Form C-144 Revised October 11, 2022

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

# Proposed Alternative Method Permit or Closure Plan Application

<u>Propos</u>	ed Alternative Method Pern	ilit of Closufe Plan Application	
	☐ Below grade tank registration ☐ Permit of a pit or proposed alternat	ive method	
DG11	Closure of a pit, below-grade tank, Modification to an existing permit/	or registration	1 4 1
or proposed altern		existing permitted or non-permitted pit, below-grad	le tank,
Instructions: Please	se submit one application (Form C-144) pe	er individual pit, below-grade tank or alternative request	f
		should operations result in pollution of surface water, ground hany other applicable governmental authority's rules, regulated	
1. Operator: LOGOS Operating LI	IC	OGRID #: <u>289408</u>	
		OGKID π. <u>207100</u>	
		North North on	
		remit Number:	
		Range 6W County: Rio Arriba	
		Longitude <u>-107.4204178</u>	NAD83
Surface Owner: ⊠ Federal □ State □	Private Tribal Trust or Indian Allotmo	ent	
Lined Unlined Liner type: T  String-Reinforced  Liner Seams: Welded Factory  Below-grade tank: Subsection I  Volume: 120  Tank Construction material: Fibe  Secondary containment with leak of Visible sidewalls and liner Vi	er  ritation P&A Multi-Well Fluid Man Thickness mil LLDPE  Other V  of 19.15.17.11 NMAC bbl Type of fluid: Produced Water		
4.  Alternative Method:  Submittal of an exception request is reconstructed.	equired. Exceptions must be submitted to t	he Santa Fe Environmental Bureau office for consideration	on of approval.
☐ Chain link, six feet in height, two sinstitution or church) ☐ Four foot height, four strands of ba	1 NMAC (Applies to permanent pits, tempostrands of barbed wire at top (Required if loantbed wire evenly spaced between one and f	cated within 1000 feet of a permanent residence, school,	hospital,

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)							
Screen Netting Other							
☐ Monthly inspections (If netting or screening is not physically feasible)							
7.							
Signs: Subsection C of 19.15.17.11 NMAC							
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers							
⊠ Signed in compliance with 19.15.16.8 NMAC							
8.							
Variances and Exceptions:							
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.							
Please check a box if one or more of the following is requested, if not leave blank:							
<ul> <li>□ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.</li> <li>□ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</li> </ul>							
9.							
Siting Criteria (regarding permitting): 19.15.17.10 NMAC							
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptant material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	otable source						
manufacture provided october Strang external does not approve any mg pade of above grade tames.							
General siting							
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.  - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	☐ Yes ⊠ No						
- MINI Office of the State Engineer - TWATERS database search, M Data obtained from hearby wens	□ NA						
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.	☐ Yes ☐ No ☐ NA						
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	LINA						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No						
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)							
- Written confirmation or verification from the municipality; Written approval obtained from the municipality							
Within the area overlying a subsurface mine. (Does not apply to below grade tanks)	☐ Yes ☐ No						
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division							
Within an unstable area. (Does not apply to below grade tanks)	☐ Yes ☐ No						
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map							
Within a 100-year floodplain. (Does not apply to below grade tanks)	☐ Yes ☐ No						
- FEMA map							
Below Grade Tanks							
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured							
from the ordinary high-water mark).	☐ Yes ⊠ No						
- Topographic map; Visual inspection (certification) of the proposed site							
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.	☐ Yes ⊠ No						
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site							
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)							
· — · · · · · · · · · · · · · · · · · ·							
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)	☐ Yes ☐ No						
- Topographic map; Visual inspection (certification) of the proposed site							
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
Within 200 horizontal feet of a enring or a private domestic fresh water well used by less than five households for domestic or steel							
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.	☐ Yes ☐ No						
NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site							

Within 100 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	Yes No
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.	
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
10.  Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N	IMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc	
attached.  Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC	15.17.9 NMAC
☐ Previously Approved Design (attach copy of design) API Number: or Permit Number:	
11.  Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc	cuments are
attached.  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  A List of wells with approved application for permit to drill associated with the pit.  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC	.15.17.9 NMAC
Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

12.	
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the d	locuments are
attached.  ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
☐ Climatological Factors Assessment ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC	
☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC	
☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC	
☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	
☐ Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan ☐ Emergency Response Plan	
☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan	
Erosion Control Plan	
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Flu	uid Management Pit
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)	
☐ On-site Closure Method (Only for temporary pits and closed-loop systems) ☐ In-place Burial ☐ On-site Trench Burial	
Alternative Closure Method	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached.	ttached to the
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC	
<ul> <li>☑ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>☑ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>	
Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Pl	
19.15.17.10 NMAC for guidance.	icuse rejer to
Ground water is less than 25 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site  Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland.	☐ 1¢2 ☐ 1\0
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	
Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	.11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and bel	ief.
Name (Print): Title:	_
Signature: Date:	
e-mail address: Telephone:	
18. Report  OCD Approval: Permit Application (including closure plan) X Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature: <u>Jaclyn Burdine</u> Approval Date: 10/20	/2022
Title: Environmental Specialist-A OCD Permit Number: BGT1	
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC  Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.    Closure Completion Date: 8/30/2022	
20.     Closure Method:     Waste Excavation and Removal □ On-Site Closure Method □ Alternative Closure Method □ Waste Removal (Closed-lo□ If different from approved plan, please explain.	oop systems only)

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this c belief. I also certify that the closure complies with all applicable closure r	closure report is true, accurate and complete to the best of my knowledge and requirements and conditions specified in the approved closure plan.
Name (Print): <u>Etta Trujillo</u> Title: _	Regulatory Specialist
Signature: Ctta Trujillo	Date: <u>10/19/2022</u>
e-mail address: <u>etrujillo@logosresourcesllc.com</u>	Telephone: <u>505-324-4154</u>

From: <u>Vanessa Fields</u>

To: Burdine, Jaclyn, EMNRD; Adeloye, Abiodun A

Cc: David Dryer; Tyler Smith; Sean Moore; Robert Bixler; Etta Trujillo; Marcia Brueggenjohann

Subject: BGT Removal Notification Tuesday August 30 2022 8:00 AM start at Rosa Unit 171 API# 30-039-26286

**Date:** Sunday, August 28, 2022 8:11:56 PM

Attachments: <u>image001.png</u>

#### Good evening,

LOGOS is providing notification for the removal of the referenced below grade tanks. Logos will start at Rosa #171 at 8:00 am and proceed to the following locations

Rosa Unit # 171 API 30-039-26286
Rosa Unit #171A API 30-039-26286
Rosa Unit # 008 API 30-039-25430
Rosa Unit # 030A API 30-039-26068
Rosa Unit # 098 API 30-039-23265

Please let me know if you should have any questions and/or concerns.

Thank you,

Vanessa Fields

Vanessa Fields Regulatory Manager

Email: vfields@logosresourcesllc.com

Office: 505-787-2218 Cell: 505-320-1243



Report to: Vanessa Fields







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 BGT Removals

Work Order: E208176

Job Number: 12035-0114

Received: 8/30/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/1/22

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: 9/1/22

Vanessa Fields 2010 Afton Place Farmington, NM 87401

Project Name: Rosa BGT Removals

Workorder: E208176

Date Received: 8/30/2022 1:45:00PM

Vanessa Fields,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2022 1:45:00PM, under the Project Name: Rosa BGT Removals.

The analytical test results summarized in this report with the Project Name: Rosa BGT Removals 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

Field Offices:

**Southern New Mexico Area** Lynn Jarboe

Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Technical Representative

Rayny Hagan

West Texas Midland/Odessa Area

Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

# **Table of Contents**

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
Rosa Unit 171	5
Rosa Unit #8 BGT #2	6
Rosa Unit 30A	7
Rosa Unit #98	8
QC Summary Data	9
QC - Volatile Organic Compounds by EPA 8260B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

#### **Sample Summary**

Logos Resources	Project Name:	Rosa BGT Removals	Reported:
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Vanessa Fields	09/01/22 10:56

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
Rosa Unit 171	E208176-01A Soil	08/29/22	08/30/22	Glass Jar, 4 oz.
Rosa Unit #8 BGT #2	E208176-02A Soil	08/29/22	08/30/22	Glass Jar, 4 oz.
Rosa Unit 30A	E208176-03A Soil	08/29/22	08/30/22	Glass Jar, 4 oz.
Rosa Unit #98	E208176-04A Soil	08/29/22	08/30/22	Glass Jar. 4 oz.



Logos ResourcesProject Name:Rosa BGT Removals2010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields9/1/2022 10:56:51AM

#### Rosa Unit 171 E208176-01

	E200170-01					
D 1	Reporting	D.J.		D 1		
Result	Limit	Dilui	tion	Prepared	Analyzed	Notes
mg/kg	mg/kg	1	Analyst: IY			Batch: 2236019
ND	0.0250	1	. (	08/30/22	08/30/22	
ND	0.0250	1	. (	08/30/22	08/30/22	
ND	0.0250	1	. (	08/30/22	08/30/22	
ND	0.0250	1		08/30/22	08/30/22	
ND	0.0500	1		08/30/22	08/30/22	
ND	0.0250	1	. (	08/30/22	08/30/22	
	99.4 %	70-130	(	08/30/22	08/30/22	
	97.8 %	70-130	(	08/30/22	08/30/22	
	102 %	70-130	•	08/30/22	08/30/22	
mg/kg	mg/kg	1	Analyst: IY			Batch: 2236019
ND	20.0	1	1	08/30/22	08/30/22	
	99.4 %	70-130	(	08/30/22	08/30/22	
	97.8 %	70-130		08/30/22	08/30/22	
	102 %	70-130		08/30/22	08/30/22	
mg/kg	mg/kg	1	Analyst: JL			Batch: 2236022
ND	25.0	1	. (	08/30/22	08/30/22	
ND	50.0	1	. (	08/30/22	08/30/22	
	92.8 %	50-200		08/30/22	08/30/22	
mg/kg	mg/kg	1	Analyst: RAS	S		Batch: 2236026
ND	20.0	1	. (	08/30/22	08/31/22	
	ND ND ND ND ND ND ND ND ND Mg/kg ND Mg/kg	Result         Reporting           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0500           ND         0.0250           99.4 %         97.8 %           102 %         mg/kg           ND         20.0           99.4 %         97.8 %           102 %         mg/kg           mg/kg         mg/kg           ND         25.0           ND         50.0           92.8 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilu           mg/kg         mg/kg           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           99.4 %         70-130         70-130           97.8 %         70-130         70-130           mg/kg         mg/kg         70-130           mg/kg         mg/kg         70-130           mg/kg         mg/kg         ND           25.0         1           ND         25.0         1           ND         50.0         1           mg/kg         mg/kg         50-200	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           99.4 %         70-130           97.8 %         70-130           mg/kg         mg/kg         Analyst: IY           ND         20.0         1           99.4 %         70-130         70-130           97.8 %         70-130         70-130           mg/kg         mg/kg         Analyst: IL           ND         25.0         1           ND         50.0         1           92.8 %         50-200           mg/kg         Mg/kg         Analyst: RA	Reporting Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         08/30/22           ND         0.0250         1         08/30/22           ND         0.0250         1         08/30/22           ND         0.0250         1         08/30/22           ND         0.0500         1         08/30/22           ND         0.0250         1         08/30/22           ND         0.0250         1         08/30/22           99.4 %         70-130         08/30/22           97.8 %         70-130         08/30/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         08/30/22           99.4 %         70-130         08/30/22           99.4 %         70-130         08/30/22           102 %         70-130         08/30/22           102 %         70-130         08/30/22           102 %         70-130         08/30/22           ND         25.0         1         08/30/22           ND         50.0         1         08/30/22	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         08/30/22         08/30/22           ND         0.0500         1         08/30/22         08/30/22           ND         0.0250         1         08/30/22         08/30/22           ND         0.0250         1         08/30/22         08/30/22           99.4 %         70-130         08/30/22         08/30/22           97.8 %         70-130         08/30/22         08/30/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         08/30/22         08/30/22           97.8 %         70-130         08/30/22         08/30/22           97.8 %         70-130         08/30/22         08/30/22           08/30/22         08/30/22         08/30/22



Logos ResourcesProject Name:Rosa BGT Removals2010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields9/1/2022 10:56:51AM

#### Rosa Unit #8 BGT #2

#### E208176-02

		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2236019
Benzene	ND	0.0250		1	08/30/22	08/31/22	
Ethylbenzene	ND	0.0250		1	08/30/22	08/31/22	
Toluene	ND	0.0250		1	08/30/22	08/31/22	
o-Xylene	ND	0.0250		1	08/30/22	08/31/22	
p,m-Xylene	ND	0.0500		1	08/30/22	08/31/22	
Total Xylenes	ND	0.0250		1	08/30/22	08/31/22	
Surrogate: Bromofluorobenzene		100 %	70-130		08/30/22	08/31/22	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		08/30/22	08/31/22	
Surrogate: Toluene-d8		102 %	70-130		08/30/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2236019
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/30/22	08/31/22	
Surrogate: Bromofluorobenzene		100 %	70-130		08/30/22	08/31/22	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		08/30/22	08/31/22	
Surrogate: Toluene-d8		102 %	70-130		08/30/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2236022
Diesel Range Organics (C10-C28)	ND	25.0		1	08/30/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0		1	08/30/22	08/30/22	
Surrogate: n-Nonane		93.0 %	50-200		08/30/22	08/30/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2236026

Logos ResourcesProject Name:Rosa BGT Removals2010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields9/1/2022 10:56:51AM

#### Rosa Unit 30A

#### E208176-03

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY			Batch: 2236019
Benzene	ND	0.0250	1		08/30/22	08/31/22	
Ethylbenzene	ND	0.0250	1		08/30/22	08/31/22	
Toluene	ND	0.0250	1		08/30/22	08/31/22	
o-Xylene	ND	0.0250	1		08/30/22	08/31/22	
p,m-Xylene	ND	0.0500	1		08/30/22	08/31/22	
Total Xylenes	ND	0.0250	1		08/30/22	08/31/22	
Surrogate: Bromofluorobenzene		101 %	70-130		08/30/22	08/31/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/30/22	08/31/22	
Surrogate: Toluene-d8		102 %	70-130		08/30/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY			Batch: 2236019
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/30/22	08/31/22	
Surrogate: Bromofluorobenzene		101 %	70-130		08/30/22	08/31/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/30/22	08/31/22	
Surrogate: Toluene-d8		102 %	70-130		08/30/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL			Batch: 2236022
Diesel Range Organics (C10-C28)	ND	25.0	1		08/30/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1		08/30/22	08/30/22	
Surrogate: n-Nonane		101 %	50-200		08/30/22	08/30/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RA	S		Batch: 2236026
					08/30/22	08/31/22	



Logos ResourcesProject Name:Rosa BGT Removals2010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields9/1/2022 10:56:51AM

#### Rosa Unit #98

		E208176-04					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2236019
Benzene	ND	0.0250	1	1	08/30/22	08/31/22	
Ethylbenzene	ND	0.0250	1	1	08/30/22	08/31/22	
Toluene	ND	0.0250	1	1	08/30/22	08/31/22	
o-Xylene	ND	0.0250	1	1	08/30/22	08/31/22	
p,m-Xylene	ND	0.0500	1	1	08/30/22	08/31/22	
Total Xylenes	ND	0.0250	1	1	08/30/22	08/31/22	
Surrogate: Bromofluorobenzene		99.9 %	70-130		08/30/22	08/31/22	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130		08/30/22	08/31/22	
Surrogate: Toluene-d8		102 %	70-130		08/30/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2236019
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/30/22	08/31/22	
Surrogate: Bromofluorobenzene		99.9 %	70-130		08/30/22	08/31/22	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130		08/30/22	08/31/22	
Surrogate: Toluene-d8		102 %	70-130		08/30/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2236022
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/30/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/30/22	08/30/22	
Surrogate: n-Nonane		88.6 %	50-200		08/30/22	08/30/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2236026

20.0

1

08/30/22

08/31/22

ND



Chloride

Logos ResourcesProject Name:Rosa BGT RemovalsReported:2010 Afton PlaceProject Number:12035-0114Farmington NM, 87401Project Manager:Vanessa Fields9/1/2022 10:56:51AM

Farmington NM, 87401		Project Manage	r: Va	nessa Fields				ç	9/1/2022 10:56:51AM
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В			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
Blank (2236019-BLK1)						I	Prepared: 0	8/30/22 An	alyzed: 08/30/22
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: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			
LCS (2236019-BS1)						F	Prepared: 0	8/30/22 An	alyzed: 08/30/22
Benzene	2.42	0.0250	2.50		96.8	70-130			
Ethylbenzene	2.35	0.0250	2.50		94.2	70-130			
Toluene	2.29	0.0250	2.50		91.4	70-130			
o-Xylene	2.20	0.0250	2.50		87.9	70-130			
p,m-Xylene	4.37	0.0500	5.00		87.3	70-130			
Total Xylenes	6.57	0.0250	7.50		87.5	70-130			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			
LCS Dup (2236019-BSD1)						F	Prepared: 0	8/30/22 An	alyzed: 08/30/22
Benzene	2.34	0.0250	2.50		93.4	70-130	3.49	23	
Ethylbenzene	2.27	0.0250	2.50		90.8	70-130	3.70	27	
Toluene	2.22	0.0250	2.50		88.7	70-130	3.07	24	
o-Xylene	2.14	0.0250	2.50		85.5	70-130	2.81	27	
o,m-Xylene	4.19	0.0500	5.00		83.9	70-130	4.08	27	
Total Xylenes	6.33	0.0250	7.50		84.4	70-130	3.65	27	
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			

0.500

103

70-130



Surrogate: Toluene-d8

0.517

Logos ResourcesProject Name:Rosa BGT RemovalsReported:2010 Afton PlaceProject Number:12035-0114Farmington NM, 87401Project Manager:Vanessa Fields9/1/2022 10:56:51AM

Nonhalogenated	Organics	by EPA	8015D -	GRO

Analyst	Т
Allalyst.	. 1

Analyte Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2236019-BLK1)						Prepared: 0	8/30/22 An	alyzed: 08/30/22
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.501		0.500	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500	97.7	70-130			
Surrogate: Toluene-d8	0.514		0.500	103	70-130			
LCS (2236019-BS2)						Prepared: 0	8/30/22 An	alyzed: 08/30/22
Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	108	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500	99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500	98.9	70-130			
Surrogate: Toluene-d8	0.514		0.500	103	70-130			
LCS Dup (2236019-BSD2)						Prepared: 0	8/30/22 An	alyzed: 08/30/22
Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	107	70-130	1.17	20	
Surrogate: Bromofluorobenzene	0.506		0.500	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500	101	70-130			
Surrogate: Toluene-d8	0.530		0.500	106	70-130			



Logos ResourcesProject Name:Rosa BGT RemovalsReported:2010 Afton PlaceProject Number:12035-0114Farmington NM, 87401Project Manager:Vanessa Fields9/1/2022 10:56:51AM

Farmington NM, 8/401		Project Manager	r: Va	nessa Fields				9/	1/2022 10:56:51AN
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO		_	Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2236022-BLK1)							Prepared: 0	8/30/22 Ana	lyzed: 08/30/22
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	46.4		50.0		92.9	50-200			
LCS (2236022-BS1)							Prepared: 0	8/30/22 Ana	lyzed: 08/30/22
Diesel Range Organics (C10-C28)	240	25.0	250		95.8	38-132			
urrogate: n-Nonane	47.7		50.0		95.4	50-200			
Matrix Spike (2236022-MS1)				Source:	E208160-0	01	Prepared: 0	8/30/22 Ana	lyzed: 08/30/22
Diesel Range Organics (C10-C28)	285	25.0	250	91.6	77.5	38-132			
urrogate: n-Nonane	46.2		50.0		92.4	50-200			
Matrix Spike Dup (2236022-MSD1)				Source:	E208160-0	01	Prepared: 0	8/30/22 Ana	lyzed: 08/30/22
Diesel Range Organics (C10-C28)	299	25.0	250	91.6	83.0	38-132	4.77	20	
urrogate: n-Nonane	48.2		50.0		96.5	50-200			

Logos Resources 2010 Afton Place		Project Name: Project Number:		losa BGT Rem 2035-0114	ovals				Reported:
Farmington NM, 87401		Project Manager	: V	anessa Fields					9/1/2022 10:56:51AM
		Anions	by EPA	300.0/9056 <i>A</i>	1				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2236026-BLK1)							Prepared: 0	8/30/22	Analyzed: 08/30/22
Chloride	ND	20.0							
LCS (2236026-BS1)							Prepared: 0	8/30/22 A	Analyzed: 08/31/22
Chloride	271	20.0	250		109	90-110			
Matrix Spike (2236026-MS1)				Source:	E208176-0	01	Prepared: 0	8/30/22 A	Analyzed: 08/31/22
Chloride	272	20.0	250	ND	109	80-120			
Matrix Spike Dup (2236026-MSD1)				Source:	E208176-0	)1	Prepared: 0	8/30/22	Analyzed: 08/31/22
Chloride	272	20.0	250	ND	109	80-120	0.0389	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.



# **Definitions and Notes**

l	Logos Resources	Project Name:	Rosa BGT Removals	
l	2010 Afton Place	Project Number:	12035-0114	Reported:
l	Farmington NM, 87401	Project Manager:	Vanessa Fields	09/01/22 10:56

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

Chain of Custody

Page \_ l of l

Project Manager: Vaness Fields Address: 2510 Affice   Lab WO#   FAOS   76   12035-0114   X   Standard   CWA   St	Client: USB SET	20 maritis	Attention: Attention: Bill To	15				b Use				T	AT	EPA F	rograr
Email 1. The days and some sound to the sample of the samp	Project Manager: Vanos	26191-1 0	Address: 2510 Richard	10	Eaby	08 08	17	0	20:	umber 35-0114	1D 20	3D	Standard		SDV
Report due by:  Report due by:  Additional Instructions:  Additional Instructions:  Additional Instructions:  Additional Collection is considered fload and may be grounds for legal action  Sampled By:  Received b	City, State, Zip Carning	1048 march	Phone: SOS 3 No. 1743	Put	-	-	-т	A	nalys	is and Metho	d				RCI
Report due by:  The sampled Date Sampled Match to the Sample South of the Sample South	Phone: 305.320-1	343	Empile to a state of the	wasen lle	12	2					1 1			Casts	
Time Sampled Date Sampled Match Country Sample Date Date Date Date Date Date Date Dat	Email: Vields 2) 10	apscessures/con	1 Jan	A COLOR	V 80	V 801				0			NMICO		TVI
Additional Instructions:    Total Shape Sh	Treport due by.	1			30 b	8O b	/ 802	825	6010	300			V	OT AL	11/
Additional Instructions:    Iteld sampler, attect to the validity and authenticity of this sample. I am aware that tampering with or industrially formative to the validity and authenticity of this sample. I am aware that tampering with or industrially formative to the validity and authenticity of this sample. I am aware that tampering with or industrially formative to the validity and authenticity of this sample. I am aware that tampering with or industrially formative to the validity and authenticity of this sample. I am aware that tampering with or industrially formative to the validity and authenticity of this sample. I am aware that tampering with or industrially formative to the validity and validities and val	Sampled Date Sampled Matri	x No. of Containers Sample BS	2 BC-T Remords	10000000	080/0	380/D	втех ь	VOC by	Metals	Chlorid			1	Remarks	
Additional Instructions:    Ideal Sampler , attest to the validity and authenticity of this sample. Lam aware that tampering with or instantionally instability and such considered fraud and may be grounds for legal action.    Ideal Sampler , attest to the validity and authenticity of this sample. Lam aware that tampering with or instantionally instability and such considered fraud and may be grounds for legal action.    Ideal Sampler , attest to the validity and authenticity of this sample. Lam aware that tampering with or instantionally instability assigned for considered in are at an an age temp almose that less than 6.7 on subsequent days.    Sampler Market Sampler   Date   Time   Received by: (Signature)   Date   Time   Tim	8.40 Spy22 S	The state of the s			W.	X	X		1	X					
Additional Instructions:  In finish sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or infantionally distributionally distributional distributional distributional distributional distributional distributional distributional distributional distribution distributional distribution distributional distribution		402 ROSZ	Unt # 8 BGT# 2		7	X	X		V	X					
Additional Instructions:  Lined sampler), attest to the validity and authenticity of this sample. Lam aware that tampening with or infantonally instabeliagent sample location.  Sampled by:  Sampled by:  Sampled by:  Sampled by:  Sampled by:  Sampled by:  Signature)  Date  Ime  Received by: (Signature)  Date  AVG Temp °C  AVG Temp °C	101 0010		Urit 30A		X	K	7			X					
In (field sampler), attest to the validity and authenticity of this sample. Lam aware that tampering with or intentionally mislabelling the sample location, and the first of collection is considered fraud and may be grounds for legal action.  Sampled by:  Samples requiring thermal preservation must be received on ice the day they are sampled or received in ice at an avg temp above 0 but less than 6.°C on subsequent days.  Relinquished by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  To the samples requiring thermal preservation must be received on ice the day they are sampled or received in ice at an avg temp above 0 but less than 6.°C on subsequent days.  Lab Use Only  Received on ice:  (Y) / N  Time  To the samples requiring thermal preservation must be received on ice the day they are sampled or received in ice at an avg temp above 0 but less than 6.°C on subsequent days.  Time  To the samples requiring thermal preservation must be received in ice the day they are sampled or received in ice at an avg temp above 0 but less than 6.°C on subsequent days.  Time  AVG Temp °C  Sample Matrix: S - Soil, Sd - Soild, Sg - Sludge, A - Agueous, O - Other	जिस्स वीस्ति र	402 Ros	NV+# 18	4	X	X	X		)						
In (field sampler), attest to the validity and authenticity of this sample. Lam aware that tampering with or intentionally mislabelling the sample location, and the first of collection is considered fraud and may be grounds for legal action.  Sampled by:  Samples requiring thermal preservation must be received on ice the day they are sampled or received in ice at an avg temp above 0 but less than 6.°C on subsequent days.  Relinquished by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  To the samples requiring thermal preservation must be received on ice the day they are sampled or received in ice at an avg temp above 0 but less than 6.°C on subsequent days.  Lab Use Only  Received on ice:  (Y) / N  Time  To the samples requiring thermal preservation must be received on ice the day they are sampled or received in ice at an avg temp above 0 but less than 6.°C on subsequent days.  Time  To the samples requiring thermal preservation must be received in ice the day they are sampled or received in ice at an avg temp above 0 but less than 6.°C on subsequent days.  Time  AVG Temp °C  Sample Matrix: S - Soil, Sd - Soild, Sg - Sludge, A - Agueous, O - Other															
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Relinquished by: (Signature)  Date  Received by: (Signature)  Date  Received by: (Signature)  Date  Da	Additional Instructions:														
Relinquished by: (Signature)  Date  Received by: (Signature)  Date  Received by: (Signature)  Date  Da	I (field campler) attest to the validation														
Relinquished by: (Signature)  Relinquished by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  AVG Temp °C  AVG Temp °C	date of time of collection is considered to	raud and may be grounds for legal	action. Sampled by:	sample loc	ation,			Sam	ples rec sed in ic	puring thermal pre- e at an avg temp al	servation mu sove 0 but les	st be recen is than 6 °C	ed on ice the day the on subsequent days	y are sampled	or recer
Received by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  AVG Temp °C  AVG Temp °C	Calr		15 Cattle lete	8/30/2 Date			15	Re	ceive	d on ice:		e Only			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Relinquished by: (Signature)	Date Time	Received by: (Signature)	Date	Tim	e				14	2.		<u>T3</u>		
	Sample Matrix: S - Soil, Sd - Solid, Sg - Sli	idge, A - Aqueous, O - Other		Container T	VDO: g -	alace	C D								



#### **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:	08/30/22 13	:45		Work Order ID:	E208176
Phone:	(505) 787-9100	Date Logged In:	08/30/22 13	:51		Logged In By:	Caitlin Christian
Email:	vfields@logosresourcesllc.com	Due Date:		7:00 (1 day TAT)		20 7	
Chain of	Custody (COC)						
1. Does th	e sample ID match the COC?		Yes				
2. Does th	e number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: <u>Va</u>	anessa Fields		
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes	_		<u>Comment</u>	s/Resolution
Sample T	urn Around Time (TAT)			Γ			
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	ample cooler received?		Yes				
	was cooler received in good condition?						
	<del>-</del>		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling	e received w/i 15	Yes				
	risible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C							
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?	0	NA				
	on-VOC samples collected in the correct containers		Yes				
	appropriate volume/weight or number of sample contain	ners collected?	Yes				
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes	L			
	ate/Time Collected? ollectors name?		Yes No				
	reservation_		NO				
	the COC or field labels indicate the samples were p	reserved?	No				
	imple(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
	the sample have more than one phase, i.e., multipha	se?	No				
	does the COC specify which phase(s) is to be analy		NA				
Subcontr	act Laboratory						
	imples required to get sent to a subcontract laborato	rv?	No				
	subcontract laboratory specified by the client and i	-		Subcontract Lab:	: na		
	struction		_				
<u> </u>							

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

Date

envirotech Inc.

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

# **Release Notification**

#### **Responsible Party**

Responsible Party: LOGOS Operating, LLC		OGRID: 2	289408		
Contact Name: Etta Trujillo			Contact Te	Telephone (505) 324-4154	
Contact email: etrujillo@logosresourcesllc.com			Incident #	# (assigned by OCD) N/A	
Contact mailing address	s: 2010 Afton Pl Far	rmington, NM 874	101		
		Location	of Release So	Source	
Latitude 36.9090691				-107.4204178	
		(NAD 83 in dec	cimal degrees to 5 decin	imal places)	
Site Name: Rosa Unit #	030A		Site Type:	: Well Gas	
Date Release Discovered	ł N/A		API# (if app	pplicable) 30-039-26068	
Unit Letter   Section	Township	Range	Coun	inty	
M 12	31N	06W	Rio Ar		
Surface Owner: State	⊠ Federal □ Tr	ibal ☐ Private (A	Name:	)	
Nature and Volume of Release					
Crude Oil	Volume Released		calculations or specific	volume Recovered (bbls)	
Produced Water	Volume Release	d (bbls)		Volume Recovered (bbls)	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		☐ Yes ☐ No		
Condensate	Volume Released (bbls)			Volume Recovered (bbls)	
☐ Natural Gas	Natural Gas Volume Released (Mcf)		Volume Recovered (Mcf)		
Other (describe)	Volume/Weight	Released (provide	e units)	Volume/Weight Recovered (provide units)	
When the BGT was rem	oved no visible sign loved. The closure s	ns of staining or w camples were analy	ret soil was observe yzed by Envirotech	fiberglass below grade tank on the Rosa Unit #030A.  red. LOGOS collected (1) 5-point composite sample from Labs, and all constituents analyzed were non-detect.  n sampling.	

Received by OCD: 10/19/2022 12:52:19 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	Page 24 of 3	35
Incident ID		
District RP		
Facility ID		
Application ID		

Was this a major If Y release as defined by	ES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ⊠ No	
If VES was immediate notice	given to the OCD2 Dr. whom? To whom? When and by what means (about a mail ato )?
If YES, was immediate notice §	given to the OCD? By whom? To whom? When and by what means (phone, email, etc.)?
	Initial Response
The responsible party m	nust undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the release h	as been stopped.
The impacted area has been	n secured to protect human health and the environment.
Released materials have be	een contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and recover	rable materials have been removed and managed appropriately.
If all the actions described above	ve have <u>not</u> been undertaken, explain why:
has begun, please attach a narr	he responsible party may commence remediation immediately after discovery of a release. If remediation rative of actions to date. If remedial efforts have been successfully completed or if the release occurred a (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are requir public health or the environment. failed to adequately investigate and	on given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and red to report and/or file certain release notifications and perform corrective actions for releases which may endanger. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have d remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In 141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: <u>Etta Trujillo</u>	Title: <u>Regulatory Specialist</u>
Signature: <u>Etta Trujill</u>	Date: <u>10/19/2022</u>
email: <u>etrujillo@logosresou</u>	Telephone: 505-324-4154
OCD Only	
Received by:	Date:

Received by OCD: Form C-141	10/19/2022	12:52:19 PM State of New Mexico
Page 3		Oil Conservation Division

	Page 25 of 35
Incident ID	
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>&gt;100</u> (ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No		
Did the release impact areas <b>not</b> 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  Depth to water determination  Determination of water sources and significant watercourses within ⅓-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps  Laboratory data including chain of custody			

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

Received by OCD: 10/19/2022 12:52:19 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 26 of 3	3 <i>5</i>
Incident ID		
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: <u>Etta Trujillo</u>	Title: Regulatory Specialist	
Signature: <u>(tta Trujillo</u>	Date: 10/19/2022	
email:etrujillo@logosresourcesllc.com_	Telephone: _505-324-4154_	
OCD Only		
Received by:	Date:	

Received by OCD: 10/19/2022 12:52:19 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

	Page 27 of 35
Incident ID	
District RP	
Facility ID	
Application ID	

# Closure

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

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 Dist	crict 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 and regulations all operators are required to report and/or file certain relemay endanger public health or the environment. The acceptance of a C-1 should their operations have failed to adequately investigate and remedia human health or the environment. In addition, OCD acceptance of a C-1 compliance with any other federal, state, or local laws and/or regulations restore, reclaim, and re-vegetate the impacted surface area to the condition accordance with 19.15.29.13 NMAC including notification to the OCD we Printed Name:  Etta Trujillo	ase notifications and perform corrective actions for releases which 141 report by the OCD does not relieve the operator of liability te contamination that pose a threat to groundwater, surface water, 41 report does not relieve the operator of responsibility for.  The responsible party acknowledges they must substantially ons that existed prior to the release or their final land use in when reclamation and re-vegetation are complete.	
Signature: <u>Cta Trujillo</u> Date		
email: <u>etrujillo@logosresourcesllc.com</u> Telephone:	505-324-4154	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of lia remediate contamination that poses a threat to groundwater, surface water party of compliance with any other federal, state, or local laws and/or reg	, human health, or the environment nor does not relieve the responsible	
Closure Approved by:	Date:	
Printed Name:	Title:	

#### Logos Operating Below Grade Tank Closure Plan

Lease Name: Rosa Unit # 030A

API# 30-039-26068

**Description**: Unit M, Section 12, Township, 31N, Range 06W, Rio Arriba County New Mexico

In accordance with NMAC 19.15.17.13, the following information describes the closure plan for below grade tanks (BGT) for Logos Operating, LLC (LOGOS).

#### **General Plan:**

1. Logos will notify the surface owner by certified mail, return receipt requested, unless surface owner is a public entity (BLM/State/Tribal) then an email notification will be sent, of plans to close the BGT at least 72 hours, but no more than 1 week, prior to any closure operation. The notice will include the well name, API number, and location.

72 Hour notice was provided to the NMOCD and the Farmington BLM Field Office. Notification provided in Closure Report. No representative from the BLM or NMOCD was onsite to witness confirmation sampling.

- 2. Logos will notify the appropriate district office verbally and in writing with at least 72 hours of notice but no more than 1 week. The notice will include well name and API number as well as the location containing unit letter, section, township, and range.
  - 72 Hour notice was provided to the NMOCD and the Farmington BLM Field Office. Notification provided in Closure Report. No representative from the BLM or NMOCD was onsite to witness confirmation sampling.
- 3. Logos will remove liquids and sludge from the BGT within 60 days of cessation of operations and dispose of those at a division approved facility.
  - All liquids that were in the BGT were removed and sent to an NMOCD Division approved facilities.
- 4. Within 6 months of cessation of operations, Logos will dispose, reuse/recycle, or reclaim in a division approved manner the BGT, and all unused equipment associated with the BGT.

- 5. The soils beneath the BGT will be tested as follows:
  - a. A five point composite sample including any obvious staining or wet soils shall be taken under BGT and will be analyzed for constituents listed in Table I (see page 2) of 19.15.17.13 NMAC.

On August 30, 2022, LOGOS Operating LLC. removed the fiberglass below grade tank on the Rosa Unit #030A. When the BGT was removed no visible signs of staining or wet soil was observed. LOGOS collected (1) 5-point composite sample from where the BGT was removed. The closure samples were analyzed by Envirotech Labs, and all constituents analyzed were non-detect. No representative from the BLM or NMOCD was onsite to witness all confirmation sampling.

#### **Analytical Results:**

Benzene: Non-Detect BTEX: Non-Detect GRO: Non-Detect DRO: Non-Detect ORO: Non-Detect Chloride: Non-Detect

Components	Tests Method	Limit (mg/kg)
_		≤50' bottom of BGT to GW
Benzene	EPA SW-846 8021B or 8015M	10
BTEX	EPA SW-846 8021B or 8260B	50
ТРН	EPA SW-846 418.1	100
Chlorides	EPA 300.0	600
GRO/DRO	EPA SW-846 80165M	n/a
·		51'-100' bottom of BGT to GW
Benzene	EPA SW-846 8021B or 8015M	10
BTEX	EPA SW-846 8021B or 8260B	50
ТРН	EPA SW-846 418.1	2500
Chlorides	EPA 300.0	10,000
GRO/DRO	EPA SW-846 80165M	1000
·		>100' bottom of BGT to GW
Benzene	EPA SW-846 8021B or 8015M	10
BTEX	EPA SW-846 8021B or 8260B	50
ТРН	EPA SW-846 418.1	2500
Chlorides	EPA 300.0	20,000
GRO/DRO	EPA SW-846 80165M	1000
		1000

6. Within six (6) months of cessation of operations, LOGOS will remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that is a division approved.

All referenced equipment associated with the BGT removal has been removed and utilized for reuse.

7. Upon closing of the BGT, Logos will reclaim the unused BGT location to a safe and stable condition that blends with the surrounding undisturbed area as provided in Paragraph 2 of subsection H of 19.15.17.13 as well as recontouring the area in accordance with paragraph 5 in subsection H of 19.15.17.13 NMAC. The soil cover will be constructed to prevent ponding of water and erosion of the cover material.

The area of the BGT removal has been returned to grade surface. The area will be reclaimed once the well has been plugged and abandoned.

- 8. The reclamation of the BGT area will contain a uniform vegetative cover that reflects a life-form ratio of plus or minus fifty (50%) of pre-disturbance levels and a total percent plant cover of at least seventy (70%) of pre-disturbance levels, excluding noxious weeds. The re-vegetation and reclamation obligations imposed by other applicable federal or tribal agencies that manage the lands will supersede these provisions and govern the obligations. Logos will notify the division when reclamation and re-vegetation is complete.
- 9. Logos will submit a closure report on form C-144 within 60 days of closure completion. The closure report will contain the following:
  - Soil Backfilling and Cover Installation (See Report)
  - Re-vegetation application rates and seeding techniques (See Report)
  - Photo documentation of the site reclamation (Included as an attachment)
  - Confirmation Sampling Results (Included as an attachment)
  - Proof of closure notice (Included as an attachment)





5- Point Composite Sample



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

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

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

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 152006

#### **CONDITIONS**

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	152006
	Action Type:
	[C-144] Below Grade Tank Plan (C-144B)

#### CONDITIONS

Created By	Condition	Condition Date
jburdine	None	10/20/2022