District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

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Incident ID	ncs1929540748
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party LOGOS Operating, LLC	OGRID 289408	
Contact Name Marie E. Florez	Contact Telephone 505-419-8420	
Contact email mflorez@logosresourcesllc.com	Incident # (assigned by OCD) ncs1929540748	
Contact mailing address 2010 Afton Place, Farmington NM 87401		

Location of Release Source

Latitude 36.8814392

Longitude -107.2900925 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Rosa Unit 354A	Site Type Well
Date Release Discovered 9/6/2019	API# (if applicable) 30-039-27832

Unit Letter	Section	Township	Range	County
Ι	19	31N	R4W	Rio Arriba

Surface Owner: State X Federal Tribal Private (Name: _

Nature and Volume of Release

Materia	l(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)	
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)	
X Produced Water	Volume Released (bbls) >5bbls	Volume Recovered (bbls) 1bbl	
	Is the concentration of dissolved chloride in the	Yes No	
	produced water >10,000 mg/l?		
Condensate	Volume Released (bbls)	Volume Recovered (bbls)	
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	

Cause of Release Correction to the submittal on 10/02/2019.

The cause of the release was due to signs of recent stuffing box leak, per OCD inspector estimated volume release was greater than 5bbls.

The release ran off location down side of access road towards storm water catchement with culvert. At the time, the well head cellar contained approximately 1bbl of fluids. The release was not leaking at the time the inspector found it.

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Incident ID	ncs1929540748
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
Yes 🗴 No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \mathbf{X} The source of the release has been stopped.

 \mathbf{X} The impacted area has been secured to protect human health and the environment.

X Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

X All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Marie E. Florez	Title: <u>Regulatory Specialist</u>
Signature: <u>Marie FLorez</u> email: <u>mflorez@logosresourcesllc.com</u>	Date: <u>06/15/2021</u> Telephone: <u>505-419-8420</u>
OCD Only	
Received by:	Date:

Received by OCD: 6/17/2021 11:57:48 AM Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID	ncs1929540748
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>93'</u> (ft bgs)
Did this release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	X Yes 🗌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🕱 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗶 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🕱 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗶 No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗽 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes 🗴 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🕱 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗴 Yes 🗌 No

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

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

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

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

Received by OCD: 6/17/20	021 11:57:48 AM State of New Mex	ino		Page 4 of .
			Incident ID	ncs1929540748
Page 4 Oil Conservation I		V1S10n	District RP	
			Facility ID	
			Application ID	
regulations all operators are public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: <u>Marie</u> Signature: <u>Marie</u> email: <u>mflorez@logo</u>	ormation given above is true and complete required to report and/or file certain reliment. The acceptance of a C-141 report gate and remediate contamination that pof a C-141 report does not relieve the op <u>E. Florez</u> <u>sresourcesllc.com</u>	lease notifications and perfort t by the OCD does not relie ose a threat to groundwater, perator of responsibility for o Title: R Date:6/15/20	orm corrective actions for releve the operator of liability sh surface water, human health compliance with any other fe egulatory Specialist	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by:		Date:		

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Oil Conservation Division

Incident ID	
District RP	
Facility ID	
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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Marie E.Florez Title: Regulatory Specialist Signature: Marie FLorez Date: 6/15/2021 email: mflorez@logosresourcesllc.com Telephone: 505-419-8420 **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

 Closure Approved by:
 Nelson Velez
 Date:
 01/21/2022

 Printed Name:
 Nelson Velez
 Title:
 Environment

 Title: Environmental Specialist – Adv



June 16, 2021

Cory Smith New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

Incident # nCS1929540748

RE: Signs of recent stuffing box leak, estimate volume was greater than 5 bbls, release ran off location downside of access road towards storm water catchment with culvert. Well head cellar still contains approximately 1 bbl of fluids. Not currently leaking. Rosa Unit 354A well site. Located in Section 19, Township 31 North, Range 4 West, Unit I Rio Arriba, New Mexico.

Dear Mr. Smith,

On September 9, 2019, LOGOS Operating, LLC cleaned up the remainder of the storm water from stuffing box and from the contaminated soil. The affected area was treated with (1) 50lb bag of Gypsum, spread and raked in the soil.

Notification for final sampling was requested to be performed on October 9, 2019. The samples were above remediation level. The first results for SS1 identified the Chloride content @ 612 mg/kg and SS2 identified the Chloride content @ 602 mg/kg which is above the remediation level of 600 mg/kg. The delineation was not shown in this report due to change in staff and lost files.

Unsure if notification request was submitted for confirmation sample taken on November 9, 2019. The samples were below remediation level. The second result for SS1 identified the Chloride content @ ND mg/kg and results for SS2 identified the Chloride content @ 114 mg/kg which is below the remediation level of 600 mg/kg. The delineation was not shown in this report.

The application was rejected on April 21, 2020 thru email by NMOCD due to closure report does not meet requirements of 19.15.29.12 NMAC executive summary, also does not match sample results/dates, no sampling notice attached/provided.

On May 1, 2020, LOGOS went to location and re-treated the affected area with (1) 50lb bag of Gypsum, spread and raked in the soil.

LOGOS had not submitted the closure report due to change in staff, environmental learning curves and workload.

Notification for final sampling was requested to be performed on December 29, 2021. The final confirmation testing was cancelled, and LOGOS notified NMOCD due to weather and frozen ground.

Notification for final sampling was requested once again to be performed on March 9, 2021. The three of the 4 samples passed and one failed.

Soil samples were collected at 1-foot intervals in each boring.

SC-1@1'	SC-3@1'
SC-1@3'	SC-3@3'

The 2 sets of samples were placed into a ziplock back then into individual laboratory 4-ounce jars, capped head space free and transported on ice to Envirotech. The samples were analyzed for TPH as gasoline diesel, and oil range organics (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.

	Final Sample Results							
Sample	Date	Sample	EPA Met	hod 8015	EPA Met	hod 8021	EPA Met	hod 300.0
Description		Depth	GRO	DRO	ORO	Benzene	Total	Chlorides
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX	(mg/kg)
							(mg/kg)	
19.15.29.13 (D) NMAC 100 mg/kg		5	10	50	600			
					mg/kg	mg/kg	mg/kg	
19.15	5.29.12 NMA	C	1000 mg/kg				10,000	
			2500 mg/kg				mg/kg	
SC-1 @ 1'	3/18/2021	1 foot	ND	ND	ND	ND	ND	<mark>878</mark>
SC-1 @ 3'	3/18/2021	3 foot	ND	ND	ND	ND	ND	83.2
SC-2 @ 1'	3/18/2021	1 foot	ND	ND	50.3	ND	ND	406
SC-2 @ 3'	3/18/2021	3 foot	ND	ND	ND	ND	ND	98.1

3/23/2021 – Notified OCD to request an extension to re-treat SC-1 @ 1' due to high levels. LOGOS was denied for an additional extension. OCD informed LOGOS to begin remediation.

4/8/2021 -LOGOS scheduled with Kelley Oilfield Services and began remediation within the SS1 area, by digging down to two feet with a backhoe along contaminated area, removed and disposed 10 yards of contaminated soil at Industrial Ecosystems INC., (IEI) landfarm. The spill path for the remediated area is identified in the red box on the Ariel map.

4/19/2021-Notification for final confirmation sampling was requested to the surface owner (BLM) and OCD to be performed on Wednesday, 4/21/2021.

4/21/2021 - A composite grab sample was collected at two feet along the contaminated area after remediation was complete. The samples were placed in a Ziplock bag then placed into an individual laboratory 4-ounce jars, capped head space free and transported on ice to Envirotech. The samples were analyzed for TPH as gasoline diesel, and oil range organics (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.

	Final Sample Results							
Sample	Date	Sample	EPA Met	hod 8015	EPA Met	hod 8021	d 8021 EPA Method 300.	
Description		Depth	GRO	DRO	ORO	Benzene	Total	Chlorides
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX	(mg/kg)
							(mg/kg)	
19.15.29.13 (D) NMAC		100 mg/kg		10	50	600		
						mg/kg	mg/kg	mg/kg
19.15.29.12 NMAC		1000 mg/kg					10,000	
			2500 mg/kg				mg/kg	
Grab	4/21/2021	2 feet	ND	ND	ND	ND	ND	64.2
sample								

The release in the SS2 area was sampled and passed on 3/11/21. The release was remediated down to 2' in SS 1 Area and passed on 4/21/2021. The depth to groundwater was assessed as being 93 feet. The groundwater data is documented in the enclosed TOPO Site Criteria. The Rosa Unit 43-Cathodic well was drilled to 500' and identified GW @ 80' with an elevation of 6572' and an elevation for the Rosa Unit 354A is at 6585' with an estimated GW > 93'.

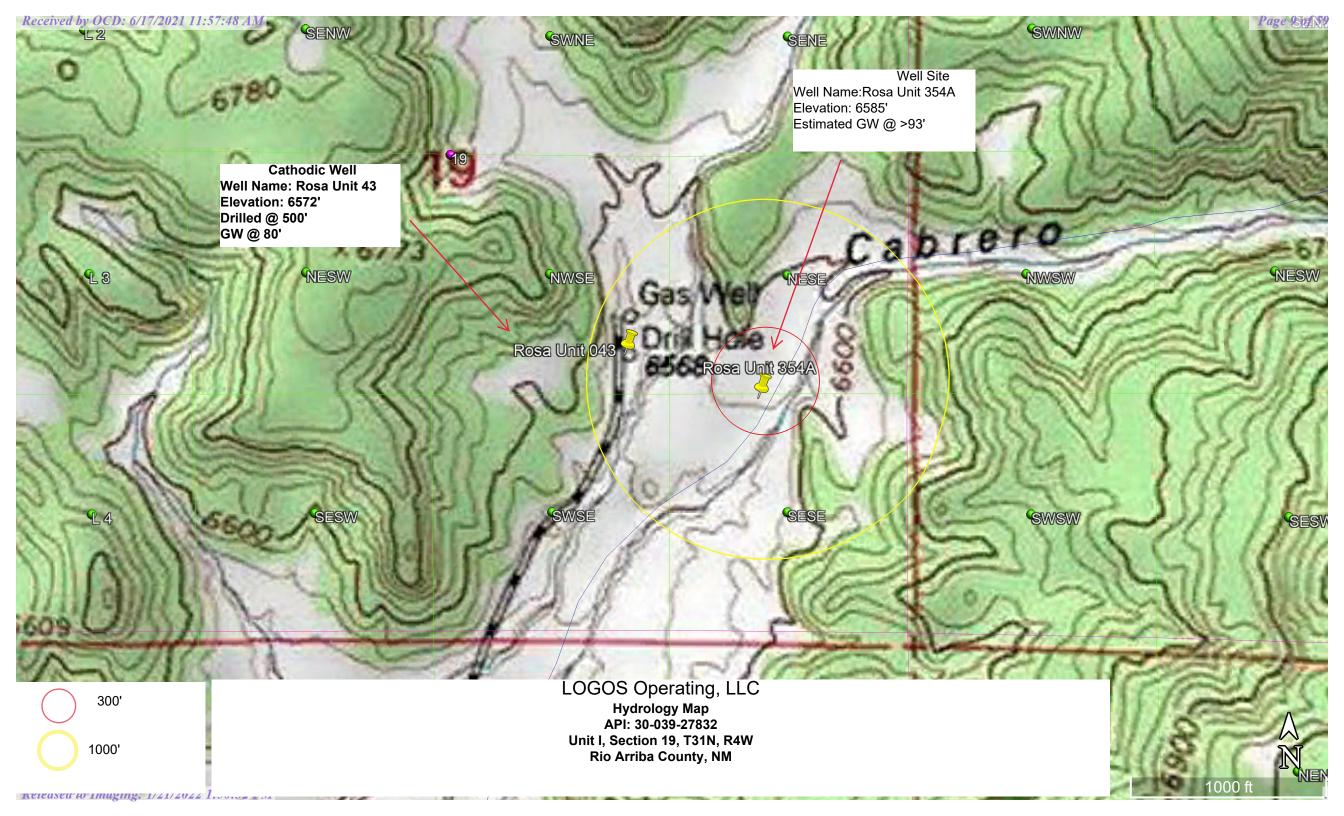
Therefore, based on the gypsum treatments and remediation on SS1 and the laboratory analytical results confirms that concentrations of contaminants are below the applicable release, remediation/reclamation limits and no further action is required. LOGOS request a release and remediation/reclamation closure approval from NMOCD.

Sincerely,

Marie FLorez

Marie E. Florez Regulatory Specialist Cell: 505-419-8420 <u>mflorez@logosresourcesllc.com</u>

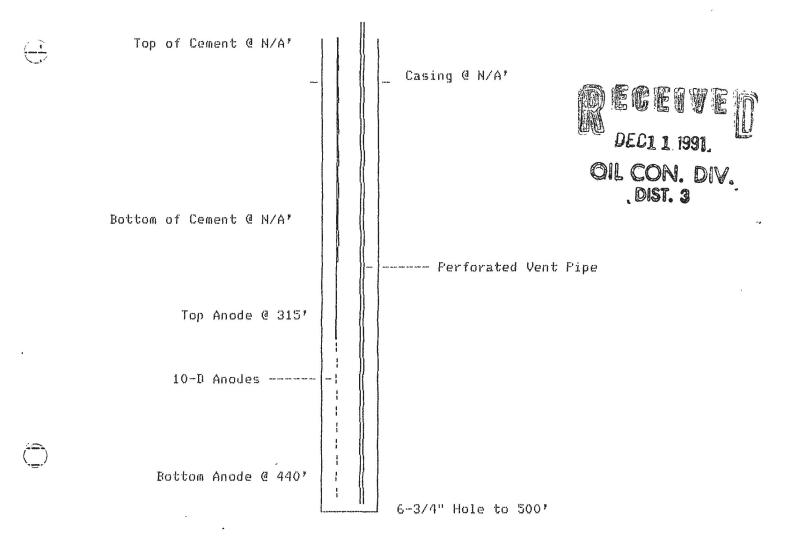




di -- 11

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS IN NORTHWEST NEW MEXICO

ERATOR: Williams Production Company LOCATION: J 19 31 4 LEASE NUMBER: SF-078889
NAME OF WELL/WELLS OR PIPELINE SERVICED: ROSA UNIT #043 DK 30-039-07954
DUALWELL N/A
ELEVATION: 6572' GR COMPLETION DATE: 10/20/87 TUTAL DEPTH: S00 ft. LAND TYPE: FED
CASING: 7-5/8" 26.4# K-55 Set @ N/A ft. Casing is not cemented.
CEMENT PLUG--Top:N/A' Bottom: N/A' Used 0 sx. Class "B" (1.18 cu.ft./sk).
WATER DEPTH: 80 ' Water zone thickness not available. WATER DESCRIPTION: Fresh
DEPTH OF GAS: N/A '
COKE: 6345 lbs. of Metalurgical coke breeze used.
NUMBER & TYPE OF ANODES: 10-D TOP ANODE @ 315 ft. BOTTOM ANODE @ 440 ft.
VENT FIPE: 1" PVC Set @ 500 ft. Vent pipe perforated from 295 ft. to 500 ft.
REMARKS:





LOGOS Opearting, LLC

API: 30-039-27832 Unit I, Section 19, T31N, R4W Lat/Long: 36.8814392; -107.2900925 NAD83 Rio Arriba County, NM

Rosa354

SS 2 Area SC-2 @ 1' SC- 2 @ 3' Passed 3/11/2021 SS 1 Area Remediated & removed contaminated soil @ 2' Passed 4/21/2021 Page 11 of 59

N

Google Earth Released to Imaging: 1/21/2022 1:50:32 PM

Received by	<i>OCD</i> :	6/17/2021	11:57:48 AM
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Field Notes for Spill Closure

Well Name:	Rosa Unit 354A
Date of Arrival:	3/18/2021
Observe Area	
	Removed contaminated soils X Yes No
	What chemical was used to clean-up contaminated area:
	gypsum, 1 50lb spread and raked into affected area
Take Picture:	X Before X After
Entire Spill Containment:	X Dry Wet
	If wet: Rain, Moist, etc
Site Delineation	
	Sample 1:Composite (Grab Sample)YesNo
	Was (2) five-point sample taken: Yes No
	Sample 2:Delineation (Hand Auger)YesNo
	Depths SB - 1 X 1' 2' X 3' 4'
	SB - 2 X 1' 2' X 3' 4'
	SB - 3 1' 2' 3' 4'
	SB - 4 1' 2' 3' 4'
<u>Soil</u>	Did soil have odor: Yes X No
	No order
	Was soil discolored: x Yes No
	Was the soil sandy: Yes X No

Received l	by OCD:	6/17/2021	11:57:48	AM
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Field Notes for Spill Closure

Well Name:	Rosa	Unit 354A
Date of Arrival:	4/21/2021	
Observe Area		
	Removed contaminated soils	x Yes No
	What chemical was used to cle	an-up contaminated area:
		, 1 50lb spread and raked into affected area ated 4/8/2021 then re-sampled SS1
Take Picture:	x Before	x After
Entire Spill Containment:	x Dry	Wet
	If wet: Rain, Moist, etc	
Site Delineation		
x	Sample 1: Composite (Grab Sample)	x Yes No
	Was (2) five-point sample taker	n: Yes No
	Sample 2:	
	Delineation (Hand Auger)	Yes No
	Depths SB - 1	<u> </u>
	SB - 2	<u> </u>
	SB - 3	1' 2' 3' 4'
	SB - 4	1' 2' 3' 4'
<u>Soil</u>	Did soil have odor: If so, what	Yes X No kind of odor:
	Nc	order
	Was soil discolored: If so, what	x Yes No
	Was the soil sandy:	Yes x No

Received	by	OCD:	6/17/2021	11:57:48 AM
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Field Notes for Spill Closure

Well Name:	Rosa Unit 354A
Date of Arrival:	5/1/2019
Observe Area	
	Removed contaminated soils x Yes No
	What chemical was used to clean-up contaminated area:
	gypsum, 1 50lb spread and raked into affected area
Take Picture:	x Before x After
Entire Spill Containment:	X Dry Wet
	If wet: Rain, Moist, etc
Site Delineation	
	Sample 1:Composite (Grab Sample)xYesNo
	Was (2) five-point sample taken: Yes No
	Sample 2: Delineation (Hand Auger) Yes No
	Depths SB - 1 1' 2' 3' 4'
	SB - 2 1' 2' 3' 4'
	SB - 3 1' 2' 3' 4'
	SB - 4 1' 2' 3' 4'
<u>Soil</u>	Did soil have odor: Yes X No If so, what kind of odor:
	Was soil discolored: x Yes No If so, what color:
	dark soil
	Was the soil sandy: Yes X No

Released to Imaging: 1/21/2022 1:50:32 PM

From:	Marie Florez
То:	Smith, Cory, EMNRD; Chase Polledo; Joyner, Ryan N
Cc:	Tamra Sessions; Robert Jordan
Subject:	RE: Rosa Unit 354A nCS1929540748
Date:	Wednesday, March 24, 2021 8:10:00 AM
Attachments:	image001.ipg image002.ipg

Thank you, will do!

Marie E. Florez

mflorez@logosresourcesllc.com



From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Wednesday, March 24, 2021 8:10 AM
To: Marie Florez <mflorez@logosresourcesllc.com>; Chase Polledo
<cpolledo@logosresourcesllc.com>; Joyner, Ryan N <rjoyner@blm.gov>
Cc: Tamra Sessions <tsessions@logosresourcesllc.com>; Robert Jordan
<rjordan@logosresourcesllc.com>
Subject: RE: Rosa Unit 354A nCS1929540748

Marie,

The plan to dig and haul the impacted area is approved by the OCD. Please send in your sampling notice following 19.15.29 NMAC as it gets closer.

Cory Smith • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1000 Rio Brazos | Aztec, NM 87410 505.334.6178 x115 | <u>Cory.Smith@state.nm.us</u> http://www.emnrd.state.nm.us/OCD/

From: Marie Florez <mflorez@logosresourcesllc.com>
Sent: Tuesday, March 23, 2021 4:29 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Chase Polledo
<cpolledo@logosresourcesllc.com>; Joyner, Ryan N <rjoyner@blm.gov>
Cc: Tamra Sessions <tsessions@logosresourcesllc.com>; Robert Jordan
<rjordan@logosresourcesllc.com>
Subject: [EXT] RE: Rosa Unit 354A nCS1929540748

Corey,

Per our conversation today, LOGOS will not be granted an additional extension on the following location.

See attached: LOGOS will begin remediation on April 8 of the spill path in red as noted within the SS1 Area green box. The SS 2 Area in blue passed.

 $3/18/2021 - 3^{rd}$ results for SC 1 @ 1' identified the Chloride content @ 878 mg/kg which is above the remediation level of 600 mg/kg.- **Failed;** The delineation site was captured.

3rd results for SC 1 @ 3' identified the Chloride content @ 83.2 mg/kg which is below the remediation level of 600 mg/kg. – **Passed;** The delineation site was captured.

 3^{rd} results for SC 2 @ 1' identified the Chloride content @ 406 mg/kg which is below the remediation level of 600 mg/kg.- **Passed;** The delineation site was captured.

3rd results for SC 2 @ 3' identified the Chloride content @ 98.1 mg/kg which is below the remediation level of 600 mg/kg. – **Passed;** The delineation site was captured.

9/6/2019- Signs of recent stuffing box leak, estimate volume was greater than 5bbls, release ran off location downside of access road towards storm water catchment with culvert. Well head cellar still contains approximately 1bbl of fluids. Not currently leaking. (P1560575-577.jpg)

Thanks,

Marie E. Florez

mflorez@logosresourcesllc.com



From: Marie Florez
Sent: Tuesday, March 9, 2021 2:43 PM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>; Chase Polledo
<<u>cpolledo@logosresourcesllc.com</u>>; Joyner, Ryan N <<u>rjoyner@blm.gov</u>>
Cc: 'Tamra Sessions' <<u>tsessions@logosresourcesllc.com</u>>; 'Robert Jordan'
<<u>rjordan@logosresourcesllc.com</u>>; Etta Trujillo <<u>etrujillo@logosresourcesllc.com</u>>;
Subject: RE: Rosa Unit 354A -Notification for final sampling

LOGOS is notifying BLM (Surface owner) and OCD two business days prior to conducting final sampling on the following well.

Date: March 11, 2021 (Thursday) Time: 10:00am

Incident # ncs1929540748

API: 30-039-27832 Well Name: Rosa Unit 354A Section: 19 Township: 31N Range: 4W Unit Letter: I

Thanks,

Marie E. Florez

mflorez@logosresourcesllc.com



From: Marie Florez
Sent: Wednesday, December 30, 2020 7:23 AM
To: 'Smith, Cory, EMNRD' <<u>Cory.Smith@state.nm.us</u>>; 'Powell, Brandon, EMNRD'
<<u>Brandon.Powell@state.nm.us</u>>
Cc: Tamra Sessions <<u>tsessions@logosresourcesllc.com</u>>; Robert Jordan
<rjordan@logosresourcesllc.com>
Subject: RE: Rosa Unit 354A -Notification for final sampling - Cancel

Cory,

LOGOS will need to cancel this until the ground thaws to take samples. We will keep you posted.

Thanks,

Marie E. Florez mflorez@logosresourcesllc.com

?

From: Marie Florez
Sent: Tuesday, December 29, 2020 9:01 AM
To: 'Smith, Cory, EMNRD' <<u>Cory.Smith@state.nm.us</u>>; Powell, Brandon, EMNRD
<<u>Brandon.Powell@state.nm.us></u>
Cc: Tamra Sessions <<u>tsessions@logosresourcesllc.com</u>>; Robert Jordan

<rjordan@logosresourcesllc.com>

Subject: Rosa Unit 354A -Notification for final sampling Importance: High

LOGOS is notifying OCD two business days (including the Holiday) prior to conducting final sampling on the following well.

Date: January 4, 2021 (Monday) Time: 12:00pm

Incident # ncs1929540748

API: 30-039-27832 Well Name: Rosa Unit 354A Section: 19 Township: 31N Range: 4W Unit Letter: I

Thanks,

Marie E. Florez

Regulatory Specialist Cell: 505-419-8420 Office: 505-787-2218 <u>mflorez@logosresourcesllc.com</u>



From:	Larissa Farrell
То:	"Smith, Cory, EMNRD"; Miller JJ (jjmiller@fs.fed.us)
Subject:	FW: Sampling Notification
Date:	Monday, October 7, 2019 4:02:00 PM
Attachments:	image001.jpg

LOGOS Operating will be conducting these sampling events tomorrow (10/8/19). Please call for time if you will be attending.

Thank you,

Larissa Farrell Environmental/Regulatory Technician Office: (505) 787-2027 Cell: (505) 419-1100 <u>Ifarrell@logosresourcesllc.com</u>



From: Larissa Farrell
Sent: Monday, October 7, 2019 10:19 AM
To: 'Smith, Cory, EMNRD' <Cory.Smith@state.nm.us>; Miller JJ (jjmiller@fs.fed.us)
<jjmiller@fs.fed.us>
Subject: Sampling Notification

Good morning,

LOGOS Operating will be conducting confirmation sampling at the following locations on Wednesday October 9, 2019 beginning at 11:00am at the Rosa Unit 354A.

Rosa Unit 354A 30-039-27832 Sec 19 T31N R4W

Rosa Unit 312 30-039-25058 Sec 28 T31N R4W

Rosa Unit 267

30-039-25012 Sec 28 T31N R5W

Please let me know if you have any questions.

Thank you,

Larissa Farrell Environmental/Regulatory Technician Office: (505) 787-2027 Cell: (505) 419-1100 Ifarrell@logosresourcesllc.com



From:	Marie Florez
То:	Smith, Cory, EMNRD; Chase Polledo; Joyner, Ryan N
Cc:	Tamra Sessions, Robert Jordan, Etta Trujillo
Subject:	RE: Rosa Unit 354A -Notification for final sampling
Date:	Monday, April 19, 2021 8:12:00 AM
Attachments:	image002.jpg
	image003.jpg
	image004.jpg

Incident # ncs1929540748

LOGOS is notifying BLM (Surface owner) and OCD two business days prior to conducting final sampling on the following well.

Date: April 21, 2021 (Wednesday) Time: 10:00am

API: 30-039-27832 Well Name: Rosa Unit 354A Section: 19 Township: 31N Range: 4W Unit Letter: I

Thanks,

Marie E. Florez

mflorez@logosresourcesllc.com

?

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Tuesday, March 9, 2021 3:56 PM
To: Marie Florez <mflorez@logosresourcesllc.com>; Chase Polledo
<cpolledo@logosresourcesllc.com>; Joyner, Ryan N <rjoyner@blm.gov>
Cc: Tamra Sessions <tsessions@logosresourcesllc.com>; Robert Jordan
<rjordan@logosresourcesllc.com>; Etta Trujillo <etrujillo@logosresourcesllc.com>
Subject: RE: Rosa Unit 354A -Notification for final sampling

Marie,

Thank you for the notification for confirmation sampling at the Rosa Unit 354A Incident # ncs1929540748 on March 11, 2021 (Thursday). If an OCD representative is not onsite please sample per 19.15.29 NMAC. If for some reason the date/time changes please contact OCD asap so we can update our schedules. If Logos is requesting alternative sampling sizes please email/call/ send photos

of the sampling area so the OCD can approve an alternative sampling size.

Thanks,

Cory Smith • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1000 Rio Brazos | Aztec, NM 87410 505.334.6178 x115 | <u>Cory.Smith@state.nm.us</u> http://www.emnrd.state.nm.us/OCD/

From: Marie Florez <mflorez@logosresourcesllc.com>
Sent: Tuesday, March 9, 2021 2:43 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Chase Polledo
<cpolledo@logosresourcesllc.com>; Joyner, Ryan N <rjoyner@blm.gov>
Cc: Tamra Sessions <tsessions@logosresourcesllc.com>; Robert Jordan
<rjordan@logosresourcesllc.com>; Etta Trujillo <etrujillo@logosresourcesllc.com>
Subject: [EXT] RE: Rosa Unit 354A -Notification for final sampling

LOGOS is notifying BLM (Surface owner) and OCD two business days prior to conducting final sampling on the following well.

Date: March 11, 2021 (Thursday) Time: 10:00am

Incident # ncs1929540748

API: 30-039-27832 Well Name: Rosa Unit 354A Section: 19 Township: 31N Range: 4W Unit Letter: I

Thanks,

Marie E. Florez mflorez@logosresourcesllc.com

?

From: Marie Florez
Sent: Wednesday, December 30, 2020 7:23 AM
To: 'Smith, Cory, EMNRD' <<u>Cory.Smith@state.nm.us</u>>; 'Powell, Brandon, EMNRD'
<<u>Brandon.Powell@state.nm.us</u>>

Cc: Tamra Sessions <<u>tsessions@logosresourcesllc.com</u>>; Robert Jordan
<<u>rjordan@logosresourcesllc.com</u>>
Subject: RE: Rosa Unit 354A -Notification for final sampling - Cancel

Cory,

LOGOS will need to cancel this until the ground thaws to take samples. We will keep you posted.

Thanks,

Marie E. Florez mflorez@logosresourcesllc.com



From: Marie Florez
Sent: Tuesday, December 29, 2020 9:01 AM
To: 'Smith, Cory, EMNRD' <<u>Cory.Smith@state.nm.us</u>>; Powell, Brandon, EMNRD
<<u>Brandon.Powell@state.nm.us</u>>
Cc: Tamra Sessions <<u>tsessions@logosresourcesllc.com</u>>; Robert Jordan
<rjordan@logosresourcesllc.com>
Subject: Rosa Unit 354A -Notification for final sampling
Importance: High

LOGOS is notifying OCD two business days (including the Holiday) prior to conducting final sampling on the following well.

Date: January 4, 2021 (Monday) Time: 12:00pm

Incident # ncs1929540748

API: 30-039-27832 Well Name: Rosa Unit 354A Section: 19 Township: 31N Range: 4W Unit Letter: I

Thanks,

Marie E. Florez

Regulatory Specialist Cell: 505-419-8420 Office: 505-787-2218 mflorez@logosresourcesllc.com



Reserved by OCD: 6/17/2021 11:57:48 AM

 1625 N. French Dr., Hobbs, NM 88240

 <u>District II</u>

 811 S. First St., Artesia, NM 88210

 <u>District III</u>

 1000 Rio Brazos Road, Aztec, NM 87410

 <u>District IV</u>

 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Page 25 of 59 Form C-138 Revised August 1, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 *Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: LOGOS Operating, LLC
2010 Afton Place, Farmington NM 87401
2. Originating Site: Rosa Unit 354A
API: 30-039-27832
3. Location of Material (Street Address, City, State or ULSTR): Unit: I Section 19 T31N R4W
4. Source and Description of Waste: Contaminated soil
Estimated Volume <u>10 Yards</u> $yd^3/bbls$ Known Volume (to be entered by the operator at the end of the haul) $yd^3/bbls$
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
I, <u>Marie E. Florez</u> , representative or authorized agent for <u>LOGOS Operating, LLC</u> do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988
regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt:Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste.Operator Use Only:Waste Acceptance FrequencyMonthlyWeeklyPer Load
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
🗆 MSDS Information 🔅 RCRA Hazardous Waste Analysis 🔅 Process Knowledge 🔅 Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
I, Marie E. Florez, representative for LOGOS Operating, LLC do hereby certify that
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter:
Various
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: Industrial Ecosystems INC. Permit # NM 01-0010B
Address of Facility: 49 CR 3150 Aztec, NM 87410
Method of Treatment and/or Disposal:
Evaporation Injection Treating Plant X Landfarm Landfill Other
Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)
PRINT NAME: TITLE: DATE:
SIGNATURE: TELEPHONE NO.:

LOGOS Operating, LLC Site Pictures Rosa Unit 354A Figure 1



Well Sign



Impacted Area 9/6/2019



Impacted Area 9/6/2019

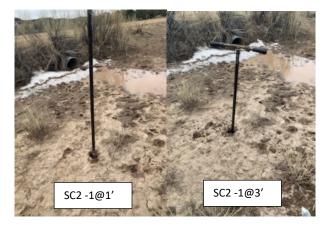


Impacted Area 9/6/2019

SS2 Area

Delineation for Final Sample on 3/11/2021

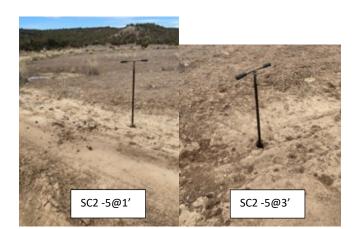
Passed







SC2 -4@1'



SC2 -4@3'

Remediated SS1 Area 4/8/2021





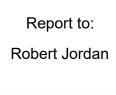
```
Remediate along SS1 path @ 2'.
```

Backfilled SS1 Area 4/28/2021











5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Logos Resources

Project Name:

Rosa Unit 354A

Work Order: E103052

Job Number: 12035-0114

Received: 3/11/2021

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/18/21

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. Date Reported: 3/18/21

Robert Jordan 2010 Afton Place Farmington, NM 87401

Project Name: Rosa Unit 354A Workorder: E103052 Date Received: 3/11/2021 4:38:00PM

Robert Jordan,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/11/2021 4:38:00PM, under the Project Name: Rosa Unit 354A.

The analytical test results summarized in this report with the Project Name: Rosa Unit 354A 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

Envirotech Web Address: www.envirotech-inc.com



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Received by OCD: 6/17/2021 11:57:48 AM

Sample Summary

		Sample Sum	mary		
Logos Resources 2010 Afton Place		Project Name: Project Number:	Rosa Unit 354A 12035-0114		Reported:
Farmington NM, 87401		Project Manager:	Robert Jordan		03/18/21 16:46
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-1 at 1'	E103052-01A	Soil	03/11/21	03/11/21	Glass Jar, 4 oz.
SC-1 at 3'	E103052-02A	Soil	03/11/21	03/11/21	Glass Jar, 4 oz.
SC-2 at 1'	E103052-03A	Soil	03/11/21	03/11/21	Glass Jar, 4 oz.
SC-2 at 3'	E103052-04A	Soil	03/11/21	03/11/21	Glass Jar, 4 oz.



		imple D	uu						
Logos Resources	Project Name:	Rosa	uUnit 3544	4					
2010 Afton Place	Project Numbe		12035-0114				Reported:		
Farmington NM, 87401	Project Manag	er: Rob	ert Jordan				3/18/2021 4:46:24PM		
		SC-1 at 1'							
]	E103052-01							
		Reporting							
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2112002		
Benzene	ND	0.0250		1	03/15/21	03/15/21			
°oluene	ND	0.0250		1	03/15/21	03/15/21			
Ethylbenzene	ND	0.0250		1	03/15/21	03/15/21			
,m-Xylene	ND	0.0500		1	03/15/21	03/15/21			
-Xylene	ND	0.0250		1	03/15/21	03/15/21			
otal Xylenes	ND	0.0250		1	03/15/21	03/15/21			
urrogate: 1,2-Dichloroethane-d4		108 %	70-130		03/15/21	03/15/21			
urrogate: Toluene-d8		101 %	70-130		03/15/21	03/15/21			
urrogate: Bromofluorobenzene		89.8 %	70-130		03/15/21	03/15/21			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2112002		
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/15/21	03/15/21			
urrogate: 1,2-Dichloroethane-d4		108 %	70-130		03/15/21	03/15/21			
urrogate: Toluene-d8		101 %	70-130		03/15/21	03/15/21			
urrogate: Bromofluorobenzene		89.8 %	70-130		03/15/21	03/15/21			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg		xg Analyst: HT		nalyst: HT		Batch: 2112024
Diesel Range Organics (C10-C28)	ND	25.0		1	03/17/21	03/18/21			
Dil Range Organics (C28-C35)	ND	50.0		1	03/17/21	03/18/21			
urrogate: n-Nonane		111 %	50-200		03/17/21	03/18/21			
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2112015		
Chloride	878	20.0		1	03/17/21	03/17/21			

Sample Data



Received by OCD: 6/17/2021 11:57:48 AM

Sample	Data
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	25	imple D	ata				
Logos Resources 2010 Afton Place	Project Name:		Rosa Unit 354A				
Farmington NM, 87401	Project Numbe Project Manag		35-0114 ert Jordan				Reported: 3/18/2021 4:46:24PM
rannington NM, 87401	Project Manage	er: Koo	en jordan				5/18/2021 4.40.24FW
		SC-1 at 3'					
]	E103052-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2112002
Benzene	ND	0.0250		1	03/15/21	03/15/21	
Toluene	ND	0.0250		1	03/15/21	03/15/21	
Ethylbenzene	ND	0.0250		1	03/15/21	03/15/21	
,m-Xylene	ND	0.0500		1	03/15/21	03/15/21	
o-Xylene	ND	0.0250		1	03/15/21	03/15/21	
Fotal Xylenes	ND	0.0250		1	03/15/21	03/15/21	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/15/21	03/15/21	
Surrogate: Toluene-d8		103 %	70-130		03/15/21	03/15/21	
urrogate: Bromofluorobenzene		90.8 %	70-130		03/15/21	03/15/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2112002
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/15/21	03/15/21	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/15/21	03/15/21	
Surrogate: Toluene-d8		103 %	70-130		03/15/21	03/15/21	
Surrogate: Bromofluorobenzene		90.8 %	70-130		03/15/21	03/15/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	HT		Batch: 2112024
Diesel Range Organics (C10-C28)	ND	25.0		1	03/17/21	03/18/21	
Dil Range Organics (C28-C35)	ND	50.0		1	03/17/21	03/18/21	
Surrogate: n-Nonane		110 %	50-200		03/17/21	03/18/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2112015
Chloride	83.2	20.0		1	03/17/21	03/17/21	



Sample	e Data
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	28	imple D	ata				
Logos Resources 2010 Afton Place	Project Name: Project Numbe		a Unit 354 <i>4</i> 35-0114	A			Reported:
Farmington NM, 87401	Project Manage	er: Rob	ert Jordan				3/18/2021 4:46:24PM
		SC-2 at 1'					
]	E103052-03					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2112002
Benzene	ND	0.0250		1	03/15/21	03/16/21	
Toluene	ND	0.0250		1	03/15/21	03/16/21	
Ethylbenzene	ND	0.0250		1	03/15/21	03/16/21	
o,m-Xylene	ND	0.0500		1	03/15/21	03/16/21	
p-Xylene	ND	0.0250		1	03/15/21	03/16/21	
Total Xylenes	ND	0.0250		1	03/15/21	03/16/21	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		03/15/21	03/16/21	
Surrogate: Toluene-d8		101 %	70-130		03/15/21	03/16/21	
Surrogate: Bromofluorobenzene		90.5 %	70-130		03/15/21	03/16/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2112002
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/15/21	03/16/21	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		03/15/21	03/16/21	
Surrogate: Toluene-d8		101 %	70-130		03/15/21	03/16/21	
Surrogate: Bromofluorobenzene		90.5 %	70-130		03/15/21	03/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	HT		Batch: 2112024
Diesel Range Organics (C10-C28)	ND	25.0		1	03/17/21	03/18/21	
Dil Range Organics (C28-C35)	50.3	50.0		1	03/17/21	03/18/21	
Surrogate: n-Nonane		110 %	50-200		03/17/21	03/18/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2112015
Chloride	406	20.0		1	03/17/21	03/17/21	



Sample Data

	Di	ample D	ลเล				
Logos Resources	Project Name:		a Unit 354	A			
2010 Afton Place	Project Numbe		35-0114				Reported:
Farmington NM, 87401	Project Manag	er: Rob	ert Jordan				3/18/2021 4:46:24PM
		SC-2 at 3'					
		E103052-04					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2112002
Benzene	ND	0.0250		1	03/15/21	03/16/21	
Toluene	ND	0.0250		1	03/15/21	03/16/21	
Ethylbenzene	ND	0.0250		1	03/15/21	03/16/21	
o,m-Xylene	ND	0.0500		1	03/15/21	03/16/21	
o-Xylene	ND	0.0250		1	03/15/21	03/16/21	
Fotal Xylenes	ND	0.0250		1	03/15/21	03/16/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		03/15/21	03/16/21	
Surrogate: Toluene-d8		103 %	70-130		03/15/21	03/16/21	
Surrogate: Bromofluorobenzene		93.0 %	70-130		03/15/21	03/16/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2112002
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/15/21	03/16/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		03/15/21	03/16/21	
Surrogate: Toluene-d8		103 %	70-130		03/15/21	03/16/21	
Surrogate: Bromofluorobenzene		93.0 %	70-130		03/15/21	03/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: HT		Batch: 2112024
Diesel Range Organics (C10-C28)	ND	25.0		1	03/17/21	03/18/21	
Dil Range Organics (C28-C35)	ND	50.0		1	03/17/21	03/18/21	
Surrogate: n-Nonane		108 %	50-200		03/17/21	03/18/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: IY		Batch: 2112015
Chloride	98.1	20.0		1	03/17/21	03/17/21	



QC Summary Data

		QC SI	u I I I I I I	ary Data					
Logos Resources		Project Name:	I	Rosa Unit 354A					Reported:
2010 Afton Place		Project Number:	1	12035-0114					
Farmington NM, 87401		Project Manager:	H	Robert Jordan				3/1	8/2021 4:46:24PM
		Volatile Organic	Comp	ounds by EPA	A 8260]	B			Analyst: IY
Analyte		Reporting	Spike	Source		Rec		RPD	
,	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2112002-BLK1)						Pre	pared: 03/1	5/21 Analyz	ed: 03/15/21
Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
o,m-Xylene	ND	0.0500							
p-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			
Surrogate: Bromofluorobenzene	0.441		0.500		88.2	70-130			
LCS (2112002-BS1)						Pre	pared: 03/1	5/21 Analyz	ed: 03/15/21
Benzene	2.29	0.0250	2.50		91.5	70-130			
Foluene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.49	0.0250	2.50		99.6	70-130			
p,m-Xylene	4.93	0.0500	5.00		98.6	70-130			
p-Xylene	2.47	0.0250	2.50		98.7	70-130			
Total Xylenes	7.40	0.0250	7.50		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			
Surrogate: Bromofluorobenzene	0.460		0.500		91.9	70-130			
Matrix Spike (2112002-MS1)				Sourc	e: E103	053-03 Pre	pared: 03/1	5/21 Analyz	ed: 03/15/21
Benzene	2.06	0.0250	2.50	ND	82.6	48-131			
Toluene	2.18	0.0250	2.50	ND	87.4	48-130			
Ethylbenzene	2.17	0.0250	2.50	ND	86.9	45-135			
p,m-Xylene	4.36	0.0500	5.00	ND	87.1	43-135			
p-Xylene	2.16	0.0250	2.50	ND	86.4	43-135			
Fotal Xylenes	6.52	0.0250	7.50	ND	86.9	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.537		0.500		107	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			
Surrogate: Bromofluorobenzene	0.449		0.500		89.7	70-130			
Matrix Spike Dup (2112002-MSD1)				Sour	e: E103	053-03 Pre	pared: 03/1	5/21 Analyz	ed: 03/15/21
Benzene	2.00	0.0250	2.50	ND	79.9	48-131	3.25	23	
Toluene	2.28	0.0250	2.50	ND	91.0	48-130	4.08	25	
Ethylbenzene	2.28	0.0250	2.50	ND	91.0	45-135	4.63	27	
o,m-Xylene	4.50	0.0500	5.00	ND	90.0	43-135	3.28	27	
p-Xylene	2.24	0.0250	2.50	ND	89.8	43-135	3.79	27	
Fotal Xylenes	6.75	0.0250	7.50	ND	90.0	43-135	3.45	27	
		0.0230	0.500	112			5.15	27	
Surrogate: 1,2-Dichloroethane-d4	0.549				110	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			
-			0.500		97.7	70-130			



QC Summary Data

		QC DI		lary Data						
Logos Resources 2010 Afton Place Farmington NM, 87401		Project Name: Project Number: Project Manager:		Rosa Unit 354A 12035-0114 Robert Jordan					Reported: 3/18/2021 4:46:24PM	
	No	Nonhalogenated Organics by EPA 8015D - GRO								
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2112002-BLK1)						Pre	pared: 03/	15/21 Ana	alyzed: 03/15/21	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130				
Surrogate: Toluene-d8	0.502		0.500		100	70-130				
Surrogate: Bromofluorobenzene	0.441		0.500		88.2	70-130				
LCS (2112002-BS2)						Pre	pared: 03/	15/21 Ana	alyzed: 03/15/21	
Gasoline Range Organics (C6-C10)	55.5	20.0	50.0		111	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130				
Surrogate: Toluene-d8	0.528		0.500		106	70-130				
Surrogate: Bromofluorobenzene	0.471		0.500		94.1	70-130				
Matrix Spike (2112002-MS2)				Sourc	e: E103	053-03 Pre	pared: 03/	15/21 Ana	alyzed: 03/15/21	
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.532		0.500		106	70-130				
Surrogate: Toluene-d8	0.515		0.500		103	70-130				
Surrogate: Bromofluorobenzene	0.455		0.500		91.0	70-130				
Matrix Spike Dup (2112002-MSD2)				Sourc	ce: E103	053-03 Pre	pared: 03/	15/21 An	alyzed: 03/15/21	
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130	5.79	20		
Surrogate: 1,2-Dichloroethane-d4	0.547		0.500		109	70-130				
Surrogate: Toluene-d8	0.528		0.500		106	70-130				
Surrogate: Bromofluorobenzene	0.464		0.500		92.7	70-130				



QC Summary Data

		QC D	umm	ary Data					
Logos Resources 2010 Afton Place Farmington NM, 87401		Project Name: Project Number: Project Manager:	1	Losa Unit 354A 2035-0114 Lobert Jordan					Reported: 3/18/2021 4:46:24PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: HT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	ing/kg	iiig/kg	ilig/kg	ilig/kg	70	70	70	70	Notes
Blank (2112024-BLK1)						Pre	pared: 03/1	17/21 Ana	alyzed: 03/17/21
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	54.0		50.0		108	50-200			
LCS (2112024-BS1)						Pre	pared: 03/1	17/21 An	alyzed: 03/17/21
Diesel Range Organics (C10-C28)	470	25.0	500		94.1	38-132			
Surrogate: n-Nonane	50.9		50.0		102	50-200			
Matrix Spike (2112024-MS1)				Sourc	e: E103	0 53-06 Pre	pared: 03/1	17/21 An	alyzed: 03/17/21
Diesel Range Organics (C10-C28)	524	25.0	500	ND	105	38-132			
Surrogate: n-Nonane	55.5		50.0		111	50-200			
Matrix Spike Dup (2112024-MSD1)				Sourc	e: E103	0 53-06 Pre	pared: 03/1	17/21 An	alyzed: 03/17/21
Diesel Range Organics (C10-C28)	492	25.0	500	ND	98.5	38-132	6.13	20	
Surrogate: n-Nonane	51.9		50.0		104	50-200			



QC Summary Data

		QC D	u 111111	ary Data	•				
Logos Resources 2010 Afton Place Farmington NM, 87401		Project Name: Project Number: Project Manager:	1	Cosa Unit 354A 2035-0114 Cobert Jordan					Reported: 3/18/2021 4:46:24PM
		Anions l	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 (2112015-BLK1)						Pre	pared: 03/1	17/21 Anal	yzed: 03/17/21
Chloride	ND	20.0							
LCS (2112015-BS1)						Pre	pared: 03/1	17/21 Anal	yzed: 03/17/21
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2112015-MS1)				Sourc	ce: E1030	052-01 Pre	pared: 03/1	17/21 Anal	yzed: 03/17/21
Chloride	1150	20.0	250	878	107	80-120			
Matrix Spike Dup (2112015-MSD1)				Sourc	ce: E1030	052-01 Pre	pared: 03/1	17/21 Anal	yzed: 03/17/21
Chloride	1220	20.0	250	878	139	80-120	6.64	20	M1

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.



	Demittions and rotes										
Logos Resources	Project Name:	Rosa Unit 354A									
2010 Afton Place	Project Number:	12035-0114	Reported:								
Farmington NM, 87401	Project Manager:	Robert Jordan	03/18/21 16:46								

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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.

Standard

Received by OCD: 6/17/2021 11:57:48 AM

Page 14 of 15

Project Information						Chain	Standard										P	age _		
Client	LOGOS Res	ources II	ПС			Bill To			- AND AND A	la	hlls	e On	lv	3.45		TAT	1	FP	A Progra	am
	Rosa Unit					Attention: Robert Jordan		Lah	WO#				Num	ber	1	D 3D	RCR		CWA	SD
	Aanager: Ro		dan			Address: 2010 Afton Place		Þ/F	-107	are	0	120	35	-011-	4					
	2010 Afto				1. State	City, State, Zip Farmington NM	87401		3/1					nd Met			1		St	ate
	e, Zip Farm		IM 87401			Phone: 505-324-4145		FRI		104)									IM CO	UT
	505-320-139					Email: etrujillo@logosresourcesllo	com	5	5									Ē		
	ordan@log		esllc com	()		tsessions@logosresourcesllc.com		801	801				0						тх ок	1
Report di		001000011				mflorez@logosresourcesllc.com		yd C) by	802:	260	010	300							
Time			1			minorez@logosresourcesiic.com	Lab	ORC	DRC	by 8	by 8	ils 6(ide					F		
Sampled	Date Sampled	Matrix	No Containers	Sample ID			Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						Rer	narks
10:00am	3/11/2021	S	1-4oz jar	SC-1 at 1	L		Inditiber	x	x	x	>	2	x							
10:00am	3/11/2021	s		SC-1 at 3			2	x	x	x	_		x		+	+		+		
		-					and the second se	<u> </u>	<u> </u>				<u> </u>				+	_		
10:00am	3/11/2021	S		SC-2 at 1			3	х	х	х			x							
10:00am	3/11/2021	S	1-4oz jar	SC-2 at 3			4	х	x	x			x							
Addition	al Instructio	ons:																		
	er), attest to the va					ering with or intentional plislabelling the same loc 1452	ation, date or												ay they are sa bsequent day	
Relinquistie	ed by Signat	re)-	Date		Time 4:37	Received by: (Signature)	Date 3/11	51	Time	2:3	8	Rec	eived	l on ice		Lab U		У		
Relinquishe	ed by: (Signatu	ıre)	Date		Time	Received by: (Signature)	Date	~ .	Time			T1			т.		8	г	-3	
Relinquishe	ed by: (Signatu	ıre)	Date		Time	Received by: (Signature)	Date		Time			AVG	Terr	np °C_	4	-				
Sample Mat	rix: S - Soil, Sd - 1	Solid Se cl.		ous O - Otho	r	L	Containe	r Type		glass	n - n	_	_		mber	glass v	- VOA			1000
Note: Sample	es are discarded	30 days afte	er results are	reported unle	ss other arrar	gements are made. Hazardous samples will be ne laboratory is limited to the amount paid for o	returned to clier											bove sa	imples is a	pplica
C	*			ech		S Highway 64, Farmington, NM 87401				Ph (5	05) 63	2-1881	Fx (50	5) 632-18	165		en	viroteci	n-inc.com	

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

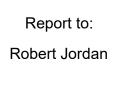
Client:	Logos Resources	Date Received:	03/11/21 16	:38		Work Order ID:	E103052
Phone:	(505) 320-1395	Date Logged In:	03/12/21 13	3:47		Logged In By:	Alexa Michaels
Email:	rjordan@logosresourcesllc.com	Due Date:	03/18/21 17	7:00 (5 day TAT))		
Chain o	f Custody (COC)						
1. Does t	he sample ID match the COC?		Yes				
2. Does t	he number of samples per sampling site location m	atch the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier:	Chase Polledo		
4. Was th	ne COC complete, i.e., signatures, dates/times, requ	ested analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucs:		Yes			<u>Commen</u>	ts/Resolution
Sample	<u> Turn Around Time (TAT)</u>						
6. Did th	e COC indicate standard TAT, or Expedited TAT?		No				
Sample	<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If ye	s, were custody/security seals intact?		NA				
12. Was t	he sample received on ice? If yes, the recorded temp is 4% Note: Thermal preservation is not required, if samples a		Yes				
13 If no	minutes of sampling visible ice, record the temperature. Actual samp	e temperature: 4º	C				
		ie temperature. <u>+</u>	<u> </u>				
	Container aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		No NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct container	·c?	Yes				
	appropriate volume/weight or number of sample container		Yes				
Field La		liners concetted.	105				
	field sample labels filled out with the minimum in	formation [.]					
	Sample ID?		Yes				
I	Date/Time Collected?		Yes				
	Collectors name?		Yes				
	Preservation						
	the COC or field labels indicate the samples were	preserved?	No				
	sample(s) correctly preserved?		NA				
24. Is lat	o filteration required and/or requested for dissolved	metals?	No				
	ase Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiph	ase?	No				
27. If ye	s, does the COC specify which phase(s) is to be ana	lyzed?	NA				
	ract Laboratory						
	commutes according to get sout to a subcompany tabanet	ond	No				
	samples required to get sent to a subcontract laborat a subcontract laboratory specified by the client and	-	NA S				

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

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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 354A

Work Order: E104098

Job Number: 12035-0114

Received: 4/21/2021

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/28/21

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. Date Reported: 4/28/21

Robert Jordan 2010 Afton Place Farmington, NM 87401

Project Name: Rosa Unit 354A Workorder: E104098 Date Received: 4/21/2021 4:58:00PM

Robert Jordan,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/21/2021 4:58:00PM, under the Project Name: Rosa Unit 354A.

The analytical test results summarized in this report with the Project Name: Rosa Unit 354A 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

Field Office:

Lynn Estes Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 lestes@envirotech-inc.com

Envirotech Web Address: www.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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		Sample Sum	mary		
Logos Resources		Project Name:	Rosa Unit 354A		Reported:
2010 Afton Place		Project Number:	12035-0114		Reporteu.
Farmington NM, 87401		Project Manager:	Robert Jordan		04/28/21 11:48
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container

C



	50	imple D	ala			
Logos Resources	Project Name:	Rosa	a Unit 354A			
2010 Afton Place	Project Numbe	er: 1203	35-0114			Reported:
Farmington NM, 87401	er: Rob	ert Jordan			4/28/2021 11:48:45AM	
	SB-	1-grab samp	ole			
		E104098-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2117026
Benzene	ND	0.0250	1	04/22/21	04/26/21	
Ethylbenzene	ND	0.0250	1	04/22/21	04/26/21	
oluene	ND	0.0250	1	04/22/21	04/26/21	
-Xylene	ND	0.0250	1	04/22/21	04/26/21	
o,m-Xylene	ne ND				04/26/21	
Total Xylenes	ND	0.0250	1	04/22/21	04/26/21	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	04/22/21	04/26/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2117026
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/21	04/26/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	70-130	04/22/21	04/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: HT		Batch: 2117034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/21	04/24/21	
Dil Range Organics (C28-C35)	ND	50.0	1	04/23/21	04/24/21	
urrogate: n-Nonane		99.4 %	50-200	04/23/21	04/24/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2117032
Chloride	64.2	20.0	1	04/23/21	04/23/21	

Sample Data

QC Summary Data

		QC D		ary Data					
Logos Resources 2010 Afton Place		Project Name: Project Number:	12	osa Unit 354A 2035-0114				4	Reported: 1/28/2021 11:48:45AM
Farmington NM, 87401		Project Manager:	2					4	#/28/2021 11:48:43AM
		Volatile O	rganics	by EPA 8021	В				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2117026-BLK1)						Pre	pared: 04/2	22/21 Anal	yzed: 04/26/21
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.3	70-130			
LCS (2117026-BS1)						Pre	pared: 04/2	22/21 Anal	yzed: 04/26/21
Benzene	4.87	0.0250	5.00		97.4	70-130			
Ethylbenzene	4.80	0.0250	5.00		95.9	70-130			
Toluene	5.00	0.0250	5.00		100	70-130			
o-Xylene	4.96	0.0250	5.00		99.3	70-130			
p,m-Xylene	9.78	0.0500	10.0		97.8	70-130			
Total Xylenes	14.7	0.0250	15.0		98.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			
Matrix Spike (2117026-MS1)				Sourc	e: E104	094-01 Pre	pared: 04/2	22/21 Anal	yzed: 04/26/21
Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133			
Toluene	5.14	0.0250	5.00	ND	103	61-130			
p-Xylene	5.07	0.0250	5.00	ND	101	63-131			
o,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		91.9	70-130			
Matrix Spike Dup (2117026-MSD1)				Source	e: E104	094-01 Pre	pared: 04/2	22/21 Anal	yzed: 04/26/21
Benzene	4.96	0.0250	5.00	ND	99.2	54-133	1.50	20	
Ethylbenzene	4.83	0.0250	5.00	ND	96.6	61-133	1.69	20	
Toluene	5.05	0.0250	5.00	ND	101	61-130	1.81	20	
p-Xylene	4.99	0.0250	5.00	ND	99.9	63-131	1.46	20	
p,m-Xylene	9.84	0.0500	10.0	ND	98.4	63-131	1.70	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.9	63-131	1.62	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

		QC S	uIIIII	aly Data					
Logos Resources 2010 Afton Place Farmington NM, 87401		Project Name: Project Number: Project Manager:	1	Cosa Unit 354A 2035-0114 Cobert Jordan					Reported: 4/28/2021 11:48:45AM
	No	nhalogenated O	Organics	by EPA 801	5D - G	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	N .
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2117026-BLK1)						Pre	pared: 04/2	22/21 Ana	lyzed: 04/26/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.48		8.00		106	70-130			
LCS (2117026-BS2)						Pre	pared: 04/2	22/21 Ana	lyzed: 04/26/21
Gasoline Range Organics (C6-C10)	50.5	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.38		8.00		105	70-130			
Matrix Spike (2117026-MS2)				Sourc	ce: E104	094-01 Pre	pared: 04/2	22/21 Ana	lyzed: 04/26/21
Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.51		8.00		106	70-130			
Matrix Spike Dup (2117026-MSD2)				Sourc	ce: E104	094-01 Pre	pared: 04/2	22/21 Ana	lyzed: 04/26/21
Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130	0.874	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.61		8.00		108	70-130			



QC Summary Data

		QC DI	u	ialy Data					
Logos Resources 2010 Afton Place Farmington NM, 87401		Project Name: Project Number: Project Manager:		Rosa Unit 354A 12035-0114 Robert Jordan					Reported: 4/28/2021 11:48:45AM
	Nonh	alogenated Org	anics b	y EPA 8015D	- DRO	/ORO			Analyst: HT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2117034-BLK1)						Pre	pared: 04/2	23/21 Anal	lyzed: 04/23/21
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C35)	ND ND	25.0 50.0							
Surrogate: n-Nonane	50.6		50.0		101	50-200			
LCS (2117034-BS1)						Pre	pared: 04/2	23/21 Anal	lyzed: 04/23/21
Diesel Range Organics (C10-C28)	515	25.0	500		103	38-132			
Surrogate: n-Nonane	47.8		50.0		95.6	50-200			
Matrix Spike (2117034-MS1)				Sourc	e: E104	094-04 Pre	pared: 04/2	23/21 Anal	lyzed: 04/23/21
Diesel Range Organics (C10-C28)	530	25.0	500	ND	106	38-132			
Surrogate: n-Nonane	48.8		50.0		97.6	50-200			
Matrix Spike Dup (2117034-MSD1)				Sourc	e: E104	094-04 Pre	pared: 04/2	23/21 Anal	lyzed: 04/23/21
Diesel Range Organics (C10-C28)	528	25.0	500	ND	106	38-132	0.248	20	
Surrogate: n-Nonane	49.3		50.0		98.6	50-200			



QC Summary Data

		QC D	u1111116	ii y Data	•				
Logos Resources 2010 Afton Place Farmington NM, 87401		Project Name: Project Number: Project Manager:	12	osa Unit 354A 2035-0114 obert Jordan					Reported: 4/28/2021 11:48:45AM
		Anions l	by EPA 3	300.0/9056A					Analyst: RAS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2117032-BLK1)						Pre	pared: 04/2	23/21 Ana	alyzed: 04/23/21
Chloride	ND	20.0							
LCS (2117032-BS1)						Pre	pared: 04/2	23/21 Ana	alyzed: 04/23/21
Chloride	243	20.0	250		97.1	90-110			
Matrix Spike (2117032-MS1)				Sour	ce: E1040	94-01 Pre	pared: 04/2	23/21 Ana	alyzed: 04/23/21
Chloride	289	20.0	250	44.2	98.1	80-120			
Matrix Spike Dup (2117032-MSD1)				Sour	ce: E1040	94-01 Pre	pared: 04/2	23/21 Ana	alyzed: 04/23/21
Chloride	301	20.0	250	44.2	103	80-120	3.80	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.



Lo	ogos Resources	Project Name:	Rosa Unit 354A	
20	10 Afton Place	Project Number:	12035-0114	Reported:
Fa	urmington NM, 87401	Project Manager:	Robert Jordan	04/28/21 11:48

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.



Ducient	Information
Project	Information

Cliont	LOGOS Reso	ourcos II			1001010	Bill To				10	hlle	0.00	h.	Sec. 26 (1997)	T	AT		EPA Progra	
	Rosa Unit				At	tention: Robert Jordan					Lab Use Only Lab WO#, Job Number 1						RCRA	CWA	
	Aanager: Ro		dan			dress: 2010 Afton Place		P	-104	ICF	2	120	25-	0114	1D	50	NCINA	CWA	JUWA
	2010 Afto			•		y, State, Zip Farmington NI	VI 87401	A	n4	5	61	Analy	sis an	d Metho	d			Sta	ate
	e, Zip Farm		IM 87401	-		Phone: 505-324-4145								Т			NM CO	UTAZ	
	505-320-139				En	nail: etrujillo@logosresources	lc.com	15	15										
Email: rj	ordan@logo	sresourc	esllc.com			essions@logosresourcesllc.com		V 80	y 80	п		0	0.0					TX OK	
Report d	ue by:				mf	lorez@logosresourcesllc.com		ROb	RO b	/ 802	826	601(e 30						
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					Ren	age 1 SDWA ate UT AZ Darks
10:00am	4/21/2021	S	1-4oz jar	SB - 1 - g	rab sample		1	x	x	х			x						
														-					
								-					_	_	-		_		
																	_		
								-											
Addition	al Instructio	ons:																	
, (field sample	er), attest to the va	lidity and auth	nenticity of this	sample. I am	aware that tamperin	g with or intentionally mislabelling the sample le	ocation, date or	10										he day they are san n subsequent days	400000000000000000000000000000000000000
	ed by; (Signatu		Data		Time	Received by: (Signature)		<u>ri</u>	Time					Sec. S. A.	La	ab Use	Only		
WILL	ed by: (Signatu	Will		212	4 1,55 PV	Received by: (Signature)	Date Date	21	1(C	5:5	28	Rece	eived	on ice:	Y	Y N			
nemiquisti	eu by, loigilatu		Date	851		neverved by, (Signature)	Sole					T1			<u>T2</u>		1	<u>T3</u>	
Relinquish	ed by: (Signatu	re)	Date		Time	Received by: (Signature)	Date		Time			AVG	Temp	o°c	4	iner.	1		
Sample Mat	rix: S - Soil, Sd - S	olid. Sg - Slu	Idge. A - Aqu	eous. O - Oth	er		Containe	r Type	:g-g	lass,					er glas	s, v - V	OA		
						nents are made. Hazardous samples will b			_	_	_							e complec is or	nlicable

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

	s: Please take note of any NO checkmarks. e no response concerning these items within 24 hours of the	-	-	samples will be analy	zed as reques	ted.	
Client:	Logos Resources D	ate Received:	04/21/21	16:58		Work Order ID:	E104098
Phone:	(505) 320-1395 D	ate Logged In:	04/22/21			Logged In By:	Alexa Michaels
Email:		ue Date:		17:00 (5 day TAT)			
Chain o	f Custody (COC)						
	the sample ID match the COC?		Yes				
	the number of samples per sampling site location match	the COC	Yes				
	samples dropped off by client or carrier?		Yes	Carrier: Ma	rie Florez		
	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes	Curren: Mu	<u></u>		
	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	·	Yes			Comment	ts/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>						
6. Did tl	ne COC indicate standard TAT, or Expedited TAT?		No				
Sample	Cooler						
7. Was a	sample cooler received?		Yes				
8. If yes	, was cooler received in good condition?		Yes				
9. Was t	he sample(s) received intact, i.e., not broken?		Yes				
10. Wer	e custody/security seals present?		No				
	s, were custody/security seals intact?		NA				
•	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re		Yes				
13. If no	minutes of sampling o visible ice, record the temperature. Actual sample temperature	nperature: <u>4°</u>	<u>C</u>				
Sample	<u>Container</u>						
14. Are	aqueous VOC samples present?		No				
15. Are	VOC samples collected in VOA Vials?		NA				
16. Is th	e head space less than 6-8 mm (pea sized or less)?		NA				
17. Was	a trip blank (TB) included for VOC analyses?		NA				
18. Are	non-VOC samples collected in the correct containers?		Yes				
19. Is the	e appropriate volume/weight or number of sample containers	s collected?	Yes				
Field La	abel						
20. Wer	e field sample labels filled out with the minimum inform	ation:					
	Sample ID?		Yes				
	Date/Time Collected?		Yes				
	Collectors name?		No				
-	<u>Preservation</u> s the COC or field labels indicate the samples were prese	amad9	No				
	sample(s) correctly preserved?		NA				
	b filteration required and/or requested for dissolved meta	als?	No				
		415.	NU				
	nase Sample Matrix						
	s the sample have more than one phase, i.e., multiphase?		No				
27. If ye	es, does the COC specify which phase(s) is to be analyze	a:	NA				
	tract Laboratory_						
	samples required to get sent to a subcontract laboratory?		No				
29. Was	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab: 1	NA		
Client	Instruction						

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

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Released to Imaging: 1/21/2022 1:50:32 PM

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	32542
	Action Type:
	[C-141] Release Corrective Action (C-141)

COMMENTS

Created By	Comment	Comment Date
nvele	As a reminder, any future releases MUST follow the timelines specified within 19.15.29 NMAC regardless of changes in personnel or any circumstance that an operator deems justifiable in delaying the require notifications to OCD.	1/21/2022

Action 32542

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

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CONDITIONS

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2010 Afton Place	Action Number:
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	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	1/21/2022

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Action 32542