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	NCS1805448077
District RP	
Facility ID	
Application ID	

# **Release Notification**

### Doggo on sible Dogge

			Kespo	onsidie Party	y	
Responsible	Party Mar	alex Disposal, LLC	2	OGRID	193838	
Contact Nam	ne Diar	ne Togstad		Contact Te	elephone (970) 563-4000	
Contact emai	il diane.togs	tad@edkt-llc.com		Incident #	(assigned by OCD) NCS1805448077	
Contact mail	ing address	P.O. Box 338, Igna	acio, CO 81137	I		
			Location (	of Release So	ource	
Latitude	36.8791	38		Longitude_		_
			(NAD 83 in decir	mal degrees to 5 decim	mal places)	
Site Name Ce	enterpoint S	WD 001		Site Type I	Disposal Well	
Date Release	Discovered	February 23, 2018		API# (if app	plicable) 30-045-33464	
Unit Letter	Section	Township	Range	Coun	ntv	
P	24	31N	11W	San Jı	<u> </u>	
		_				
Surface Owner	r: State	Federal Tri	bal Private (Na	ame: <u>Maralex Dis</u>	sposal LLC)	
			Nature and	Volume of I	Release	
				alculations or specific	justification for the volumes provided below)	
Crude Oil		Volume Release			Volume Recovered (bbls)	
Noduced Produced	Water	Volume Release	d (bbls) 15		Volume Recovered (bbls) 0	
		Is the concentrat	ion of dissolved ch >10,000 mg/l?	loride in the	☐ Yes ☒ No	
Condensa	ite	Volume Release			Volume Recovered (bbls)	

Cause of Release On February 23, 2018 a workover rig during tubing integrity testing had a valve and nipple failed to hold back pressure during the procedure. Approximately 15 BBLS was released and contained within a temporary secondary berm constructed around the workover rig and wellhead at grade.

Volume Recovered (Mcf)

Volume/Weight Recovered (provide units)

Volume Released (Mcf)

Volume/Weight Released (provide units)

Natural Gas

Other (describe)

# Page 2 Oil Conservation Division

	Page 1
Incident ID	NCS1805448077
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	ng 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 phomust be notified 2 days prior to liner inspection) <b>Bermed are</b>	otos of the liner integrity if applicable (Note: appropriate OCD District office a at ground surface, used aerial map.
□ Laboratory analyses of final sampling (Note: appropriate)	ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file of may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or refrestore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the	•
Printed Name: <u>Diane Togstad</u>	Title: Regulatory Tech
Signature: Nume fogstad	Date: 6/01/2022
Printed Name:Diane Togstad  Signature:	Telephone: 970-563-4000
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible paremediate contamination that poses a threat to groundwater, surfaparty of compliance with any other federal, state, or local laws a	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by: Nelson Velez  Nelson Velez	Date: 06/01/2022
Printed Name: Nelson Velez	Title: Environmental Specialist - Adv
	<b>.</b>



P.O. Box 338 Ignacio, Colorado 81137 (970) 563-4000 FAX (970) 563-4116

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

Re: Closure Request

Centerpoint SWD (API 05-045-33464)

Maralex Disposal, LLC Incident Number NCS

San Juan County, New Mexico

Dear Mr. Smith,

Maralex Disposal, LLC. present the following report detailing remediation of the impacted area located at Unit P, Section 24, Township 31N, Range 11W in San Juan County, New Mexico. The purpose of the soil sampling and remediation activities were to address impacts of the soil after a release of produced water from a workover rig into a temporary containment berm around the wellhead.

On February 23, 2018 Maralex Disposal (MDL) had a workover rig completing workover operations testing tubing integrity when a valve and nipple failed to hold back pressure during the procedure. Approximately 15 BBLS was released and contained within a temporary secondary berm constructed around the workover rig and wellhead. New Mexico Oil Conservation Division was notified in person and via email and MDL received the incident number NCS 1805448077. Based on the soil sampling results and remediation, MDL is requesting no further action on this release.

#### Background

MDL characterized the release according to Table 1, *Closure Criteria for Soils Impacted by a Release*, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). The nearest fresh water well is located 1,115.7 feet from the Centerpoint wellhead with a depth of 43 feet and a depth to water level of 24 feet. The nearest watercourse is located 0.375 miles North of the Centerpoint impact area. The nearest United States Geological Survey (USGS) groundwater monitoring well is located approximately 15 miles northwest of the Centerpoint impact area and reported a depth to water level in 2014 to be 290 feet (closest measurement prior to the release). The impacted site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet any occupied structure or wetland.



The NMOCD Table 1 closure criteria for soil sampling apply and all concentrations for BTEX and hydrocarbons were found to be below the required concentrations.

Sampling

Sampling occurred after the workover rig had completed its operations. A five spot pattern in the impacted area of approximately 3000 square feet and a background sample was taken with NMOCD representatives present during the entire sampling activity.

Remediation

The impacted area was all within the well pad and contained specifically around the wellhead with a temporary berm that was constructed to contain any potential release during operations. After operations and sampling commenced the impact area was remediated by removing any vegetation and removing any stained gravel and soil that was present.

Conclusion

MDL is requesting that this release be closed because of the soil sampling testing in the concentrations allowed by NMOCD and the remediation activities to bring the well pad back into compliance.

Sincerely,

Maralex Disposal, LLC.

Jordan Reid

Production Technician



### Attachments:

Figure 1: Site Map

Figure 2: Site Map – Sampling Sites

Figure 3: Centerpoint Water Sources Map

Figure 4: National Wetlands Map

Attachment 1: USGS Groundwater Watch Report Attachment 2: Green Analytica Sampling Report From: Smith, Cory, EMNRD

Sent: Friday, February 23, 2018 1:29 PM

**To:** 'Production Technician' < <a href="mailto:maralextech@gmail.com">maralextech@gmail.com</a>>

Cc: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Kuehling, Monica, EMNRD <monica.kuehling@state.nm.us>

Subject: ATTN Jordan Reid Centepoint SWD Produce Water Release.

Jordan,

As discussed the OCD has received Maralex Disposal initial C-141 on February 20, 2018 for a produce water spill that occurred on February 9, 2018 at the Centerpoint SWD (30-045-33464). The OCD has approved the C-141 with the attached and following conditions of approval:

- Maralex will sample and/or start remediation of the release area no later than May 9, 2018
- Maralex will sample for TPH, BTEX, Benzene and Chlorides
- Maralex will schedule with OCD District III Environmental for any confirmation sampling for both the excavation and/or release area with at least 24 hour notice.

If you have any questions please give me a call.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Production Technician < maralextech@gmail.com >

Sent: Wednesday, June 6, 2018 2:43 PM

To: Smith, Cory, EMNRD < Cory. Smith@state.nm.us >

Subject: Sample collection

Hi Cory,

I apologize for getting back to you late. There was a rig on Centerpoint SWD for a while after the spill and you didn't want the samples taken when there was a rig on location. I have contacted Green Analytical for the testing and will pick up sample containers this week. Do you know how many samples need to be taken and who do I contact to have come out and witness the sampling?

Thanks,

Jordan Reid Maralex Resources maralextech@gmail.com (970) 563-4000 From: Smith, Cory, EMNRD

Sent: Wednesday, June 6, 2018 3:53 PM

To: <u>Production Technician</u>
Cc: <u>Fields, Vanessa, EMNRD</u>
Subject: RE: Sample collection

Hello,

I do not know how many samples as I do not know the impacted size from the release.

I would like to witness the sampling when were you planning on going out I am covered up pretty much the rest of the week.

Thanks,

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Production Technician <maralextech@gmail.com>

Sent: Monday, June 11, 2018 10:41 AM

To: Smith, Cory, EMNRD < <a href="mailto:Cory.Smith@state.nm.us">Cory.Smith@state.nm.us</a>>

Subject: RE: Sample collection

Hi Cory,

Sorry about getting back to you late, I had to be in the field the later part of last week. The area affected is about 3000 square feet. If you let me know how many samples are required I can pick up the correct number of containers and I am available almost anytime this week to meet with you for recovering samples.

Thanks,

Jordan Reid Maralex Resources maralextech@gmail.com (970) 563-4000 From: Production Technician < maralextech@gmail.com >

Sent: Friday, August 3, 2018 12:55 PM

To: Smith, Cory, EMNRD < <a href="mailto:Cory.Smith@state.nm.us">Cory.Smith@state.nm.us</a>>

Subject: CenterPoint soil samples results

Hi Cory,

My apologies for the late response, got lost in the shuffle after my vacation. Attached are the results from Green Analytica on the Centerpoint spill.

Please let me know if anything else is needed.

Thanks,

Jordan Reid Maralex Resources maralextech@gmail.com (970) 563-4000

From: Smith, Cory, EMNRD

Sent: Friday, August 3, 2018 2:25 PM

**To:** 'Production Technician' <<u>maralextech@gmail.com</u>> **Cc:** Fields, Vanessa, EMNRD <<u>Vanessa.Fields@state.nm.us</u>>

Subject: RE: CenterPoint soil samples results

Jordan,

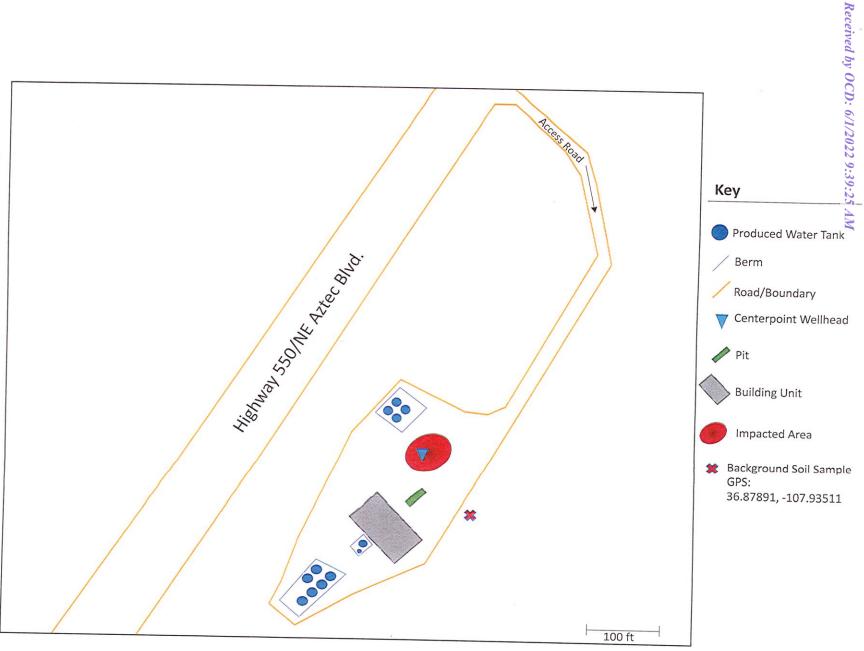
Thank you, looks like the release is below the closure standards. I would recommend raking any surface oil stains like mentioned to avoid and future issues. Please send in the Final C-141 with all the required attachments no later than August 31, 2018.

Thanks,

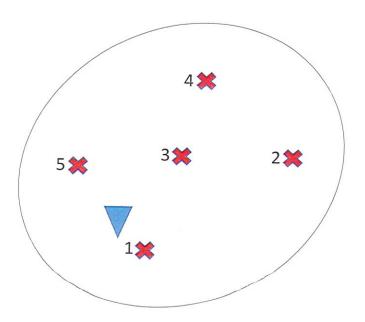
Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

### Site Map

Centerpoint SWD 05-045-33464 P-S24-T31N-R11W NMPM Maralex Disposal, LLC.



Released to Imaging: 6/1/2022 11:23:25 AM



Centerpoint Wellhead

Impacted Area

Soil Sample Location

GPS:

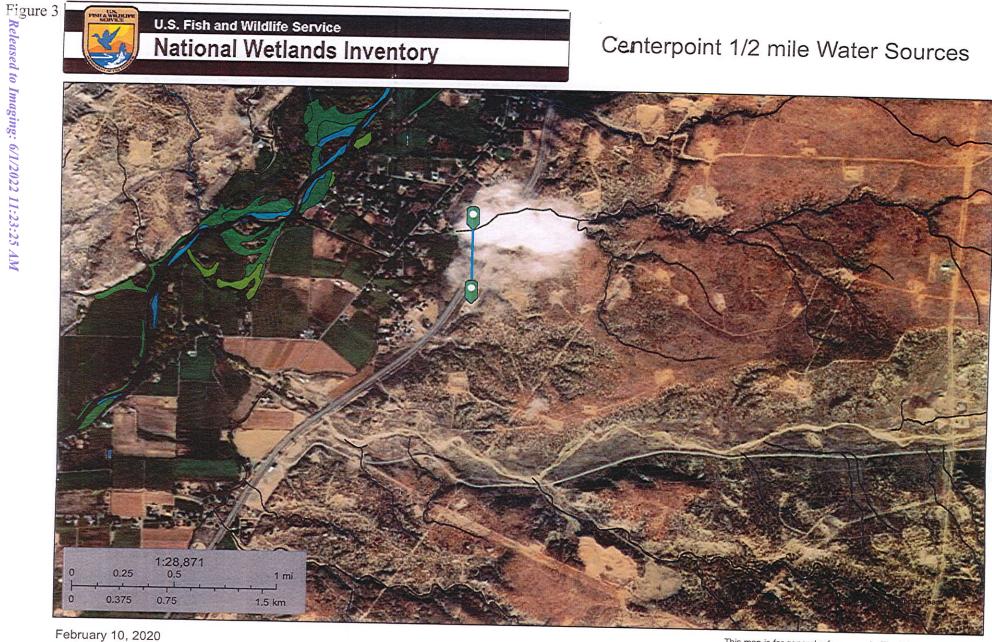
1) 36.87912, -107.93531
2) 36.87918, -107.93529
3) 36.87916, -107.93532

4) 36.87920, -107.93535 5) 36.87917, -107.93538

# U.S. Fish and Wildlife Service

# National Wetlands Inventory

# Centerpoint 1/2 mile Water Sources





Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

> National Wetlands Inventory (NWI) This page was produced by the NWI mapper

iguic +

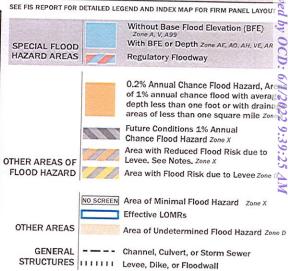
cleased to Imaging: 6/1/2022 11.

# National Flood Hazard Layer FIRMette





#### Legend



Unmapped

No Digital Data Available



MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/11/2020 at 1:54:32 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

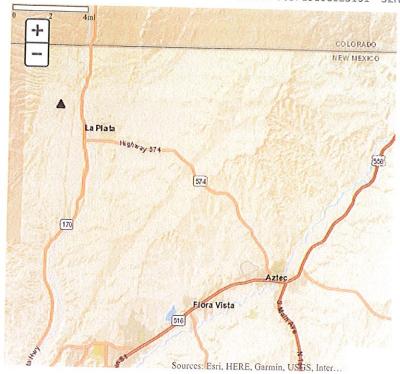


Groundwater Watch

USGS Home Contact USGS Search USGS

Latest News...

# Site Number: 365719108125101 - 32N12WS28 334 BDMKPC1



#### DESCRIPTION:

Latitude 36°57'18.50", Longitude 108°12'51.30" NAD83 San Juan County, New Mexico, Hydrologic Unit 14080105

Well depth: 324.4 feet

Land surface altitude: 6,043.26feet above NAVD88. Well completed in "Pictured Cliffs Sandstone" (211PCCF) local aquifer

local aquiler

#### AVAILABLE DATA:

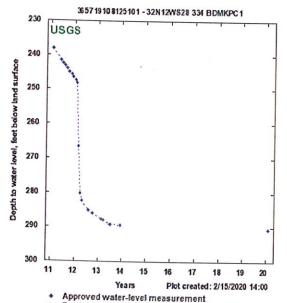
Data Type	Begin Date	End Date	Count
Field groundwater-level		2020-01-	20
measurements	26	29	20

#### OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

#### Groundwater Watch Help Page





Summary for Period of Record Periodic Water Levels

Depth to water level, feet below land surface

Approved Periodic Water Level Values

Begin Date End Date Number of Values

 01/26/11
 01/29/20
 20

 Highest WL
 Date of Highest WL
 Lowest WL
 Date of Lowest WL

 238.04
 01/26/11
 290.5
 01/29/20

Groundwater Levels Options

View latest data on NWISWeb

Download groundwater levels in text format

Return to Groundwater Watch

Return to County Page

Return to State Page

\*References to non-Department of the Interior (DOI) products do not constitute an endorsement by the DOI.

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey URL: https://groundwaterwatch.usgs.gov/AWLSites.asp

Provisional water-level measurement

Recayed by OCD: 6/1/2022 9:39:25 AM

Last update: Thursday, September 26, 2019 at 13:24

Page displayed in 0.109 seconds.





Groundwater Watch

USGS Home Contact USGS Search USGS

Latest News...

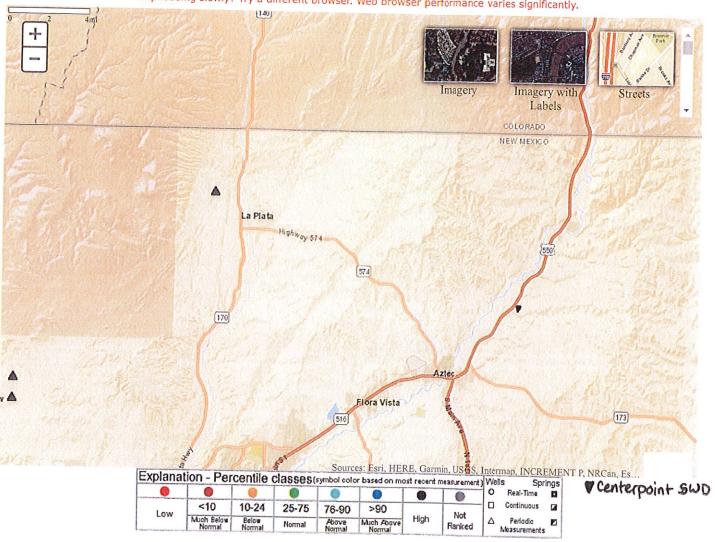
In cooperation with...



# New Mexico Active Water Level Network

Click site symbol to open information pop-up. Click Station ID in pop-up for county information and site selection.

Map loading slowly? Try a different browser. Web browser performance varies significantly.



Map generated 2/13/2020 11:07:48 AM







New Mexico Counties depicted on the state location map with active wells and springs

Counties	Total Sites	Real-Time	Continuous	Periodic	Springe
Bernalillo County	164	-	62	102	
Catron County	41	_	-	41	1.=0
Chaves County	1	_	-	41	-
Cibola County	4	-	_	1	
Colfax County	1	2	-	4	-

Received	hv	OCD:	6/1/2022	9:39:25	AM

Curry County	135				
De Baca County		-	-	135	-
Dona Ana County	5	-	-	5	-
Eddy County	225	11	7	207	-
Guadalupe County	1	-	1	-	-
Harding County	4	1	-	3	100
Lea County	1	-	-	1	-
	2	2		-	-
Lincoln County	1	1	-	-	
McKinley County	28	1 <del>-</del>	_	28	-
Mora County	2	-	-	2	_
Otero County	1	-	_	_	1
Quay County	14	_	2	14	_
Roosevelt County	15	-	_	15	
Sandoval County	27	1	7	19	-
San Juan County	15	_	,		-
San Miguel County	14	2	-	15	-
Santa Fe County	34	2	-	12	-
Sierra County	28		22	10	-
Socorro County		1	2	25	-
Taos County	35	_	-	35	-
Torrance County	9	-	1	8	-
Union County	2	-	-	2	-
and the	5	7.0	-	5	-
Valencia County	17	3	2	12	-
Number of active NM wells & springs:	831	24	104	702	1

#### Return to National Page

\*References to non-Department of the Interior (DOI) products do not constitute an endorsement by the DOI.

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

URL: https://groundwaterwatch.usgs.gov/StateMap.asp
Page Contact Information: Contact the GroundWater Watch Support Team Last update: Tuesday, September 24, 2019 at 09:01

Page displayed in 47,702.160 seconds.





<sup>\*</sup>References to non-Department of the Interior (DOI) products do not constitute an endorsement by the DOI. By viewing the Google Maps API on this web site the user agrees to these TERMS.



75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

27 June 2018

Jordan Reid Maralex PO Box 338 Ignacio, CO 81137

RE: BTEX/TPH & CI

Enclosed are the results of analyses for samples received by the laboratory on 06/15/18 15:20. The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

If you any any further assistance, please feel free to contact me.

Sincerely,

Debbie Zufelt

Reports Manager

Deblie Zufett

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <a href="http://greenanalytical.com/certifications/">http://greenanalytical.com/certifications/</a>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



www.GreenAnalytical.com

Maralex

PO Box 338

Ignacio CO, 81137

Project: BTEX/TPH & CI

Project Name / Number: [none]

Project Manager: Jordan Reid

Reported:

06/27/18 16:29

### ANALYTICAL REPORT FOR SAMPLES

Sample ID				
	Laboratory ID	Matrix	Date Sampled	Date Received
Site	1806147-01	Solid	06/15/18 14:15	06/15/18 15:20
Background	1806147-02	Solid	06/15/18 14:25	06/15/18 15:20

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 2 of 8

eldie Zufett



www.GreenAnalytical.com

Maralex

PO Box 338 Ignacio CO, 81137 Project: BTEX/TPH & Cl

Project Name / Number: [none]

Project Manager: Jordan Reid

Reported:

06/27/18 16:29

Site

1806147-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Subcontracted Cardinal	Laboratories								
Inorganic Compounds									
Chloride	768	16.0		mg/kg	4	06/20/18	4500-CI-B		HM
Volatile Organic Compounds by EPA	Method 8021								
Benzene*	< 0.050	0.050	0.002	mg/kg	50	06/21/18	8021B		MS
Toluene*	< 0.050	0.050	0.002	mg/kg	50	06/21/18	8021B		MS
Ethylbenzene*	< 0.050	0.050	0.004	mg/kg	50	06/21/18	8021B		MS
Total Xylenes*	< 0.150	0.150	0.010		50	06/21/18	8021B		MS
Total BTEX	<0.300	0.300	0.018		50	06/21/18	8021B		MS
Surrogate: 4-Bromofluorobenzene (PID)			113 %	69.8-142		06/21/18	8021B		MS
Petroleum Hydrocarbons by GC FID									
GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	06/21/18	8015B		MS
DRO >C10-C28*	624	10.0	1.56	mg/kg	1	06/21/18	8015B		
EXT DRO >C28-C36	386	10.0	1.56	mg/kg	1	06/21/18	8015B		MS MS
Surrogate: 1-Chlorooctane			83.0 %	41-142		06/21/18	8015B		
Surrogate: 1-Chlorooctadecane				37.6-147		06/21/18	8015B		MS MS

Green Analytical Laboratories

Deldie Zufett

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 3 of 8



www.GreenAnalytical.com

Maralex

PO Box 338 Ignacio CO, 81137 Project: BTEX/TPH & CI

Project Name / Number: [none]

Project Manager: Jordan Reid

Reported:

06/27/18 16:29

#### Background

#### 1806147-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Subcontracted Cardinal I	aboratories								
Inorganic Compounds									
Chloride	<16.0	16.0		mg/kg	4	06/20/18	4500-CI-B		HM
Volatile Organic Compounds by EPA M	ethod 8021								
Benzene*	< 0.050	0.050	0.002	mg/kg	50	06/21/10	00000		gross
Toluene*	< 0.050	0.050	0.002			06/21/18	8021B		MS
Ethylbenzene*	< 0.050	0.050	0.002	mg/kg	50	06/21/18	8021B		MS
Total Xylenes*	< 0.150			mg/kg	50	06/21/18	8021B		MS
Total BTEX		0.150	0.010	mg/kg	50	06/21/18	8021B		MS
	<0.300	0.300	0.018	mg/kg	50	06/21/18	8021B		MS
Surrogate: 4-Bromofluorobenzene (PID)			113 % 6	59.8-142		06/21/18	8021B		MS
Petroleum Hydrocarbons by GC FID									
GRO C6-C10*	<10.0	10.0	5.30	mg/kg	ī	06/26/18	90150		
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg			8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56		1	06/26/18	8015B		MS
Surrogate: I Chlaman	10.0	10.0	1.30	mg/kg	1	06/26/18	8015B		MS
Surrogate: 1-Chloroctane			85.9%	41-142		06/26/18	8015B		MS
Surrogate: 1-Chlorooctadecane			76.4 % 3.	7.6-147		06/26/18	8015B		MS

Green Analytical Laboratories

Deldie Zufett

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Debbie Zufelt, Reports Manager

Page 4 of 8



www.GreenAnalytical.com

Maralex PO Box 338

Ignacio CO, 81137

Project: BTEX/TPH & Cl

Project Name / Number: [none]
Project Manager: Jordan Reid

Reported: 06/27/18 16:29

### Inorganic Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8062001 - 1:4 DI Water										
Blank (8062001-BLK1)			Pren	ared & Anal	vzed: 06/2/	)/18				
Chloride	ND	16.0	mg/kg	area ce i mai	yzed. 00/20	710				
LCS (8062001-BS1)			Prepa	ared & Anal	yzed: 06/20	/18				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (8062001-BSD1)			Prepa	ared & Anal	yzed: 06/20	/18				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

# Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting		Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8062101 - Volatiles										

Blank (8062101-BLK1)			Prep	ared & Analyzed:	06/21/18
Surrogate: 4-Bromofluorobenzene (PID)	0.104		mg/kg	0.100	1
Benzene	ND	0.050	mg/kg		
Ethylbenzene	ND	0.050	mg/kg		
Toluene	ND	0.050	mg/kg		
Total BTEX	ND	0.300	mg/kg		

7.09

0.150

Totale	ND	0.050	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
LCS (8062101-BS1)			Prep	ared & Analyzed	: 06/21/18				
Surrogate: 4-Bromofluorobenzene (PID)	0.102		mg/kg	0.100	102	69.8-142			
Benzene	2.21	0.050	mg/kg	2.00					
Ethylbenzene	2.18	0.050	mg/kg	2.00	110	74.5-124			
Toluene	2.19	0.050	mg/kg	2.00	109 110	78.6-122 78.8-122			
Total Xylenes	6.83	0.150	mg/kg	6.00	110	79.7-123			
LCS Dup (8062101-BSD1)			Prep	ared & Analyzed	: 06/21/18				
Surrogate: 4-Bromofluorobenzene (PID)	0.0998		mg/kg	0.100	99.8	69.8-142			
Benzene	2.30	0.050	mg/kg	2.00			4.00		
Ethylbenzene	2.28	0.050	mg/kg	2.00	115	74.5-124	4.29	15.2	
Toluene	2.28	0.050			114	78.6-122	4.52	15.4	
Total Vulance	2.20	0.030	mg/kg	2.00	114	78.8-122	4.11	15.1	

mg/kg

6.00

Green Analytical Laboratories

Total Xylenes

Deldie Zufett

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

118

79.7-123

3.67

15.2

69.8-142

Debbie Zufelt, Reports Manager

Page 5 of 8



www.GreenAnalytical.com

Maralex

PO Box 338

Ignacio CO, 81137

Project: BTEX/TPH & Cl

Project Name / Number: [none]

Project Manager: Jordan Reid

Reported:

06/27/18 16:29

# Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	DDD	RPD	N
Batch 8062003 - General Prep - Organics			Omio	Level	Result	70KEC	Lillins	RPD	Limit	Notes
Blank (8062003-BLK1)			Prep	ared & Anal	lvzed: 06/20	)/18				
Surrogate: 1-Chlorooctadecane	39.6		mg/kg	50.0		79.2	37.6-147			
Surrogate: 1-Chlorooctane	44.1		mg/kg	50.0		88.2	41-142			
DRO >C10-C28	ND	10.0	mg/kg	30.0		00.2	41-142			
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
LCS (8062003-BS1)			Prep	ared & Anal	yzed: 06/20	/18				
Surrogate: 1-Chlorooctadecane	43.3		mg/kg	50.0	•	86.6	37.6-147			
Surrogate: 1-Chlorooctane	46.8		mg/kg	50.0		93.5	41-142			
DRO >C10-C28	200	10.0	mg/kg	200		99.8	72.9-138			
GRO C6-C10	189	10.0	mg/kg	200		94.7	76.5-133			
Total TPH C6-C28	389	10.0	mg/kg	400		97.3	78-132			
LCS Dup (8062003-BSD1)		200	Prepa	ared & Analy	yzed: 06/20	/18				
Surrogate: 1-Chlorooctadecane	43.2		mg/kg	50.0		86.5	37.6-147	-		
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.3	41-142			
DRO >C10-C28	194	10.0	mg/kg	200		97.1	72.9-138	2.78	20.6	
GRO C6-C10	188	10.0	mg/kg	200		94.0	76.5-133	0.775	20.6	
Total TPH C6-C28	382	10.0	mg/kg	400		95.6	78-132		20.6	
			68	.00		22.0	10-132	1.80	18	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 6 of 8



www.GreenAnalytical.com

Maralex

Project: BTEX/TPH & CI

PO Box 338

Project Name / Number: [none]

Reported:

Ignacio CO, 81137

Project Manager: Jordan Reid

reported.

06/27/18 16:29

#### Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

\*Results reported on as received basis unless designated as dry.

RPD LCS

Laboratory Control Sample (Blank Spike)

RL

Report Limit

MDL

Method Detection Limit

Relative Percent Difference

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 7 of 8

Deldie Zufett

Apalytical	
Analytical	

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006

	aboratories	F	(970) 247-42: (970) 247-42:		vice@	gree le St	enanalytic Durang	o. CO	r dzuf	elt@gn	eenanalyt	ical.com		C	DC - I	Revisio	on 5.0	l	
Address: 00 0	nt: Maralex Dispos	ial			T			ll to (if				1		A 1	LALV	010. 5			
Address: PO B	0X 338				P.	.0. #:				· · · · · ·		+		Ai	VALY.	SIS R	=QUE	ST	
City: 19nacio	1563-4000 Nordan Reid Maraleytach	State: CO	Zip: 311	37	C	ompa	nny:				-		5						
Prione #: (970)	1563-4000	970 - 799 -	3572		At	tta:							Mrs	3	12)	1 1			
Contact Person:	Jordan Beid				Ac	ddre	cs.		-		1981	-	RIEV SOLDIO	14500 0V	nerthing				
		@amail.co	m			tv:	J		-				5	0	13				
Project Name(option	nal):	U				ate:	,					_	07.	12	13				
								ip:				_ 4	スプトン	12	2				
Sampler Name (Pri	int):					one	#:					_ 7	- 4	4			- 1		
·				lected	_	Matr	ix (check o		-	,		9	7 7	7 0	3				
									-	of con	tainers	_ 1	7 6	1	4				
For Lab Use Sample Name or Location			Date	Time	ROUNDWATER	JRFACEWATER	WASTEWATER PRODUCEDWATER SOII	DRINKING WATER	No preservation (general)	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>2</sub> Other:	her:	90 20	Chlocides					
1806-147-01	Site		6/15/18		Ō	S	X & S		°Z	H I	포 등	Other:	4						
1806-147-01	Site Background		6/15/18	2:15		+	K		$\vdash$										_
	0		e jioji e	0.00			×		$\vdash$			-							
		APACTON OF									T	_							
				-											-	_	_	-	-
												1			-	_	-	-	-
												1		-	-	-	-	+-	-
									T	11		-	-		-	-			
						_						1		-	-		_	-	-
EASE NOTE: GAL's liability and of GAL within 30 days after complete	client's exclusive remedy for any claim ansin	ig whether based in contract or	fort, shall be irrated to	the amount pays by t	no class										-	-	-	-	
GAL regardless of wnother such	chert's exclusive remedy for any claim arisin on. In no event shall GAL be (sofie for recided claim is based upon any of the above stated	ental or consequental damages I reasons or otherwise.	i, including without limit	ation, business inten	ruptions	loss o	fuse or loss	f claims inc if profits inc	lucing tr	client, its u	gligence and lubsidianes, a	any other car	se whatso	ever shall t	o deemed	warved unles	s made in w	nting and re-	ceivec
5/1	AD.	6115/18	Received By:	1	7						ITIONAL.			out a		ort to Sta	rance or ser	vices hereun	nder
Hinquished By:	a street	1520	Received By:	tw (	Vc	TI	L			1					Yes	No		,	
Muss	Clark	Time: 1/055	Received By:	9,000	1	ix	2005	2											
Kangaroo I	express	Time: 0847	Received By:				-			2.8	126°C	#1	anu						
and anotice by,		Date:	Received By:		-				-	19	4c								
		† GAL cannot	alwaye accord	Secretaria S						Tem	Crature at	receipt:	CHEC	KED RV	.				

(970) 247-4220

† GAL cannot always accept verbal changes. Please fax or email written change requests. \* Chain of Custody must be signed in "Reliquished By:" as an acceptance of services and all applicable charges.

Just Click Printing Form #17-0301

Received by OCD: 6/1/2022 9:39:25 AM

Page 8 of 8

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 112569

#### **CONDITIONS**

Operator:	OGRID:
MARALEX RESOURCES INC	13998
P.O. Box 338	Action Number:
Ignacio, CO 81137	112569
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
nvelez	None	6/1/2022