg/kg	Analy	st: JY		Batch: 2150037
293	20.0	1	12/10/21	12/10/21	
	mg/kg ND ND ND ND ND ND Mg/kg ND mg/kg ND mg/kg	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0500 ND 0.0250 mg/kg mg/kg ND 20.0 102 % mg/kg ND 25.0 ND 50.0 117 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg Mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 mg/kg mg/kg Analy ND 20.0 1 102 % 70-130 1 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 117 % 50-200 mg/kg Mg/kg Analy	Reporting Mesult Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 12/10/21 ND 0.0250 1 12/10/21 ND 0.0250 1 12/10/21 ND 0.0500 1 12/10/21 ND 0.0250 1 12/10/21 mg/kg 70-130 12/10/21 mg/kg mg/kg Analyst: RKS ND 20.0 1 12/10/21 mg/kg mg/kg Analyst: RKS ND 25.0 1 12/10/21 ND 50.0 1 12/10/21 117 % 50-200 12/10/21 mg/kg Mg/kg Analyst: IY	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 12/10/21 12/10/21 ND 0.0250 1 12/10/21 12/10/21 ND 0.0250 1 12/10/21 12/10/21 ND 0.0500 1 12/10/21 12/10/21 ND 0.0250 1 12/10/21 12/10/21 MD 0.0250 1 12/10/21 12/10/21 mg/kg 70-130 12/10/21 12/10/21 mg/kg mg/kg Analyst: RKS ND 20.0 1 12/10/21 12/10/21 mg/kg mg/kg Analyst: RKS ND 25.0 1 12/10/21 12/10/21 ND 50.0 1 12/10/21 12/10/21 mg/kg mg/kg Analyst: RKS



Sample Data

Logos Resources	Project Name:	Rosa Unit 267	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	12/12/2021 10:11:42AM

SB-6 base E112049-05

		E112047-03				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2150036
Benzene	ND	0.0250	1	12/10/21	12/10/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/10/21	
Toluene	ND	0.0250	1	12/10/21	12/10/21	
o-Xylene	ND	0.0250	1	12/10/21	12/10/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/10/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/10/21	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	12/10/21	12/10/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2150036
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/10/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	12/10/21	12/10/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2150038
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/21	12/10/21	
Oil Range Organics (C28-C36)	ND	50.0	3	12/10/21	12/10/21	
Surrogate: n-Nonane		123 %	50-200	12/10/21	12/10/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2150037
Chloride	49.6	20.0	î	12/10/21	12/10/21	



QC Summary Data

Logos Resources	Project Name:	Rosa Unit 267	Reported:
2010 Afton Place	Project Number:	12035-0114	-
Farmington NM, 87401	Project Manager:	Robert Jordan	12/12/2021 10:11:42AM

Analyte	Volatile Organics by EPA 8021B							Analyst: RKS	
	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2150036-BLK1)						I	repared: 12	2/10/21 Anal	yzed: 12/10/21
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Foluene	ND	0.0250							
-Xylene	ND	0.0250							
o.m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			
LCS (2150036-BS1)						I	Prepared: 1	2/10/21 Anal	yzed: 12/10/21
Benzene	4.92	0.0250	5.00		98.3	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.3	70-130			
Foluene	5.01	0.0250	5.00		100	70-130			
p-Xylene	4.97	0.0250	5.00		99.3	70-130			
o,m-Xylene	9.89	0.0500	10.0		98.9	70-130			
Total Xylenes	14.9	0.0250	15.0		99.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			
LCS Dup (2150036-BSD1)						1	repared: 1	2/10/21 Anal	yzed: 12/10/21
Benzene	4.82	0.0250	5.00		96.5	70-130	1.93	20	
Ethylbenzene	4.79	0.0250	5.00		95.9	70-130	1.51	20	
Toluene	4.93	0.0250	5.00		98.6	70-130	1.59	20	
p-Xylene	4.90	0.0250	5.00		98.0	70-130	1.35	20	
o,m-Xylene	9.75	0.0500	10.0		97.5	70-130	1.41	20	
Total Xylenes	14.7	0.0250	15.0		97.7	70-130	1.39	20	



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QC Summary Data

Logos Resources	Project Name:	Rosa Unit 267	Reported:
2010 Afton Place	Project Number:	12035-0114	•
Farmington NM, 87401	Project Manager:	Robert Jordan	12/12/2021 10:11:42AM

	Non		Analyst: RKS						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPI Lim	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	% -	%	Notes
Blank (2150036-BLK1)							Prepared: 1	2/10/21	Analyzed: 12/10/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			
LCS (2150036-BS2)							Prepared: 1	2/10/21	Analyzed: 12/10/21
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.3	70-130			
LCS Dup (2150036-BSD2)							Prepared: 1	2/10/21	Analyzed: 12/10/21
Gasoline Range Organics (C6-C10)	56.8	20.0	50.0		114	70-130	4.00	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.8	70-130			



QC Summary Data

Logos Resources	Project Name:	Rosa Unit 267	Reported:
2010 Afton Place	Project Number:	12035-0114	•
Farmington NM, 87401	Project Manager:	Robert Jordan	12/12/2021 10:11:42AM

	Nonhalogenated Organics by EPA 8015D - DRO/ORO								
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2150038-BLK1)							Prepared: 1	2/10/21	Analyzed: 12/10/21
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogale: n-Nonane	61.0		50.0		122	50-200			
LCS (2150038-BS1)							Prepared: 1	2/10/21	Analyzed: 12/10/21
Diesel Range Organics (C10-C28)	572	25.0	500		114	38-132			
Surrogate: n-Nonane	59.6		50.0		119	50-200			
Matrix Spike (2150038-MS1)				Source:	E112049-	04	Prepared: 1	2/10/21	Analyzed: 12/10/21
Diesel Range Organics (C10-C28)	594	25.0	500	ND	119	38-132			
Surrogale: n-Nonane	60.4		50.0		121	50-200			
Matrix Spike Dup (2150038-MSD1)				Source:	E112049-	04	Prepared: 1	2/10/21	Analyzed: 12/10/21
Diesel Range Organics (C10-C28)	572	25.0	500	ND	114	38-132	3.82	20	
Surrogate: n-Nonane	58.8		50.0		118	50-200			



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QC Summary Data

Logos Resources	Project Name:	Rosa Unit 267	Reported:
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	12/12/2021 10:11:42AM

Farmington NM, 87401		Project Manager	: R	obert Jordan				1	2/12/2021 10:11:42AM
		Anions by EPA 300.0/9056A							Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2150037-BLK1)							Prepared: 1	2/10/21 A	nalyzed: 12/10/21
Chloride	ND	20.0							
LCS (2150037-BS1)							Prepared: 1	2/10/21 A	nalyzed: 12/10/21
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2150037-MS1)				Source: 1	E112049-0)2	Prepared: 1	2/10/21 A	nalyzed: 12/10/21
Chloride	345	20.0	250	104	96.3	80-120			
Matrix Spike Dup (2150037-MSD1)				Source: 1	E11 2049- 0)2	Prepared: 1	2/10/21 A	nalyzed: 12/10/21
Chloride	346	20.0	250	104	96.7	80-120	0.259	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 may differ slightly.



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Definitions and Notes

ſ	Logos Resources	Project Name:	Rosa Unit 267	
ı	2010 Afton Place	Project Number:	12035-0114	Reported:
	Farmington NM, 87401	Project Manager:	Robert Jordan	12/12/21 10:11

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Project Information

Chain of Custody

Page	1	of	1	
rage		UI		

Client: LOGOS Resources II, LLC	Bill To				La	b Us	se On	ly	144	10	TAT	E	PA Progra	ım
Project: Rosa Unit 267	Attention: Robert Jordan	_	Lab \	WO#		379	dot				/3D	RCRA	CWA	SDWA
Project Manager: Robert Jordan	Address: 2010 Afton Place		PE	WO#	204	19	12	035	5-01	4/				
Address: 2010 Afton Place	City, State, Zip Farmington NM 8740	01					Analy	sis ar	nd Meth	nod *			Sta	
City, State, Zip Farmington, NM 87401	Phone: 505-324-4145												NM CO	UT AZ
Phone: 505-320-1395	rbixler@logosresourcesllc.com		215	215										
Email: rjordan@logosresourcesllc.com	etrujillo@logosresourcesllc.com		φ Δ	96	171	9	0	0.0					TX OK	
Report due by: 12/10 00 12/10	Mflorez@logosresourcesllc.com		8	8	y 80	, 82i	601	Je 3(
Time Sampled Date Sampled Matrix Sample I	N	Lab lumber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					Rem	narks
	15 E	1	x	х	x			х						
	411	2	х	х	x			х						
	456	3	х	х	x			х						
V, 12/9/2021 S 1-40z jar SB-5	14/1	4	х	х	x			х						
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96 -														
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														3.30
Additional Instructions:														
I, (field sampler), attest to the validity and authenticity of this sample. I am time of collection is considered fraud and may be grounds for legal action.	are that tampering with or intentionally mislabelling the sample location, da	are or	٠										rday they are sar subsequent days	npled or
Relinquished by, (Signature) Date 1292	Received by: (Signature)	dek	1	Time	::0	Olo	Rece	elved	on ice:		ab Us	e Only	110	
Relinquished by (Signature) Date	Received by: (Signature) Date			Time			T1			T2			ТЗ	
Relinquished by: (Signature) Date	me Received by: (Signature) Date	ite		Time			AVG	Tem	p°C	4				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Oth	Co	ontainer 1	Type	g-g	ass,	_	_			ber gl	955, V -	VOA		
	other arrangements are made. Hazardous samples will be returne liability of the laboratory is limited to the amount paid for on the re		or disp	posed o	of at th	ne clier	nt expe	nse. T	he report	for the	analysis	of the above	samples is ap	oplicable

Cenvirotech

5795 US Highway 64, Farmington, NY 87961

Ph (505) 532-1881 Fx (505) 632-1855

en virotech-ind com
labadmin@en virotech-ind com

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks. If we receive no response concerning these items within

	i analyses?	12/09/21 12/10/21 Yes Yes Yes Yes Yes	. 17:00 (1 day TA	T)	Logged In By:	Jessica Liesse	
sample ID match the COC? number of samples per sampling site location match ples dropped off by client or carrier? OC complete, i.e., signatures, dates/times, requested amples received within holding time? ote: Analysis, such as pH which should be conducted in the e, 15 minute hold time, are not included in this disucssion. n Around Time (TAT)	the COC	Yes Yes Yes					
sample ID match the COC? number of samples per sampling site location match ples dropped off by client or carrier? OC complete, i.e., signatures, dates/times, requested amples received within holding time? ote: Analysis, such as pH which should be conducted in the e, 15 minute hold time, are not included in this disucssion. n Around Time (TAT)	i analyses?	Yes Yes Yes	Carrie	:: Marie Florez			
number of samples per sampling site location match ples dropped off by client or carrier? OC complete, i.e., signatures, dates/times, requested amples received within holding time? ote: Analysis, such as pH which should be conducted in the e, 15 minute hold time, are not included in this disucssion. n Around Time (TAT)	i analyses?	Yes Yes Yes	Carrie	r: Marie Florez			
ples dropped off by client or carrier? OC complete, i.e., signatures, dates/times, requested amples received within holding time? ote: Analysis, such as pH which should be conducted in the e, 15 minute hold time, are not included in this disucssion. n Around Time (TAT)	i analyses?	Yes Yes	Carrie	r: Marie Florez			
OC complete, i.e., signatures, dates/times, requested amples received within holding time? fote: Analysis, such as pH which should be conducted in the e, 15 minute hold time, are not included in this disucssion. n Around Time (TAT)		Yes	Carrie	: Marie Florez			
amples received within holding time? ote: Analysis, such as pH which should be conducted in the, 15 minute hold time, are not included in this disucssion. Around Time (TAT)							
ote: Analysis, such as pH which should be conducted in the e, 15 minute hold time, are not included in this disucssion. n Around Time (TAT)	e field,	Yes					
n Around Time (TAT)					Commen	ts/Resolution	
		Yes					
pple cooler received?		Yes					
s cooler received in good condition?		Yes					
ample(s) received intact, i.e., not broken?		Yes					
stody/security seals present?		No					
ere custody/security seals intact?							
ote: Thermal preservation is not required, if samples are re- inutes of sampling	ceived w/i 15	Yes					
	nperature: 4°	C					
		No					
-							
•							
•							
•	collected?	Yes					
d sample labels filled out with the minimum inform	ation:	Yes					
		Yes					
ectors name?		Yes					
ervation							
COC or field labels indicate the samples were prese	rved?	No					
		NA					
eration required and/or requested for dissolved meta	ls?	No					
		No					
es the COC specify which phase(s) is to be analyzed	1?	NA					
Laboratory							
oles required to get sent to a subcontract laboratory?		No					
bcontract laboratory specified by the client and if so	who?	NA	Subcontract l	ab: n/a			
ruction							
	lote: Thermal preservation is not required, if samples are reminutes of sampling lible ice, record the temperature. Actual sample tentisliner. Louis VOC samples present? C samples collected in VOA Vials? ad space less than 6-8 mm (pea sized or less)? p blank (TB) included for VOC analyses? VOC samples collected in the correct containers? propriate volume/weight or number of sample containers? Id sample labels filled out with the minimum informable ID? VTime Collected? ectors name? servation. COC or field labels indicate the samples were presepte(s) correctly preserved? teration required and/or requested for dissolved metals Sample Matrix. Is sample have more than one phase, i.e., multiphase? Does the COC specify which phase(s) is to be analyzed the Laboratory. Poles required to get sent to a subcontract laboratory?	ample cooler received? s cooler received in good condition? ample(s) received intact, i.e., not broken? stody/security seals present? ere custody/security seals intact? ample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C lote: Thermal preservation is not required, if samples are received w/i 15 innutes of sampling ible ice, record the temperature. Actual sample temperature: 4° ttainer bous VOC samples present? C samples collected in VOA Vials? ad space less than 6-8 mm (pea sized or less)? p blank (TB) included for VOC analyses? VOC samples collected in the correct containers? propriate volume/weight or number of sample containers collected? Id sample labels filled out with the minimum information: ple ID? VTime Collected? ectors name? servation c COC or field labels indicate the samples were preserved? ple(s) correctly preserved? teration required and/or requested for dissolved metals? Sample Matrix sample have more than one phase, i.e., multiphase? pees the COC specify which phase(s) is to be analyzed? t Laboratory ples required to get sent to a subcontract laboratory? ples required to get sent to a subcontract laboratory? becontract laboratory specified by the client and if so who?	ample cooler received? s cooler received in good condition? stody/security seals present? stody/security seals present? stody/security seals intact? sumple received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C tote: Thermal preservation is not required, if samples are received w/i 15 simutes of sampling ible ice, record the temperature. Actual sample temperature: 4°C stainer tous VOC samples present? C samples collected in VOA Vials? and space less than 6-8 mm (pea sized or less)? Poblank (TB) included for VOC analyses? NA VOC samples collected in the correct containers? reopriate volume/weight or number of sample containers collected? Id sample labels filled out with the minimum information: ple ID? Ves Vocanalyses Cocor field labels indicate the samples were preserved? Poble(s) correctly preserved? Sample Matrix I sample have more than one phase, i.e., multiphase? No Sample Matrix I sample have more than one phase, i.e., multiphase? No becontract laboratory specified by the client and if so who? No No No No No No No No No	ample cooler received? s cooler received in good condition? stample(s) received intact, i.e., not broken? stody/security seals present? stody/security seals intact? sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C yes lote: Thermal preservation is not required, if samples are received w/i 15 simutes of sampling ible ice, record the temperature. Actual sample temperature: 4°C trainer sous VOC samples present? C samples collected in VOA Vials? ad space less than 6-8 mm (pea sized or less)? p blank (TB) included for VOC analyses? VOC samples collected in the correct containers? repriste volume/weight or number of sample containers collected? yes ropriste volume/weight or number of sample containers collected? Yes volume/weight or number of sample containers collected? Yes volume/collected? yes ple(s) correctly preserved? yes ple(s) correctly preserved? ple(s) correctly preserved? teration required and/or requested for dissolved metals? No Sample have more than one phase, i.e., multiphase? No sample have more than one phase(s) is to be analyzed? k Laboratory ples required to get sent to a subcontract laboratory? No Subcontract I	puple cooler received? s cooler received in good condition? s cooler received in good condition? s cooler received in good condition? stoody/security seals present? Pooler cere custody/security seals intact? sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C lote: Thermal preservation is not required, if samples are received w/i 15 simutes of sampling bible ice, record the temperature. Actual sample temperature: 4°C tasinger No Camples collected in VOA Vials? Ad space less than 6-8 mm (pea sized or less)? NA p blank (TB) included for VOC analyses? NOC samples collected in the correct containers? ves ropriste volume/weight or number of sample containers collected? Ves coll dample labels filled out with the minimum information: ple ID? Virime Collected? ves vervation COC or field labels indicate the samples were preserved? No ple(s) correctly preserved? No ple(s) correctly preserved? No sample have more than one phase, i.e., multiphase? No sample have more than one phase, i.e., multiphase? No sample have more than one phase, i.e., multiphase? No sample sequired to get sent to a subcontract laboratory? ples required to get sent to a subcontract laboratory? No Subcontract Lab: n/a	apple cooler received? s cooler received in good condition? spanple(s) received intact, i.e., not broken? station is cooler received in good condition? spanple cooler received intact, i.e., not broken? spanple cooler received intact, i.e., not broken? spanple received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C spanple received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C tote: Thermal preservation is not required, if samples are received w/i 15 simules of sampling bible ice, record the temperature. Actual sample temperature: 4°C tainer tous VOC samples present? No samples collected in VOA Vials? at spane less than 6-8 mm (pea sized or less)? NA p blank (TB) included for VOC analyses? NA VOC samples collected in the correct containers? Yes ropriste volume/weight or number of sample containers collected? Yes correctly elected? yes vectors name? yes servation COC or field labels indicate the samples were preserved? No ple(s) correctly preserved? No sample Matrix sample have more than one phase, i.e., multiphase? No sample Matrix sample have more than one phase, i.e., multiphase? No servation sample have more than one phase, i.e., multiphase? No bees the COC specify which phase(s) is to be analyzed? NA Laboratory ples required to get sent to a subcontract laboratory? No becontract Laboratory specified by the client and if so who? NA Subcontract Lab: n/a	sple cooler received? s cooler received in good condition? s cooler received in good condition? stody/security seals present? No ere custody/security seals present? No ore custody/security seals intact? NA mple received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C yes tooler. Thermal preservation is not required, if samples are received w/i 15 initiate of sampling ble ice, record the temperature. Actual sample temperature: 4°C tatiner. outs VOC samples present? No C samples collected in VOA Vials? NA ald space less than 6-8 mm (pes sized or less)? NA VOC samples collected in the correct containers? Yes ropriste volume/weight or number of sample containers collected? Yes ropriste volume/weight or number of sample containers collected? Yes Yes Servation. COC or field labels indicate the samples were preserved? NA Pole(s) correctly preserved? NA Pole(s) correctly preserved? NA Pole(s) correctly preserved? NA Poseration required and/or requested for dissolved metals? No Sample Matrix. sample have more than one phase, i.e., multiphase? No Sample Matrix sample have more than one phase, i.e., multiphase? No Sample sceptify which phase(s) is to be analyzed? NA Liaboratory. Poles required to get sent to a subcontract laboratory? No becontract laboratory specified by the client and if so who? NA Subcontract Lab: n/a



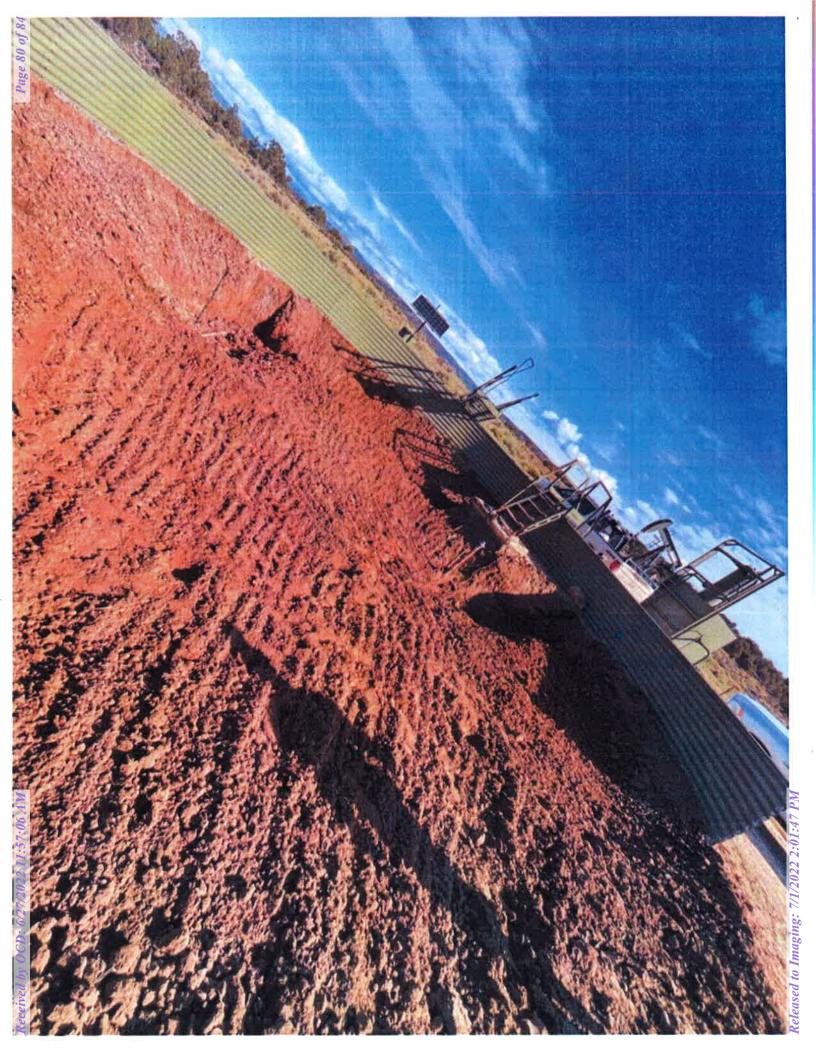
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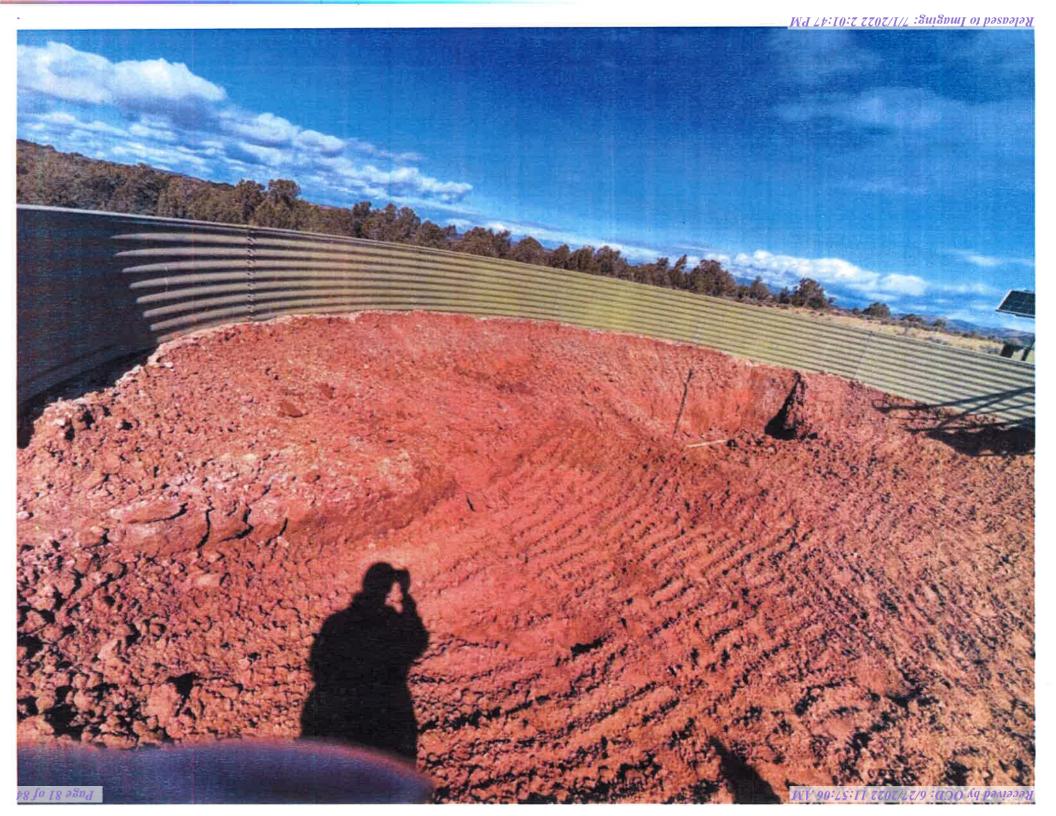
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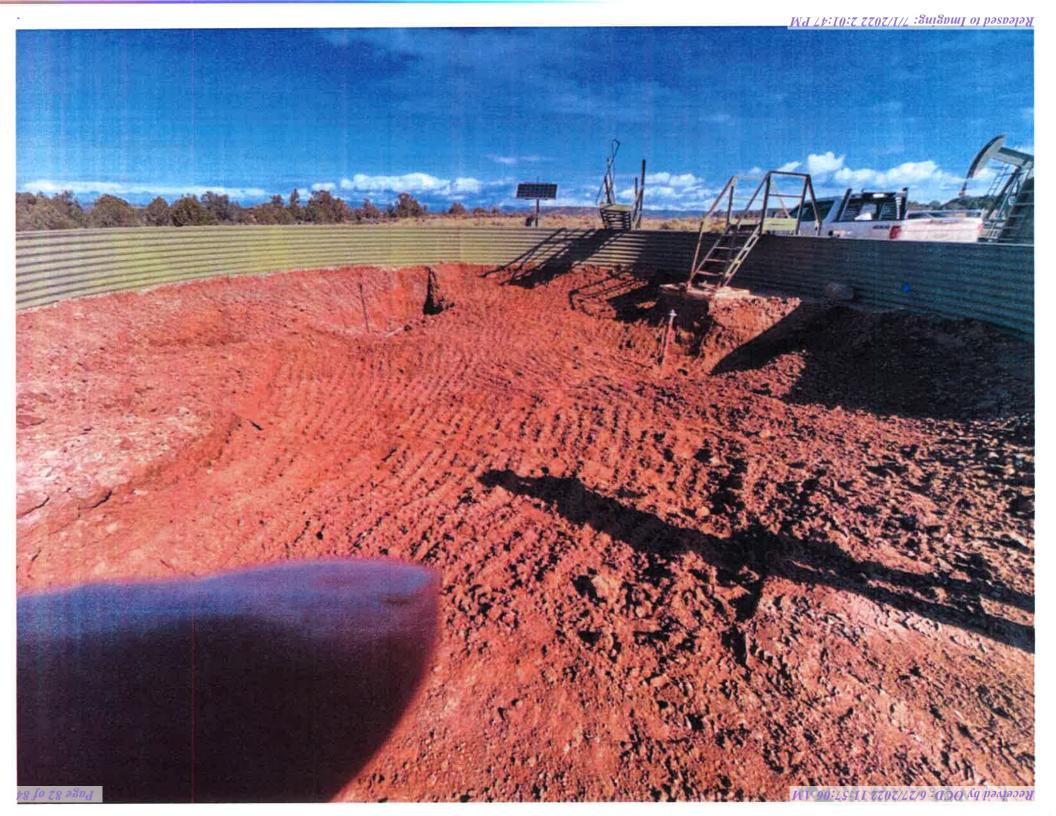
LOGOS OPERATING, LLC.

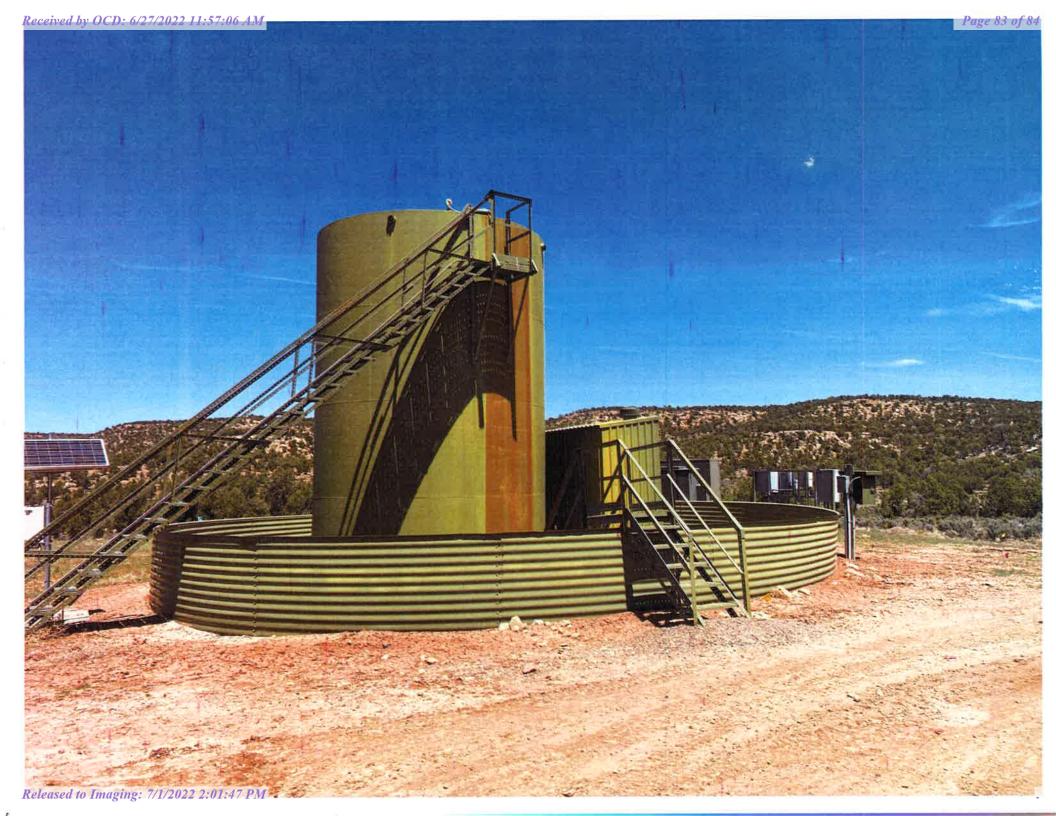
ROSA UNIT #267 FTC
NMSF-078769
API NO. 30-039-25012
1115' FSL & 1200' FWL
SEC.28 T31N RO5W NMPM
RIO ARRIBA COUNTY, NM
LAT: 36.86646 LONG: 107.37241

EMERGENCY CONTACT # 1-866-598-6220









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

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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 120661

CONDITIONS

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	120661
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	7/1/2022