

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

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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company LOGOS Operating LLC	Contact Larissa Farrell
Address: 2010 Afton Place Farmington, NM 87401	Telephone No. (505)787-2027
Facility Name: Federal 1R	Facility Type: Well

Surface Owner Federal	Mineral Owner: Federal	API No. 30-045-24720
-----------------------	------------------------	----------------------

LOCATION OF RELEASE

Unit Letter O	Section 21	Township 24N	Range 09W	Feet from the 1030	North/South Line South	Feet from the 1810	East/West Line East	County San Juan
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	--------------------

Latitude 36.3824997 Longitude -107.7919693 NAD83

NATURE OF RELEASE

Type of Release Oil	Volume of Release 1.5 BBL	Volume Recovered None
Source of Release Back pressure valve from Separator	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 12/12/2017 15:00hr
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

NMOCD
MAY 24 2018

Describe Cause of Problem and Remedial Action Taken.*

Back pressure valve broke on separator and caused oil to leak around pit in contained berm area with liner. Valve was repaired and line was repositioned.

DISTRICT III

Describe Area Affected and Cleanup Action Taken.*

Release was contained within the secondary containment with liner. Roustabout crew cleaned up and hauled off contaminated gravel. Used Simple Green, Oil Gator and soaker pads. Cleaned up equipment. Continued to monitor and soak up additional oil as needed. Sampled as per Conditions of Approval. All constituents were under the allowable limits.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Larissa Farrell	Approved by Environmental Specialist: 	
Title: Environmental/Regulatory Technician	Approval Date: 5/24/18	Expiration Date:
E-mail Address: lfarrell@logosresourcesllc.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5/23/2018	Phone: (505) 787-2027	

NC9181024457

Analytical Report

Report Summary

Client: Logos Operating, LLC

Chain Of Custody Number:

Samples Received: 5/14/2018 10:50:00AM

Job Number: 12035-0102

Work Order: P805020

Project Name/Location: Federal 001R Sampling
Under Tanks

Report Reviewed By:



Date: 5/22/18

Walter Hinchman, Laboratory Director



Date: 5/22/18

Tim Cain, Project Manager



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

Logos Operating, LLC
 PO Box 18
 Flora Vista NM, 87415

Project Name: Federal 001R Sampling Under Tanks
 Project Number: 12035-0102
 Project Manager: Felipe Aragon

Reported:
 22-May-18 13:33

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
West	P805020-01A	Soil	05/14/18	05/14/18	Glass Jar, 4 oz.
	P805020-01B	Soil	05/14/18	05/14/18	Glass Jar, 4 oz.
East	P805020-02A	Soil	05/14/18	05/14/18	Glass Jar, 4 oz.
	P805020-02B	Soil	05/14/18	05/14/18	Glass Jar, 4 oz.
Center	P805020-03A	Soil	05/14/18	05/14/18	Glass Jar, 4 oz.
	P805020-03B	Soil	05/14/18	05/14/18	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Logos Operating, LLC	Project Name:	Federal 001R Sampling Under Tanks	
PO Box 18	Project Number:	12035-0102	Reported:
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	22-May-18 13:33

West
P805020-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.3 %		50-150	1820003	05/14/18	05/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1820003	05/14/18	05/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1820008	05/15/18	05/15/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1820008	05/15/18	05/15/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		100 %		50-150	1820003	05/14/18	05/15/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		113 %		50-200	1820008	05/15/18	05/15/18	EPA 8015D	
Anions by 300.0									
Chloride	32.1	20.0	mg/kg	1	1821001	05/21/18	05/21/18	EPA 300.0	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Logos Operating, LLC
 PO Box 18
 Flora Vista NM, 87415

 Project Name: Federal 001R Sampling Under Tanks
 Project Number: 12035-0102
 Project Manager: Felipe Aragon

Reported:
 22-May-18 13:33

East
P805020-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.9 %		50-150	1820003	05/14/18	05/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1820003	05/14/18	05/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1820008	05/15/18	05/15/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1820008	05/15/18	05/15/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %		50-150	1820003	05/14/18	05/15/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		107 %		50-200	1820008	05/15/18	05/15/18	EPA 8015D	
Anions by 300.0									
Chloride	ND	20.0	mg/kg	1	1821001	05/21/18	05/21/18	EPA 300.0	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Logos Operating, LLC
 PO Box 18
 Flora Vista NM, 87415

 Project Name: Federal 001R Sampling Under Tanks
 Project Number: 12035-0102
 Project Manager: Felipe Aragon

Reported:
 22-May-18 13:33

Center
P805020-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1820003	05/14/18	05/15/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %		50-150	1820003	05/14/18	05/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1820003	05/14/18	05/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1820008	05/15/18	05/15/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1820008	05/15/18	05/15/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %		50-150	1820003	05/14/18	05/15/18	EPA 8015D	
Surrogate: n-Nonane		103 %		50-200	1820008	05/15/18	05/15/18	EPA 8015D	
Anions by 300.0									
Chloride	ND	20.0	mg/kg	1	1821001	05/21/18	05/21/18	EPA 300.0	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Logos Operating, LLC
 PO Box 18
 Flora Vista NM, 87415

 Project Name: Federal 001R Sampling Under Tanks
 Project Number: 12035-0102
 Project Manager: Felipe Aragon

Reported:
 22-May-18 13:33

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1820003 - Purge and Trap EPA 5030A
Blank (1820003-BLK1)

Prepared & Analyzed: 14-May-18

Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	7560		"	8000		94.5	50-150			

LCS (1820003-BS1)

Prepared & Analyzed: 14-May-18

Benzene	4730	100	ug/kg	5000		94.7	70-130			
Toluene	4660	100	"	5000		93.2	70-130			
Ethylbenzene	4660	100	"	5000		93.3	70-130			
p,m-Xylene	9350	200	"	10000		93.5	70-130			
o-Xylene	4620	100	"	5000		92.5	70-130			
Total Xylenes	14000	100	"	15000		93.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7720		"	8000		96.5	50-150			

Matrix Spike (1820003-MS1)

Source: P805017-01

Prepared & Analyzed: 14-May-18

Benzene	4620	100	ug/kg	5000	ND	92.4	54.3-133			
Toluene	4530	100	"	5000	ND	90.7	61.4-130			
Ethylbenzene	4550	100	"	5000	ND	91.0	61.4-133			
p,m-Xylene	9110	200	"	10000	ND	91.2	63.3-131			
o-Xylene	4480	100	"	5000	ND	89.7	63.3-131			
Total Xylenes	13600	100	"	15000	ND	90.7	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7660		"	8000		95.8	50-150			

Matrix Spike Dup (1820003-MSD1)

Source: P805017-01

Prepared & Analyzed: 14-May-18

Benzene	4970	100	ug/kg	5000	ND	99.4	54.3-133	7.31	20	
Toluene	4870	100	"	5000	ND	97.5	61.4-130	7.19	20	
Ethylbenzene	4880	100	"	5000	ND	97.6	61.4-133	6.99	20	
p,m-Xylene	9760	200	"	10000	ND	97.7	63.3-131	6.87	20	
o-Xylene	4790	100	"	5000	ND	95.9	63.3-131	6.65	20	
Total Xylenes	14600	100	"	15000	ND	97.1	63.3-131	6.80	20	
Surrogate: 4-Bromochlorobenzene-PID	7680		"	8000		96.0	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

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

Ph (970) 259-0615 Fr (800) 362-1879

 envirotech-inc.com
 laboratory@envirotech-inc.com

Logos Operating, LLC
 PO Box 18
 Flora Vista NM, 87415

 Project Name: Federal 001R Sampling Under Tanks
 Project Number: 12035-0102
 Project Manager: Felipe Aragon

Reported:
 22-May-18 13:33

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1820003 - Purge and Trap EPA 5030A
Blank (1820003-BLK1)

Prepared & Analyzed: 14-May-18

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.01		"	8.00		100	50-150			

LCS (1820003-BS2)

Prepared & Analyzed: 14-May-18

Gasoline Range Organics (C6-C10)	42.1	20.0	mg/kg	50.0		84.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.30		"	8.00		104	50-150			

Matrix Spike (1820003-MS2)

Source: P805017-01

Prepared & Analyzed: 14-May-18

Gasoline Range Organics (C6-C10)	44.3	20.0	mg/kg	50.0	ND	88.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.26		"	8.00		103	50-150			

Matrix Spike Dup (1820003-MSD2)

Source: P805017-01

Prepared: 14-May-18 Analyzed: 15-May-18

Gasoline Range Organics (C6-C10)	48.0	20.0	mg/kg	50.0	ND	96.0	70-130	8.06	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.21		"	8.00		103	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Logos Operating, LLC	Project Name:	Federal 001R Sampling Under Tanks	
PO Box 18	Project Number:	12035-0102	Reported:
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	22-May-18 13:33

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1820008 - DRO Extraction EPA 3570

Blank (1820008-BLK1)				Prepared & Analyzed: 15-May-18						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	55.6		"	50.0		111	50-200			
LCS (1820008-BS1)				Prepared & Analyzed: 15-May-18						
Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500		95.3	38-132			
Surrogate: n-Nonane	57.7		"	50.0		115	50-200			
Matrix Spike (1820008-MS1)				Source: P805020-01		Prepared & Analyzed: 15-May-18				
Diesel Range Organics (C10-C28)	475	25.0	mg/kg	500	ND	95.1	38-132			
Surrogate: n-Nonane	58.4		"	50.0		117	50-200			
Matrix Spike Dup (1820008-MSD1)				Source: P805020-01		Prepared & Analyzed: 15-May-18				
Diesel Range Organics (C10-C28)	480	25.0	mg/kg	500	ND	95.9	38-132	0.911	20	
Surrogate: n-Nonane	57.4		"	50.0		115	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Logos Operating, LLC
 PO Box 18
 Flora Vista NM, 87415

 Project Name: Federal 001R Sampling Under Tanks
 Project Number: 12035-0102
 Project Manager: Felipe Aragon

Reported:
 22-May-18 13:33

Anions by 300.0 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1821001 - Anion Extraction EPA 300.0/9056A										
Blank (1821001-BLK1)				Prepared & Analyzed: 21-May-18						
Chloride	ND	20.0	mg/kg							
LCS (1821001-BS1)				Prepared & Analyzed: 21-May-18						
Chloride	255	20.0	mg/kg	250		102	90-110			
Matrix Spike (1821001-MS1)				Source: P805020-01		Prepared & Analyzed: 21-May-18				
Chloride	295	20.0	mg/kg	250	32.1	105	80-120			
Matrix Spike Dup (1821001-MSD1)				Source: P805020-01		Prepared & Analyzed: 21-May-18				
Chloride	295	20.0	mg/kg	250	32.1	105	80-120	0.0543	20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Logos Operating, LLC
PO Box 18
Flora Vista NM, 87415

Project Name: Federal 001R Sampling Under Tanks
Project Number: 12035-0102
Project Manager: Felipe Aragon

Reported:
22-May-18 13:33

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Project Information

Chain of Custody

Page 1 of 1

Client: Logan operating
Project: Federal 0012 Sampling under tracks
Project Manager: F. Aragon
Address: _____
City, State, Zip: _____
Phone: _____
Email: Gcrabtree Admin Il Paragon

Lab Use Only

Lab WO#

P805020

Job Number

12035-0102

Sample ID

Lab
Number

West

1

East

2

3

Date

Lab Use Only

Received on ice: Y / N

T1

T2

T3

AVG Temp °C 4

