	Received l	by OCD:	1/27/2023	9:08:17 AM
--	------------	---------	-----------	------------

Page 1 of 265

6 Form C-141 Page 3

0 State of New2Mexico Oil Conservation Division

	I ugc I oj z
RIncident ID	nRM2026529539
District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

This information must be provided to the appropriate district office no taler man 50 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	<50(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?	X 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 verticontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil

<u>Cha</u>	racterization Report Checklist: Each of the following items must be included in the report.
$\times$	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
X	Field data
$\times$	Data table of soil contaminant concentration data
$\times$	Depth to water determination

- Determination of water sources and significant watercourses within ½-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: 1/27/2023 9:08:17 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page 2 of 265

Incident ID	nRM2026529539
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the Galded to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	offications and perform corrective actions for releases which may endanger of DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In		
Printed Name: Wes Mathews	Title: EHS Professional		
rinted Name: Wes Mathews Title: EHS Professional  Date: 1/27/2023			
email: _wesley.mathews@dvn.com	Telephone: <u>575-513-8608</u>		
OCD Only			
Received by: Jocelyn Harimon	Date: 01/31/2023		

Page 3 of 265

Incident ID	nRM2026529539
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.

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rule and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.  Printed Name: Wes Mathews  Title: EHS Professional  Date: 1/27/2023  Telephone: 575-513-8608
OCD Only
Received by: Jocelyn Harimon Date:01/31/2023
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate a remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Ashley Maxwell Date: 2/02/2023
Printed Name: Ashley Maxwell Title: Environmental Specialist



Pima Environmental Services, LLC 5614 N. Lovington Hwy. Hobbs, NM 88240 575-964-7740

January 26, 2023

NMOCD District 2 811 S. First Street Artesia, NM 88210

Re: Site Remediation and Closure Report

Parkway West SWD #001 API No. 30-015-40835

GPS: Latitude 32.635774 Longitude -104.069381

UL "D", Sec. 27, T19S, R29E

**Eddy County, NM** 

NMOCD Ref. No. NRM2026529539

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment, remediation activities, and submit this closure report for a produced water release that occurred at the Parkway West SWD #001 (Parkway). The initial C-141 was submitted on September 14, 2020 (Appendix C). This incident was assigned Incident ID NRM2026529539, by the New Mexico Oil Conservation Division (NMOCD).

#### **Site Characterization**

The Parkway is located approximately seventeen (17) miles northeast of Carlsbad, NM. This spill site is in Unit D, Section 27, Township 19S, Range 29E, Latitude 32.635774, Longitude -104.069381, in Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of the Rustler Formation-Siltstone, gypsum, sandstone, and dolomite (Upper Permian). According to the United States Department of Agriculture Natural Resources Conservation Service soil survey, the soil in this area consists of two types; Kimbrough-Stegall loams and Reeves-Gypsum land complex, both of which have 0 to 3 percent slopes. (Appendix B). The drainage courses in this area are well-drained. There is a high potential for karst geology around the Parkway (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 60 feet below grade surface (BGS). According to the United States Geological Survey, depth to the nearest groundwater is 67 feet BGS. The closest waterway is a salt pond located approximately 4.73 miles to the southeast of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29								
Depth to Groundwater		Constituent & Limits						
(Appendix A)	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene			
<50' (High Karst)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg			
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg			
>100′	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg			

Reference Figure 2 for a Topographic Map.

#### **Release Information**

NRM2026529539: On September 12, 2020, a truck driver arrived on site to find an open 3" valve near the load pots that was releasing fluid onto the pad surface. The released fluid was calculated to be approximately 237 barrels (bbls) of produced water. Approximately 70 bbls of total fluid was recovered via vacuum truck. All fluid remained on the pad.

#### **Site Assessment and Soil Sampling Results**

On September 15, 2020, Pima Environmental conducted a site assessment and obtained soil samples from the affected area on the pad. Laboratory results of this sampling event can be seen in the following data table. Figure 4 references a Site Map.

9-15-20 Soil Sample Results

NMOCD						4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	water is 51	100')	
DEVON ENERGY - PARKWAY WEST UNIT #1 SWD  Sample Date 9-15-20 NM Approved Laboratory Results									
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg	
S-1	0-6"	ND	ND	ND	ND	ND	ND	448	
S-2	0-6"	ND	ND	ND	ND	ND	ND	640	
100	0-6"	ND	ND	ND	ND	ND	ND	688	
S-3	11	ND	ND	ND	ND	ND	ND	160	
3-3	2'	ND	ND	ND	ND	ND	ND	112	
	3'	ND	ND	ND	ND	ND	ND	96	
S-4	0-6"	ND	ND	ND	ND	ND	ND	1230	
3-4	1"	ND	ND	ND	ND	ND	ND	1040	
	0-6"	ND	ND	ND	ND	ND	ND	1920	
S-5	1'	ND	ND	ND	ND	ND	ND	256	
S-6	0-6"	ND	ND	ND	13.5	ND	13.5	8640	
S-7	0-6"	ND	ND	ND	ND	ND	ND	1540	
S-8	0-6"	ND	ND	ND	17.6	ND	17.6	22200	
S-9	0-6"	ND	ND	ND	ND	ND	ND	14600	
S-10	2'	ND	ND	ND	12.7	ND	12.7	10600	
S-11	0-6"	ND	ND	ND	13.5	ND	13.5	35600	
S-12	2'	ND	ND	ND	ND	ND	ND	17200	
C 13	0-6"	ND	ND	ND	ND	ND	ND.	17200	
S-13	11	0.842	ND	ND	13.5	23.2	37.542	19200	
S-14	0-6"	0.319	ND	ND	66.5	34.2	101.019	17000	
	0-6"	ND	ND	ND	23.5	ND	23.5	11000	
S-15	1'	ND	ND	ND	ND	ND	ND	2200	
	2'	ND	ND	ND	ND	ND	ND	784	
S-16	0-6"	ND	ND	ND	20.5	10.9	31.4	12900	
S-17	0-6"	ND	ND	ND	ND	ND	ND	9860	
	0-6"	ND	ND	ND	ND	ND	ND	10500	
S-18	1'	ND	ND	ND	ND	ND	ND	1710	
3-10	2'	ND	ND	ND	ND	ND	ND	1340	
	3'	ND	ND	ND	ND	ND	ND	1840	
S-19	0-6"	ND	ND	ND	ND	ND	ND	46000	
S-20	0-6"	ND	ND	ND	ND	ND	ND	2600	
S-21	0-6"	ND	ND	ND	ND	ND	ND	880	
BG-1	0-6"	ND	ND	ND	ND	ND	ND	720	
BG-2	0-6"	0.314	ND	ND	ND	ND	ND	144	
BG-3	0-6"	0.314	ND	ND	ND	ND	ND	112	

ND- Analyte Not Detected

On November 23, 2020, Pima returned to the site with a Geoprobe to complete the delineation process of this affected area. The results of this sampling event can be seen in the following table. Figure 5 references a GeoProbe Map.

11-23-20 Soil Sample Results

Devon	Energy - Parkway	Vest SVD #1		
Sample ID	Depth (BGS)	Chlorides mg/kg		
	1	960		
B-1	2	48		
	2.5	64		
	1	1860		
B-2	2	352		
B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11	2.5	160		
	1	1330		
B-3	2	1010		
	2.5	624		
	1	240		
B-4	2	160		
	2.5	320		
	1	160		
B-5	2	80		
	2.5	96		
	1	3920		
	2	752		
	2.5	192		
	1	720		
B-7	2	416		
	2.5	640		
	1	192		
B-8	2	80		
	3	80		
100	1	96		
B-9	2	192		
	2.5	352		
	1	656		
B-10	2	368		
	2.5	160		
	1	1380		
B-11	2	128		
	2.5	96		
	1	224		
B-12	2	32		
	2.5	48		
	1	320		
B-13	2	96		
	2.5	48		

ND – Analyte Not Detected

#### **Remediation Activities**

On December 29, 2020, Pima mobilized personnel and equipment to conduct remedial activities. We began excavating the contaminated material from the affected area, hauling it to Lea Land disposal, then hauling in clean material for backfill. Samples were taken from the sidewalls as we excavated. The results of this first sampling event can be seen in the following data table. Photographic documentation can be found in Appendix D.

12-31-20 Soil Sample Results

N	MOCD Ta	ble 1 Clos	ure Criteria	19.15.29	NMAC (H	IGH KARS	T AREA)		
		Deve	on Energy -	Parkway V	Vest SWD	1			
Sample Date 12-	Sample Date 12-31-20 NM Approved Laboratory Results								
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg	
N Wall Comp1	1	ND	ND	ND	10.7	ND	10.7	96	
N Wall Comp2	1	ND	ND	ND	ND	ND	ND	48	
N Wall Comp3	1	ND	ND	ND	ND	ND	ND	96	
N Wall Comp4	1	ND	ND	ND	ND	ND	ND	64	
W Wall Comp1	1	ND	ND	ND	ND	ND	ND	144	
W Wall Comp2	1	ND	ND	ND	ND	ND	ND	144	
W Wall Comp3	1	ND	ND	ND	ND	ND	ND	3120	
W Wall Comp4	1	ND	ND	ND	ND	ND	ND	1960	

ND - Analyte Not Detected

On January 8, 2021, Pima continued to the remediate the affected area. We continued to take samples from the sidewalls to confirm that the contamination had been removed horizontally. The results of this sampling event can be seen in the following data table.

1-8-21 Soil Sample Results

NMOCD	able 1 C	losure Cr	riteria 19.1	5.29 NM	AC (Depth	to Ground	dwater is 51	-100')
		DEVON E	ENERGY - P	ARKWAY	WEST UNI	T #1 SWD	i	
Sample Date 1-8-21 NM Approved Laboratory Results								
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
East Wall 1	1'	ND	ND	ND	ND	ND	ND	64
East Wall 2	1'	ND	ND	ND	ND	ND	ND	80
East Wall 3	1'	ND	ND	ND	ND	ND	ND	64
East Wall 4	1'	ND	ND	ND	ND	ND	ND	80
South Wall 1	1'	ND	ND	ND	ND	ND	ND	96
South Wall 2	1'	ND	ND	ND	ND	ND	ND	96
South Wall 3	1'	ND	ND	ND	ND	ND	ND	96
South Wall 4	1'	ND	ND	ND	ND	ND	ND	80
South Wall 5	1'	ND	ND	ND	ND	ND	ND	112
South Wall 6	1'	ND	ND	ND	ND	ND	ND	80
South Wall 7	1'	ND	ND	ND	ND	ND	ND	96
South Wall 8	1'	ND	ND	ND	ND	ND	ND	80
West Wall 3	1'	ND	ND	ND	ND	ND	ND	144
West Wall 4	1'	ND	ND	ND	ND	ND	ND	128

ND- Analyte Not Detected

The previous closure report mentioned samples that were taken on February 9, 2021, and February 10, 2021. After a good deal of research and review, it was concluded that these samples did not belong to either incident associated with this location. The data tables and lab reports for these samples have been removed. The email correspondence about this has been attached in Appendix C.

On February 20, 2021, Pima collected confirmation samples from the excavation to confirm all contamination had been removed. The excavation was then backfilled with clean, like material and repacked so the site could be put back in service. Figure 6 references an Excavation Map-Sidewalls.

After much searching and researching, the data from this sampling event could not be found. It was concluded that these samples were lost and never sent to the lab for official confirmation. It was also concluded that a 48-hour notification was never sent to the NMOCD.

On May 21, 2021, after sending a 48-hour notification via email (Appendix C), Pima returned to the site to collect confirmation samples from the remediated area. The results of this sampling event can be found in the following data table. Figure 7 references a Confirmation Sample Map.

5-21-21 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 50')										
	DEYON ENERGY - Parkway Vest SVD #1									
Date 5/2	Date 5/21/21 NM Approved Laboratory Results									
Sample ID	Depth (BGS)	BTEX mg/kg	Beazene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg		
CS-1	0	ND	ND	ND	ND	ND	ND	ND		
	10	ND	ND	ND	ND	ND	ND	ND		
CS-2	0	ND	ND	ND	ND	ND	ND	ND		
Dec 21	1	ND	ND -	ND	ND	ND	ND	5.68		
CS-3	0	ND	ND	ND	ND	ND	ND	ND		
20.0	1	ND	ND	ND	ND	ND	ND	5,71		
CS-4	0	ND	ND	ND	ND	ND	ND	ND		
	1	ND	- ND	ND	ND -	ND	ND	5.21		
CS-5	0	ND	ND	ND	ND	ND	ND	ND		
00.0	10	ND	ND	ND	ND	ND	ND	6.56		
CS-6	0	ND	ND.	ND	ND	ND	ND	15.2		
000	1	ND	ND	ND	ND	ND	ND	ND		
CS-7	0	ND	ND	ND	ND	ND	ND	ND		
400	40	ND	ND	ND	ND	ND	ND	ND		
CS-8	0	ND	ND	ND	ND	ND	ND	ND		
450	1	ND	ND	ND	ND	ND	ND	ND		
CS-9	0	ND	ND	ND	ND	ND	ND	ND		
655	4	ND	ND	ND	ND	ND	ND	ND		
CS-10	0	ND -	ND	ND	ND	ND	ND	ND		
0.0-10	- 1	ND	- ND	ND	ND	ND	ND	ND		
CS-11	0	ND	ND	ND	ND	ND	ND	ND		
65-0	4	ND	ND	ND	ND	ND	ND	ND		
CS-12	0	ND -	0.0035	ND	ND	ND	ND	5.39		
C3-12	- 1	ND-	- ND	ND	ND -	ND	ND	6.73		
CS-13	0	ND	ND	ND	ND	ND	ND	ND		
69-13	4	ND	ND	ND	ND	ND	ND	ND		
CS-14	0.	ND	ND.	ND	ND	ND	ND	5.98		
U.3-14	1	ND	ND	ND	ND	ND	ND	173		
CS-15	0	ND	ND	ND	ND	ND	ND	10.4		
P2-13	10	ND	ND	ND	ND	ND	ND	5.21		
CS-16	0	ND	ND.	ND	ND	ND	ND	ND		
C2-10	- 1	ND	ND	ND	ND	ND	ND	6.44		
CS-17	0	ND	ND	ND	ND	ND	ND	8.27		
C3-1/	10	ND	ND	ND	ND	ND	ND	ND		
CS-18	0.	ND	ND.	ND	ND	ND	ND	ND		
C-0-10	- 30	ND-	ND	ND	ND	ND	ND	ND		
CC 10	0	ND	ND	ND	ND	ND	ND	ND		
CS-19	1	ND	ND	ND	ND	ND	ND	ND		
00.00	0	ND	ND.	ND	ND	ND	ND	ND		
CS-20	1	ND	- ND	ND	ND	ND	ND	ND		
CC 24	0	ND	ND	ND	ND	ND	ND	18.4		
CS-21	7	ND	ND	ND	ND	ND	ND	ND		
PP-22	0	ND	ND	ND	ND	ND	ND	6.1		
CS-22	1	ND	ND	ND	ND	ND	ND	5.38		
00.00	0	ND	ND	ND	ND	ND	ND	ND		
CS-23	1	ND	ND	ND	ND	ND	ND	5.44		

ND - No Analyte Detected

Complete Laboratory Reports can be found in Appendix E.

#### **Closure Request**

After careful review, Pima requests that this incident, NRM2026529539, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Tom Bynum at 575-964-7740 or <a href="mailto:tom@pimaoil.com">tom@pimaoil.com</a>.

#### **Attachments**

#### Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map
- 5- GeoProbe Map
- 6- Excavation Map-Sidewalls
- 7- Confirmation Sample Map

#### Appendices:

Appendix A - Referenced Water Surveys

Appendix B - Soil Survey, Geological Data, Flood, & Wetlands Data

Appendix C - C-141 Form, 48-Hour Notification, & Email Correspondence

Appendix D - Photographic Documentation

Appendix E - Laboratory Reports



# Figures:

1-Location Map

2-Topographic Map

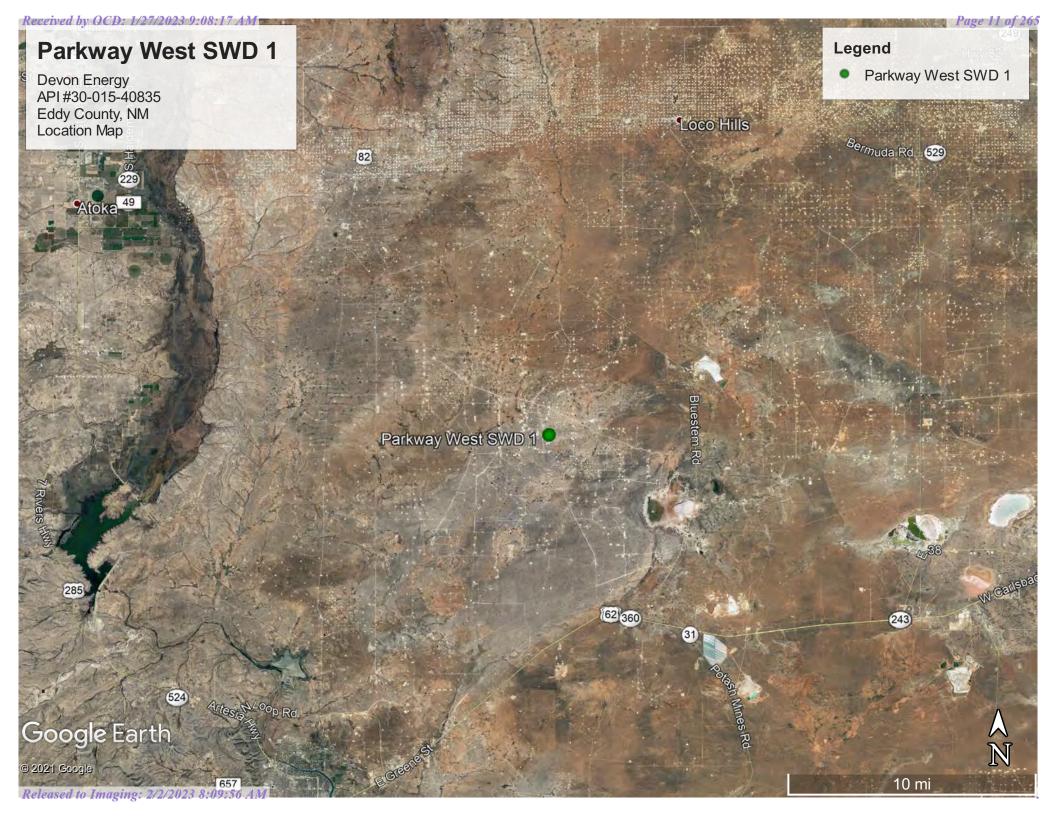
3-Karst Map

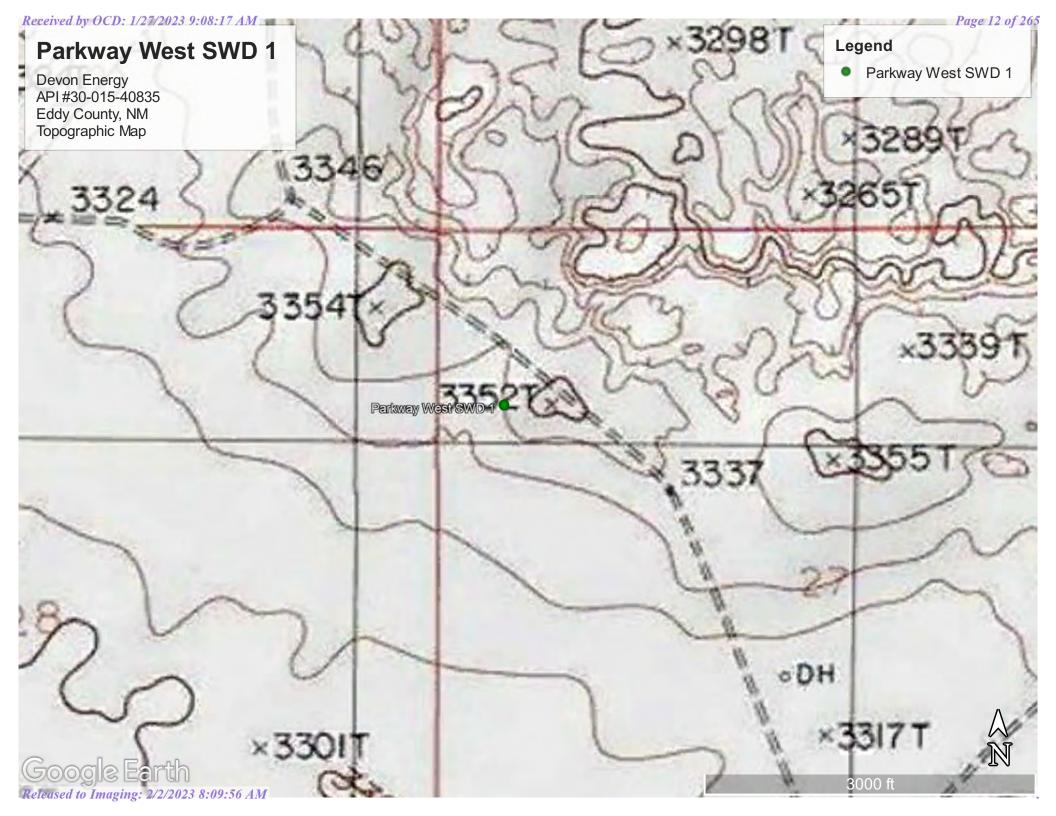
4-Site Map

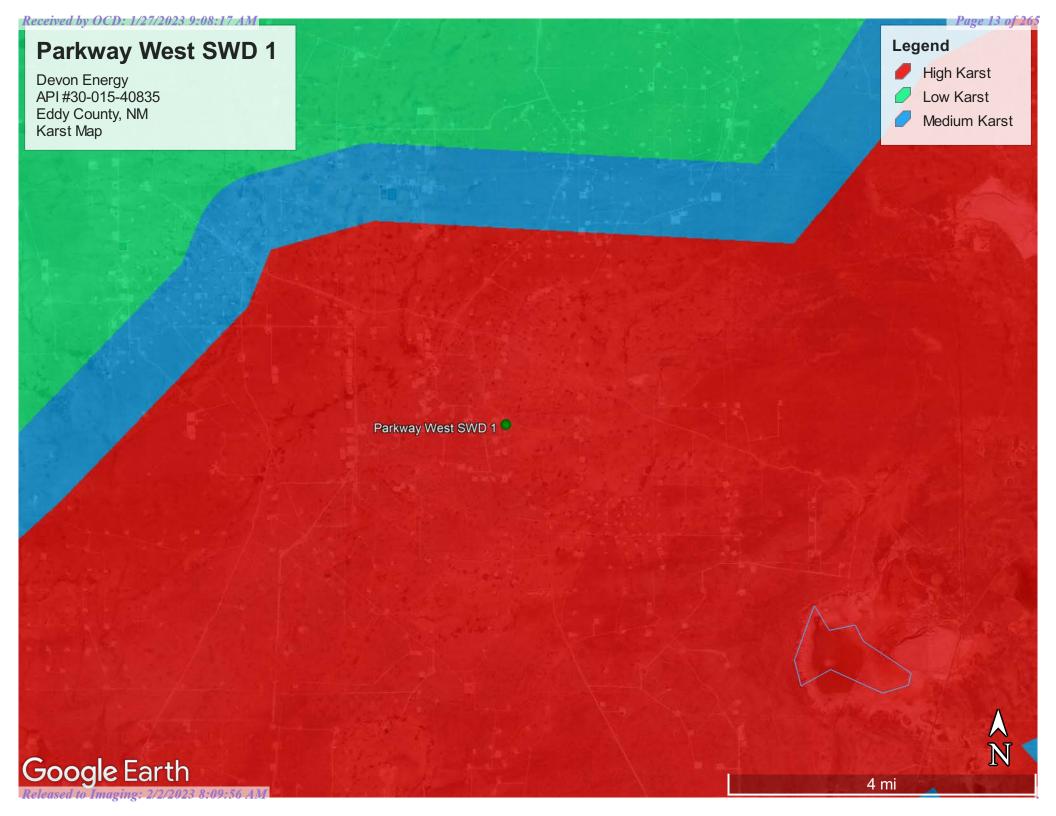
5-GeoProbe Map

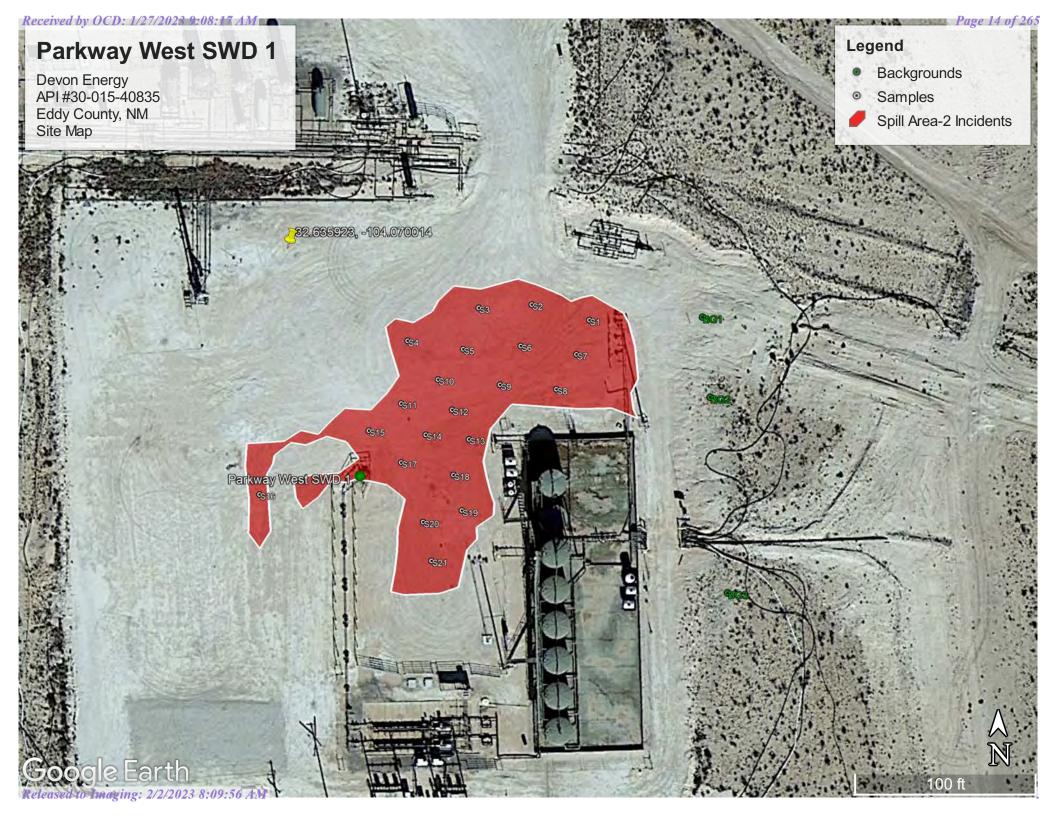
6-Excavation Map-Sidewalls

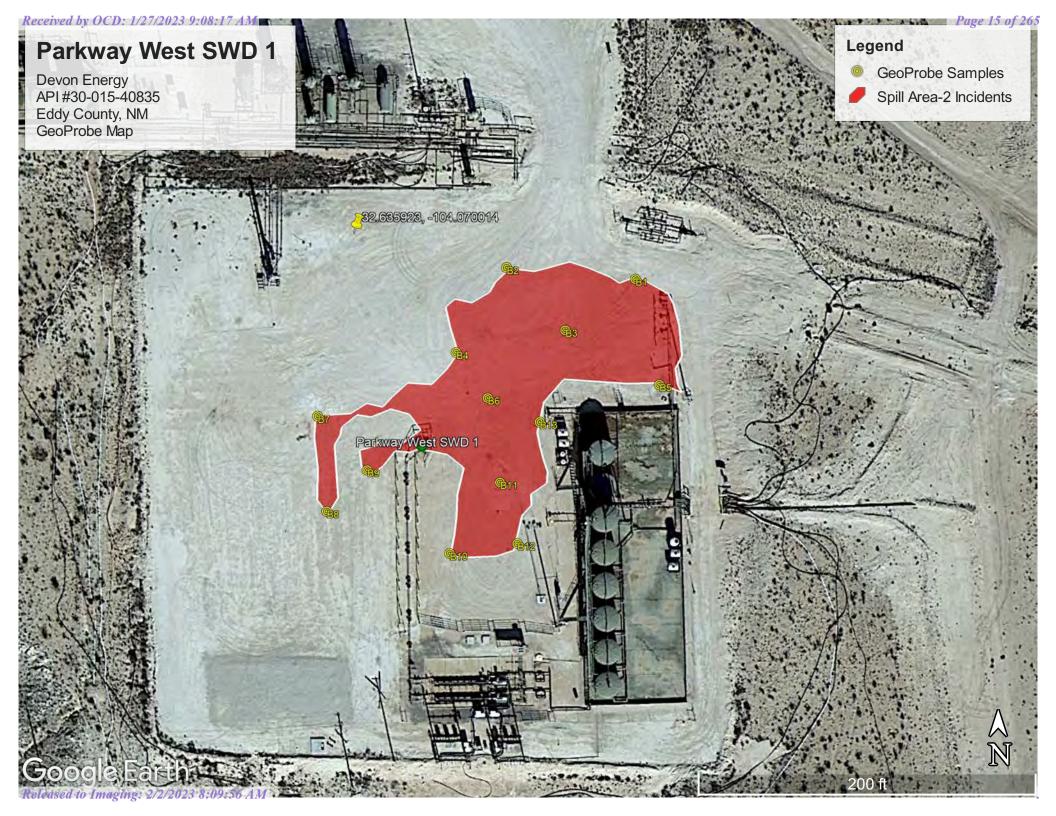
7-Confirmation Sample Map

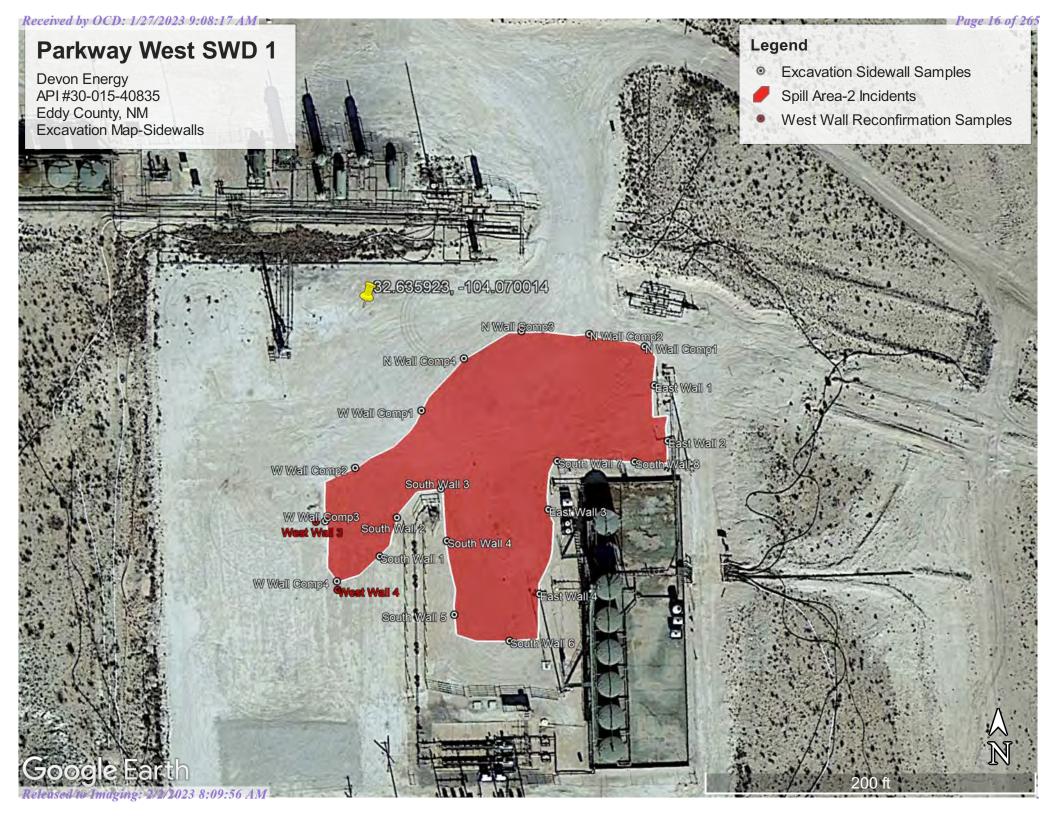


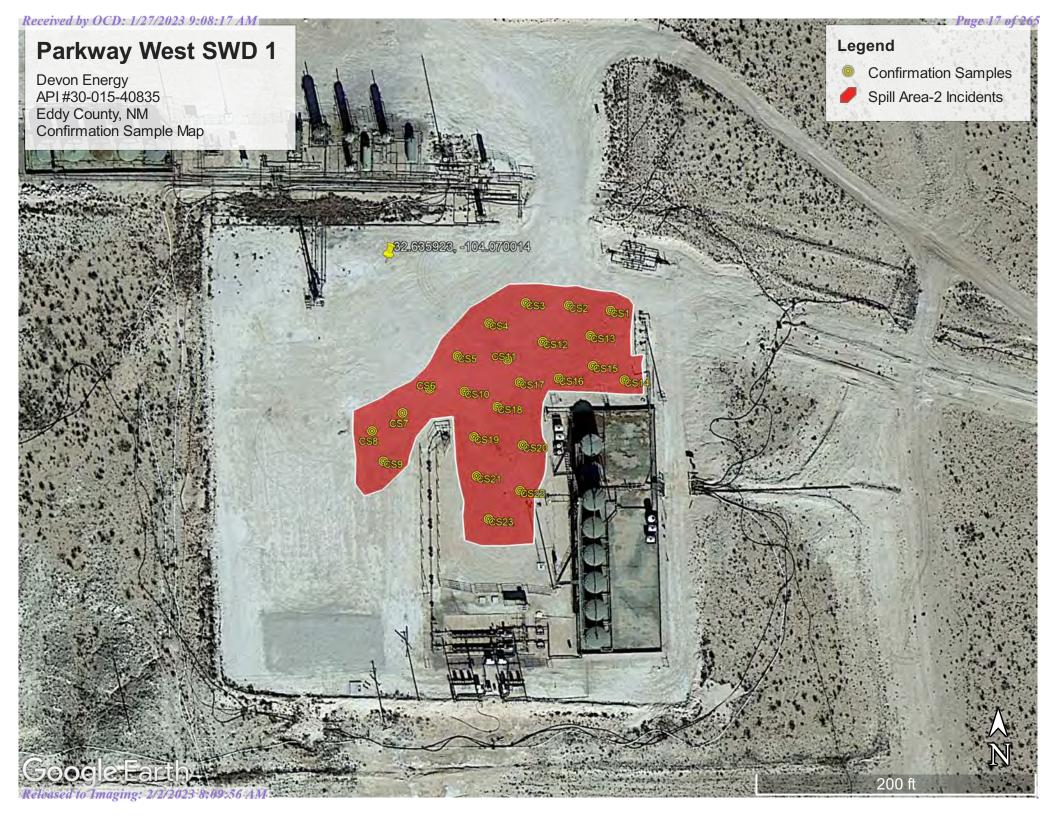














# Appendix A

Water Surveys:

OSE

**USGS** 

Surface Water Map



# New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD													
		Sub-		Q	Q	Q								V	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	othWellDept	thWater Co	lumn
<u>CP 00741</u>		CP	ED	1	3	2	34	19S	29E	588030	3609533*	1906	230	60	170
<u>CP 00681</u>		CP	ED	1	1	3	34	19S	29E	587230	3609127*	2143			
<u>CP 00698 POD1</u>		CP	ED		3	1	03	20S	29E	587393	3608010	3263			
CP 00830 POD1		CP	LE		2	1	04	20S	29E	586118	3608193*	3277	120		
<u>CP 00739 POD1</u>		CP	ED	3	4	4	35	19S	29E	590068	3608622	3870	200	110	90

Average Depth to Water:

85 feet

Minimum Depth:

60 feet

Maximum Depth:

110 feet

**Record Count:** 5

**UTMNAD83 Radius Search (in meters):** 

Easting (X): 587245.47 Northing (Y): 3611270.81 Radius: 4000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/12/21 9:04 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home Contact USGS Search USGS

## **National Water Information System: Web Interface**

**USGS Water Resources** 

Data Category:	Geographic Area:		
Groundwater ~	United States	~	GO

#### Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News
- NOTICE: Feb 10, 2021 17:30ET 18:23ET Data Transmissions were impacted by an unplanned system maintenance outage. Data are now processing.

Groundwater levels for the Nation

\* IMPORTANT: Next Generation Station Page

#### Search Results -- 1 sites found

site\_no list =

• 323900104052901

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

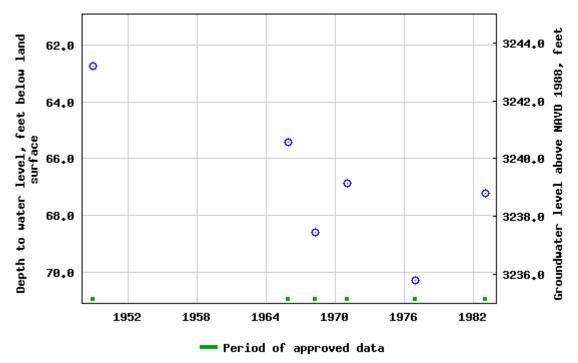
Available data for this site Groundwater: Field measurements

#### USGS 323900104052901 19S.29E.20.24111 RATLSNAKE

Great and the Great and Gr
Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°39'00", Longitude 104°05'29" NAD27
Land-surface elevation 3,306 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.
Output formats

	<b>_</b>	
Table of data		
Tab-separated data		
Graph of data		
Reselect period		

#### USGS 323900104052901 195,29E,20,24111 RATLSNAKE



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

FOIA

Privacy

Policies and Notices

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

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-02-12 11:06:14 EST

0.66 0.58 nadww02







# Appendix B

Soil Survey & Geological Data FEMA Flood Map Wetlands Map

## **Eddy Area, New Mexico**

#### KT—Kimbrough-Stegall loams, 0 to 3 percent slopes

#### **Map Unit Setting**

National map unit symbol: 1w4t Elevation: 2,750 to 5,000 feet

Mean annual precipitation: 8 to 16 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

#### **Map Unit Composition**

Kimbrough and similar soils: 70 percent Stegall and similar soils: 25 percent Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Kimbrough**

#### Setting

Landform: Alluvial fans, plains

Landform position (three-dimensional): Rise, talf

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

#### Typical profile

H1 - 0 to 3 inches: loam H2 - 3 to 9 inches: loam H3 - 9 to 60 inches: indurated

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: 8 to 20 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

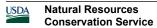
Sodium adsorption ratio, maximum: 1.0

Available water capacity: Very low (about 1.3 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s



Hydrologic Soil Group: D

Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

#### **Description of Stegall**

#### Setting

Landform: Alluvial fans, plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

#### Typical profile

H1 - 0 to 5 inches: loam
H2 - 5 to 28 inches: clay loam
H3 - 28 to 32 inches: indurated
H4 - 32 to 60 inches: variable

#### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Low to

moderately high (0.01 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 90 percent Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0

mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Low (about 4.8 inches)

#### Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

#### **Minor Components**

#### Simona

Percent of map unit: 5 percent

Ecological site: R042XC002NM - Shallow Sandy

Hydric soil rating: No

#### **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020



## **Eddy Area, New Mexico**

#### RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

#### **Map Unit Setting**

National map unit symbol: 1w5f Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 235 days

Farmland classification: Not prime farmland

#### **Map Unit Composition**

Reeves and similar soils: 55 percent

Gypsum land: 30 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Reeves**

#### Setting

Landform: Hills, plains, ridges

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Crest, nose slope, side

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

#### Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 32 inches: clay loam

H3 - 32 to 60 inches: gypsiferous material

#### **Properties and qualities**

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

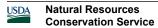
Gypsum, maximum content: 80 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to

8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water capacity: Low (about 4.3 inches)



#### Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

#### **Description of Gypsum Land**

#### Setting

Landform: Hills, plains, ridges

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Crest, nose slope, side

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

#### **Minor Components**

#### Cottonwood

Percent of map unit: 5 percent

Ecological site: R042XC033NM - Salty Bottomland

Hydric soil rating: No

#### Reagan

Percent of map unit: 5 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

#### Largo

Percent of map unit: 5 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

#### **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

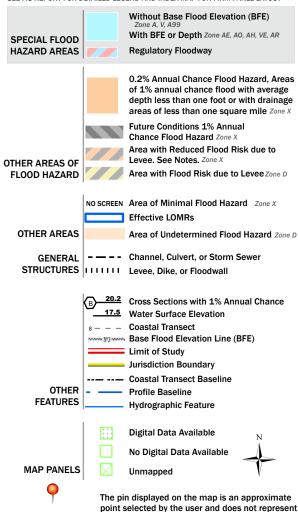
ORelease To Imaging: 2/2/2023 8:009:56 AM

# National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

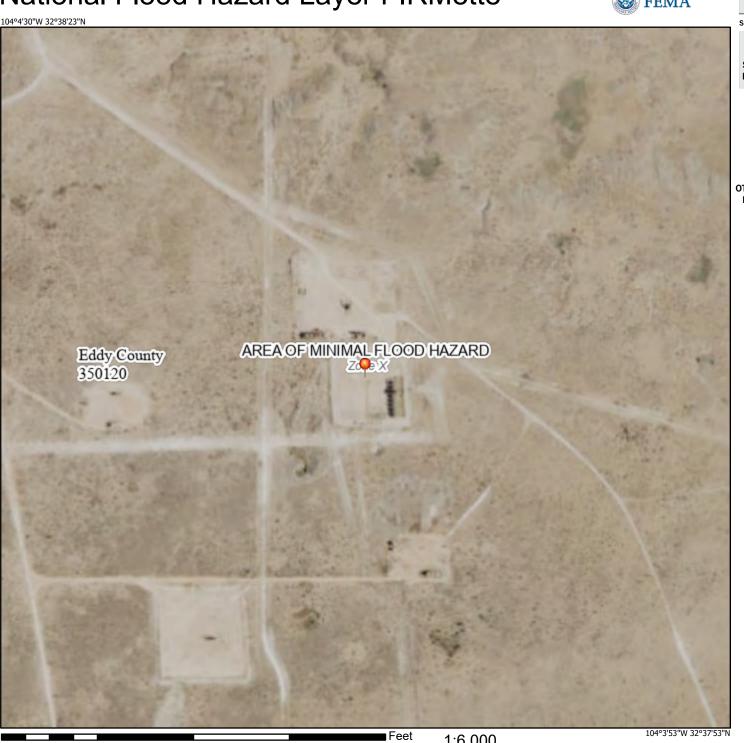


This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/16/2021 at 11:40 AM 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.

an authoritative property location.

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.



2.000

# Wetlands Map



December 16, 2022

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Lake

Freshwater Forested/Shrub Wetland

Other

Freshwater Pond



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.



# Appendix C

C-141 Form

48-Hour Notification

OCD Rec'd: 08/06/18

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 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**

Form C-141 Revised April 3, 2017

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

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

	Release Notification and Corrective Action									
NABI	82212	27797	7			OPERA'	ГOR		al Report	Final Report
Name of Co	mpany De	evon Energy	Producti	on Company 💋	137	Contact Aar	on Kidd; Forem	nan Technical Se		
		Rivers Hwy A		M 88210			No. 575-748-337			
Facility Nar	ne Parkwa	y West SWI	<u> </u>			Facility Typ	e Salt Water Di	sposal		
Surface Ow	ner State			Mineral C	wner S	State		API N	0.30-015-408	335
				LOCA	TIO	N OF RE	LEASE			
Unit Letter D	Section 27	Township 19S	Range 29E	Feet from the		/South Line	Feet from the	East/West Line	County Eddy	
	Latitude_32.635483 N Longitude -104.071270 W_ NAD83									
				NAT	<b>URE</b>	OF REL	EASE			
Type of Relea						Volume of	Release 73 BBLS		Recovered 55	
Source of Re	lease Load	Line				1	lour of Occurrenc  @ 4:30 AM MST		Hour of Disc 8 @ 4:30 AM	
Was Immedia	ate Notice (		Yes [	No Not Re	equired	If YES, To				
By Whom? B	rett Fulks;	EHS Profession	onal	.,,		Date and Hour OCD and BLM 7/22/2018 @ 9:33 PM MST				
Was a Watero	course Read		Yes ⊠	] No		If YES, Volume Impacting the Watercourse.  N/A				
If a Watercou N/A	irse was Im	pacted, Descr	ibe Fully.	•						
		em and Reme ne valve open		n Taken.* oproximately 73 b	arrels o	f produced wa	ater.			
		and Cleanup A			ds. (PV	V: Spilled - 73	3 bbls., Rec 55 b	bbls., Lost - 18 bbl	s.)	
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.										
							OIL CON	SERVATION	DIVISIO	<u>N</u>
Signature: Ta	mala J. Robi	ison								
					Approved by Environmental Specialist: Maria Pruell					
Title: Field A	dmin Supp	ort				Approval Da	te: 8/1/18	Expiration	Date: N	'A
E-mail Addre	ess: Tamala	.Robison@dv	n.com			Conditions of Approval:				
Date: 7/25/2018 Phone: 575-748-3371							Dll.	uttaen ee		<u>45P</u> 440C

<sup>\*</sup> Attach Additional Sheets If Necessary

Received by OCD: 1/27/2023 9:08:17 AM Form C-141 2 0 Sta

Page 32 of 265

0 State of New2Mexico Oil Conservation Division

	I uge ou oj u
RIncident ID	nRM2026529539
District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

This information must be provided to the appropriate district office to taler than 20 days after the release discovery date.				
What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (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?	X 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.				

Ch	aracterization Report Checklist: Each of the following items must be included in the report.
$\times$	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
$\overline{\times}$	Field data
	Data table of soil contaminant concentration data
	Depth to water determination
	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
	Boring or excavation logs
	Photographs including date and GIS information
	Topographic/Aerial maps

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.

■ Laboratory data including chain of custody

Received by OCD: 1/27/2023 9:08:17 AM
State of New Mexico
Page 4
Oil Conservation Division

Page 33 of 265
Incident ID nRM2026529539
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: Wes Mathews

Title: EHS Professional

Date: 1/27/2023

email: wesley.mathews@dvn.com

Telephone: 575-513-8608

Date: \_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Page 34 of 265

Incident ID	nRM2026529539
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.

Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C 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 certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: Wes Mathews	Title: EHS Professional
Signature: Wesley Mathews	Date: 1/27/2023
email: wesley.mathews@dvn.com	Telephone: <u>575-513-8608</u>
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:

From: <u>Tom Pima Oil</u>

To: ocdonline@state.nm.us; Marcus, Ramona, EMNRD; Billings, Bradford, EMNRD; Eads, Cristina, EMNRD; Venegas,

Victoria, EMNRD; Smith, Cory, EMNRD; Hensley, Chad, EMNRD; Hamlet, Robert, EMNRD; Bratcher, Mike, EMNRD

Cc: <u>Chris Jones; Mathews, Wesley; Sebastian Pima Oil</u>

Subject: 48-Hour Notification - NRM2026529539/NAB1822127797 (Parkway West SWD 1)

**Date:** Wednesday, May 19, 2021 7:16:18 AM

#### Good morning,

Pima Environmental would like to notify you that we will be collecting confirmation samples at the Parkway West SWD 1 for incident IDs NRM2026529539 and NAB1822127797. One of our techs is scheduled to be on site for this sampling event at approximately 12:00 p.m. on Friday, May 21st.

# Thank you,

Tom Bynum - Project Manager



Pima Environmental Services, LLC

From: tom@pimaoil.com To: "Maxwell, Ashley, EMNRD"

"Woodall, Dale"; "Mathews, Wesley"; "Bratcher, Michael, EMNRD" Cc:

Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 172051 - NRM2026529539

Date: Thursday, January 26, 2023 12:39:53 PM

Attachments: image002.png

Ashley,

Yes ma'am will do, many thanks.

THANK YOU,

Tom Bynum Cell - 580-748-1613 Office - 575-964-7740



Pima Environmental Services, LLC. 5614 N Lovington Hwy. Hobbs, NM, 88240

From: Maxwell, Ashley, EMNRD < Ashley. Maxwell@emnrd.nm.gov>

Sent: Thursday, January 26, 2023 12:15 PM

To: tom@pimaoil.com

Cc: 'Woodall, Dale' <Dale. Woodall@dvn.com>; 'Mathews, Wesley' <Wesley. Mathews@dvn.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 172051 - NRM2026529539

Tom,

Thank you for the quick response. Please revise the report and have Dale submit it via the OCD permitting portal.

Thanks, Ashley

Ashley Maxwell • Environmental Specialist

Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.635.5000 | Ashley.Maxwell@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: tom@pimaoil.com <tom@pimaoil.com> Sent: Thursday, January 26, 2023 11:34 AM

To: Maxwell, Ashley, EMNRD < Ashley. Maxwell@emnrd.nm.gov >

Cc: 'Woodall, Dale' < Dale. Woodall@dvn.com'>; 'Mathews, Wesley' < Wesley. Mathews@dvn.com'>; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>

Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 172051 - NRM2026529539

Good morning Ashley,

I have researched and reviewed the information from this report for the last few hours. I believe I found the discrepancy in the lab data. The labs from February 9<sup>th</sup>, and 10<sup>th</sup>, 2021 (see snap-shot below) do NOT belong to this incident and therefore should not have been included in this report. As of right now, I have not found where these labs belong. In my opinion, each one of these tables is for a different release, but I cannot confirm that at this point. I do apologize for the mix-up and for not catching this error before now. This information will also affect incident ID nAB1822127797, which was a smaller release that was overlapped by the current incident in question; nRM2026529539.

Would you like for me to revise this closure report to include the explanation for this error, or simply include this email correspondence in the report? I appreciate your time, please holler if you have any questions.

On February 9 and 10, 2021, Pima continued to excavate and collect samples to confirm the contamination had been removed. The results of this sampling event can be seen in the following tables. Figure 6 references an Excavation Map-Sidewalls.

2-9-21 Soil Sample Results

NMOCD	1500000		ENERGY - F			*****		
Sample Date	e 2-9-21		1	VM Appro	ved Labor	atory Res	ults	
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
East-1	0	ND	ND	ND	ND	ND	ND	1410
East-2	0	ND	ND	ND	ND	ND	ND	160
South-3	0	ND	ND	ND	ND	ND	ND	752
South-4	0	ND	ND-	ND	ND .	ND	ND	144
West-5	0	ND-	ND	ND	ND	ND	ND	160
West-6	0	ND	ND	ND	ND	ND	ND	1310
North-7	0	ND	ND	ND	ND	ND	ND	2480
North-8	0	ND	ND	ND	ND	ND	ND	240

2-10-21 Soil Sample Results

			- 10 -10	Ou county	ne nesun			
NMOCD	Table 1 C	losure C	riteria 19.1	5.29 NM	AC (Depth	to Groun	dwater is 51	-100')
		DEVON	ENERGY - P	ARKWAY	WEST UN	IT#1 SWD	)	
Sample Date	2-10-21			MM Appro	ved Labor	ratory Res	sults	
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
SW-1	0	ND	ND.	ND	ND	ND	ND	256
SW-2	0	ND	ND	ND	ND	ND	ND	432
WW-3	0	ND	ND	ND	ND	ND	ND	192
WW-4	0	ND	ND	ND	ND	ND	ND	432
WW-5	0	ND	ND	ND	ND	ND	ND	400

ND - Analyte Not Detected

#### THANK YOU,

*Tom Bynum*Cell – 580-748-1613
Office – 575-964-7740



Pima Environmental Services, LLC. 5614 N Lovington Hwy. Hobbs, NM, 88240

From: Woodall, Dale < <u>Dale.Woodall@dvn.com</u>>
Sent: Thursday, January 26, 2023 8:16 AM

To: Tom Pima Oil < tom@pimaoil.com>; 'Gio PimaOil' < gio@pimaoil.com>; Mathews, Wesley < wesley.Mathews@dvn.com>

Subject: Fwd: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 172051

Parkway west SWD: rejected report.

Dale Woodall

**Environmental Professional** 

Hobbs, NM 88240 Office: 575-748-1838 Mobile: 405-318-4697

From: <a href="mailto:oCDOnline@state.nm.us">OCDOnline@state.nm.us</a>>

**Sent:** Thursday, January 26, 2023 8:00:09 AM **To:** Woodall, Dale < <u>Dale. Woodall@dvn.com</u>>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 172051

To whom it may concern (c/o Dale Woodall for DEVON ENERGY PRODUCTION COMPANY, LP),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM2026529539, for the following reasons:

- Sidewall sample names in table/lab report do not match sidewall sample names on figure.
- Samples East-1, West-6, and North-7 exceed closure criteria.
- Submit report via the OCD permitting portal by 4/28/2023.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 172051. Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Ashley Maxwell Projects Environmental Specialist - A 505-635-5000 Ashley.Maxwell@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

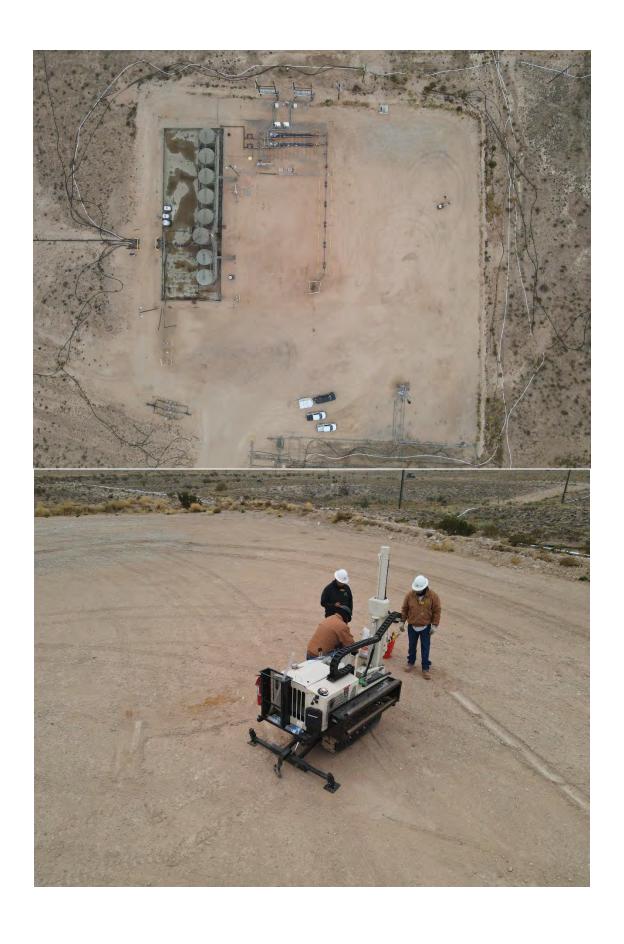


# Appendix D

Photographic Documentation









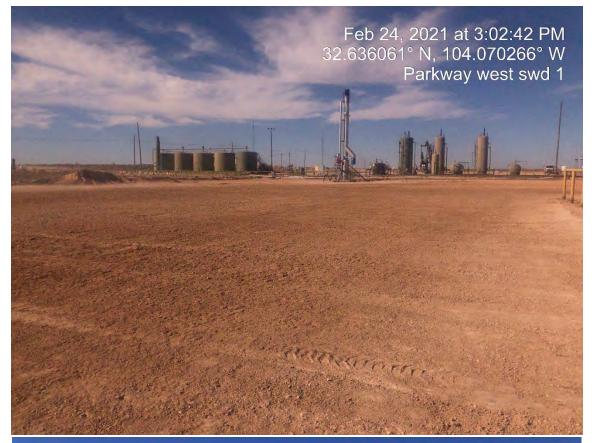


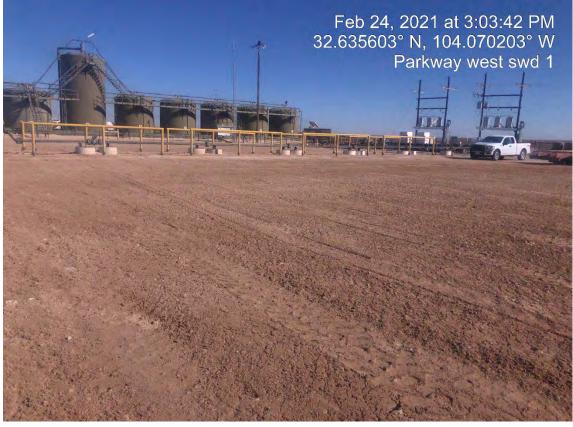


























# Appendix E

**Laboratory Reports** 



September 30, 2020

CHRIS JONES
PIMA ENVIROMENTAL
1601 N TURNER STE. 500
HOBBS, NM 88240

RE: PARKWAY WEST SWD

Enclosed are the results of analyses for samples received by the laboratory on 09/25/20 8:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: 09/15/2020 Reported: 09/30/2020 Sampling Type: Soil

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact
Project Number: 49 Sample Received By: Tamara Oldaker

Applymed By MC

Project Location: DEVON - 32.635774-104.069381

### Sample ID: S - 1 - 0" - 6" (H002542-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/28/2020	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	116	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	118	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client is subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020

Project Name: PARKWAY WEST SWD

Project Number: 49 Project Location: DEVON - 32.635774-104.069381

Sampling Date: 09/15/2020 Reported: 09/30/2020 Sampling Type: Soil

> Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: S - 2 - 0" - 6" (H002542-02)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	09/28/2020	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	120	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	121	% 42.2-15	6						

#### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: 09/15/2020

Reported: 09/30/2020 Sampling Type: Soil

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact
Project Number: 49 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 3 - 0" - 6" (H002542-03)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	09/28/2020	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	117	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	119	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



09/15/2020

Soil

#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: Reported: 09/30/2020 Sampling Type:

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact Sample Received By: Project Number: 49 Tamara Oldaker

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 3 - 1' (H002542-04)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/28/2020	ND	400	100	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	124	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	125	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: 09/15/2020

Reported: 09/30/2020 Sampling Type: Soil

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact
Project Number: 49 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: DEVON - 32.635774-104.069381

mg/kg

#### Sample ID: S - 3 - 2' (H002542-05)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/28/2020	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	127	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	125	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



# Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: 09/15/2020

Reported: 09/30/2020 Sampling Type: Soil

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact Project Number: Sample Received By: 49 Tamara Oldaker

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 3 - 3' (H002542-06)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/28/2020	ND	400	100	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	127	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	127	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



# Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: 09/15/2020

Reported: 09/30/2020 Sampling Type: Soil

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact Sample Received By: Project Number: 49 Tamara Oldaker

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 4 - 0" - 6" (H002542-07)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	09/28/2020	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	114 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	118 9	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Tamara Oldaker

#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: 09/15/2020

Reported: 09/30/2020 Sampling Type: Soil
Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact

Project Name: PARKWAY WEST SWD Sampling Condition:
Project Number: 49 Sample Received By:

Project Location: DEVON - 32.635774-104.069381

mg/kg

### Sample ID: S - 4 - 1' (H002542-08)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	09/28/2020	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	130	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	128	% 42.2-15	6						

Analyzed By: MS

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: 09/15/2020

Reported: 09/30/2020 Sampling Type: Soil

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact
Project Number: 49 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 5 - 0" - 6" (H002542-09)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	09/28/2020	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	116	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	117	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: 09/15/2020

Reported: 09/30/2020 Sampling Type: Soil

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact
Project Number: 49 Sample Received By: Tamara Oldaker

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 6 - 0" - 6" (H002542-10)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8640	16.0	09/28/2020	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	13.5	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	132	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	135	% 42.2-15	6						

# Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: 09/15/2020

Reported: 09/30/2020 Sampling Type: Soil

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact
Project Number: 49 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 7 - 0" - 6" (H002542-11)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	118	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	121	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: 09/15/2020

Reported: 09/30/2020 Sampling Type: Soil

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact
Project Number: 49 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 8 - 0" - 6" (H002542-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	< 0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22200	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	17.6	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	121	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	126	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Reported: 09/30/2020

Project Name: PARKWAY WEST SWD

Project Number: 49

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 09/15/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: S - 9 - 0" - 6" (H002542-13)

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	125 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	128 9	% 42.2-15	6						

Applyzod By: MC

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



09/15/2020

Tamara Oldaker

# Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date:

Reported: 09/30/2020 Sampling Type: Soil
Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact

Project Number: 49 Sample Received By:

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 10 - 0" - 6" (H002542-14)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	12.7	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	125 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	131 9	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



# Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: 09/15/2020

Reported: 09/30/2020 Sampling Type: Soil

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact
Project Number: 49 Sample Received By: Tamara Oldaker

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 11 - 0" - 6" (H002542-15)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	35600	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	13.5	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	125	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	129	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: 09/15/2020

Reported: 09/30/2020 Sampling Type: Soil Project Name: PARKWAY WEST SWD Sampling Condition: Coo

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact
Project Number: 49 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 12 - 0" - 6" (H002542-16)

RTFY 8021R

B1EX 8021B	mg,	кg	Апануге	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	107	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	119	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



09/15/2020

Soil

#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date:
Reported: 09/30/2020 Sampling Type:

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact
Project Number: 49 Sample Received By: Tamara Oldaker

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 13 - 0" - 6" (H002542-17)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	115 %	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	126 9	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Tamara Oldaker

#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Reported:

Sampling Date: 09/15/2020 09/30/2020 Sampling Type: Soil PARKWAY WEST SWD Sampling Condition: Cool & Intact

Sample Received By:

Project Name: Project Number: 49

Project Location: DEVON - 32.635774-104.069381

Sample ID: S - 13 - 1' (H002542-18)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	0.110	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	0.173	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	0.558	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	0.842	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19200	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	13.5	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	23.2	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	119 9	% 44.3-14	4						

132 %

42.2-156

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



09/15/2020

Tamara Oldaker

Sampling Date:

Sample Received By:

#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020

Reported: 09/30/2020 Sampling Type: Soil Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact

Project Number: 49

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 14 - 0" - 6" (H002542-19)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.22	111	2.00	2.04	
Toluene*	<0.050	0.050	09/25/2020	ND	2.25	113	2.00	1.92	
Ethylbenzene*	0.075	0.050	09/25/2020	ND	2.22	111	2.00	2.12	
Total Xylenes*	0.245	0.150	09/25/2020	ND	6.39	106	6.00	2.12	
Total BTEX	0.319	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	19						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17000	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	66.5	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	34.2	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	116	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	130	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Reported: 09/30/2020

PARKWAY WEST SWD

Project Number: 49

Project Name:

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 09/15/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: S - 15 - 0" - 6" (H002542-20)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	23.5	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	118 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	131 9	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Reported: 09/30/2020

PARKWAY WEST SWD

Project Name: Project Number: 49

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 09/15/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: S - 15 - 1' (H002542-21)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	109 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	119 9	6 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Reported: 09/30/2020

PARKWAY WEST SWD

Project Name: PAI
Project Number: 49

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 09/15/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: S - 15 - 2' (H002542-22)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	115	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	127	% 42.2-15	6						

Analyzed By: me

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Reported:

09/30/2020 PARKWAY WEST SWD

Project Name: Project Number: 49

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 09/15/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: S - 16 - 0" - 6" (H002542-23)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	< 0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12900	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	20.5	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	10.9	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	111 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	122 %	6 42.2-15	6						

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



09/15/2020

Soil

#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date:
Reported: 09/30/2020 Sampling Type:

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact
Project Number: 49 Sample Received By: Tamara Oldaker

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 17 - 0" - 6" (H002542-24)

BTEX 8021B	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9860	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	121	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	133	% 42.2-15	6						

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Reported: 09/30/2020

Project Name: PARKWAY WEST SWD

Project Number: 49

RTFY 8021R

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 09/15/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: S - 18 - 0" - 6" (H002542-25)

B1EX 8021B	mg,	кg	Апатуге	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	121	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	131	% 42.2-15	6						

Analyzed By: me

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Reported: 09/30/2020

PARKWAY WEST SWD

Project Name: PAI
Project Number: 49

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 09/15/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: S - 18 - 1' (H002542-26)

BTEX 8021B	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	< 0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	112	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	122	% 42.2-15	6						

# Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Reported: 09/30/2020

Project Name: PARKWAY WEST SWD

Project Number: 49

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 09/15/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: S - 18 - 2' (H002542-27)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	108	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	118	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Reported: 09/30/2020

PARKWAY WEST SWD

Project Name: PAI
Project Number: 49

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 09/15/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: S - 18 - 3' (H002542-28)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	116	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	126	% 42.2-15	6						

Analyzed By: me

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Reported: 09/30/2020

Project Name: PARKWAY WEST SWD

Project Number: 49

RTFY 8021R

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 09/15/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: S - 19 - 0" - 6" (H002542-29)

BIEX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/25/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	46000	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	114	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	122	% 42.2-15	6						

Analyzed By: me

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



09/15/2020

#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date:

Reported: 09/30/2020 Sampling Type: Soil Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact

Sample Received By: Project Number: 49 Tamara Oldaker

Project Location: DEVON - 32.635774-104.069381

### Sample ID: S - 20 - 0" - 6" (H002542-30)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/26/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/26/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/26/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	106 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	114 9	6 42.2-15	6						

#### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date: 09/15/2020

Reported: 09/30/2020 Sampling Type: Soil

Project Name: PARKWAY WEST SWD Sampling Condition: Cool & Intact
Project Number: 49 Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 21 - 0" - 6" (H002542-31)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/26/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/26/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/26/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	104	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	111	% 42.2-15	6						

# Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Reported: 09/30/2020

Project Name: PARKWAY WEST SWD

Project Number: 49

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 09/15/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: BG - 1 (H002542-32)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/26/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/26/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/26/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	119 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	127 9	6 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Reported: 09/30/2020

PARKWAY WEST SWD

Project Name: Project Number: 49

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 09/15/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: BG - 2 (H002542-33)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	0.063	0.050	09/26/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	0.073	0.050	09/26/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	0.178	0.150	09/26/2020	ND	6.09	102	6.00	1.73	
Total BTEX	0.314	0.300	09/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	115 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	125 9	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Reported: 09/30/2020

Project Name: PARKWAY WEST SWD

Project Number: 49

Project Location: DEVON - 32.635774-104.069381

09/25/2020

mg/kg

Sampling Date: 09/15/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

# Sample ID: BG - 3 (H002542-34)

Received:

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/26/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/26/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/26/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	120	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	130	% 42.2-15	6						

Analyzed By: ms

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Sample Received By:

09/15/2020

Cool & Intact

Tamara Oldaker

Soil

#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 09/25/2020 Sampling Date:

Reported: 09/30/2020 Sampling Type:
Project Name: PARKWAY WEST SWD Sampling Condition:

Project Number: 49

mg/kg

Project Location: DEVON - 32.635774-104.069381

#### Sample ID: S - 5 - 1' (H002542-35)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2020	ND	1.90	95.0	2.00	2.46	
Toluene*	<0.050	0.050	09/26/2020	ND	1.95	97.6	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/26/2020	ND	1.93	96.3	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/26/2020	ND	6.09	102	6.00	1.73	
Total BTEX	<0.300	0.300	09/26/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	200	100	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	203	102	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					
Surrogate: 1-Chlorooctane	113	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	123	% 42.2-15	6						

Analyzed By: ms

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene

9:08:17 AM

Received by OCD: 1/27/2023

Page 38 of 41



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	Tima Environmental									BI	LL	. TO						A١	IAL'	YSIS	R	EQU	EST				
Project Manager	Chris Jones							P.0	. #:	20	28	905	19														
Address: //	1 N. Turner									-		von															
City: Hobbs	State: NM	Zip	: <	88	25	16		Attn	To	im	E	Bynu	m														1
Phone #: 57	5-631-6977 Fax#:							Add																			1
Project #: 4	7 Project Owner		De	VO	~			City	:																		
Project Name: (	Parkway West SWD							Stat	te:		Zip	p:															-
Project Location	: 32.635 774, -104	.6	69	38	(			Pho	ne	#:						_		_	4				_	_	4		4
	Robert Carper	_	_	_	-		_	Fax	_	0000		SAMP	N INC	5		-	7										
FOR LAB USE ONLY	,	a.			M	ATRI)	(	ď	PRE	SERV.	-	SAMP	LING	1	X	1	2										
Lab I.D. H002542 1	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER;	ACID/BASE:	ICE / COOL OTHER:		DATE	TIME	t/d/	BIL	5	CNOI										
1	5-1-0"-6"	8				X					9	19/20	9:00	×	X	à	4	1				-	_	_			
2	5-2-0"-6"	1									1	1	9:05	1	11		-	-	-			-	+	+	+	-	-
3	5-3-0"-6"	1					Н			+	H	-	9:10	1	H			+	-			+	+	+	+	-	-
4	5-3-1	H	L	H	-	-	Н	$\dashv$	-	+	H	-	9:15	H	1	-	+		-			1	+	+	+	-	
5	5-3-21	Н	Н					$\dashv$	Н	+	H	1	9.20	H	+		H	+	+			+	+	+	+		
6	5-3-01-611	Н	H				9		1	1	H		9:35	Н	+		+		$\dashv$						+		1
	5-4-11				н			P	1	+		1	9:35	$\Box$					$\exists$								
9	5-5-0"-6"	1			T			Ħ	F		1		9:40			T											
10	5-6-0"-6"	1				1		1	1		1.	1	9:45	1	7												

PLEASE NOTE: List-litty and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without imitation, business interruptions, loss of use, or loss of profits incurred by clerk, its subsidiaries explications of the profits incurred by clerk in the performance of services between the cardinal, regardless of whether such claim is based upter jury of the above stated reasons or otherwise.

Relinquished By:	Date: 975/20 Time: 8357	Received By:	Make	Verbal Result:   Yerbal Results are emailed		Add'l Phone #: vide Email address:
Relinquished By:	Date:	Received By:		REMARKS:		
	Time.			1		
Delivered By: (Circle One)	Observed Temp. °C -	Cool Intact	CHECKED BY: (Initials)	Turnaround Time:	Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Yes Yes	40	Thermometer ID #113 Correction Factor None		☐ Yes ☐ Yes ☐ No ☐ Corrected Temp. °C

FORW-000 K 3. 1 00/04/20

<sup>†</sup> Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Page 39 of 41

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	e: Pima Environmental		BILL TO	ANALYSIS REQUEST
i rojece manage	Chris Jones		P.O. #: 208 90519	
Address: /6	ol N. Turner		Company: Devon	1,
City: /4 bbs	State: NA	M Zip: 88745	Attn: Tom Bynum	
	5-631-6977 Fax#:		Address:	
Project #:	49 Project Own	er Devous	City:	
Project Name:	Parture West Su	cio		18
Project Location	Parkway West Su n: 32.635 774, -104.0	19 301		
Sampler Name	Robert Corpe	1 281	Phone #:	Rul
FOR LAB USE ONLY	Robert Corpe	MATRIX	Fax #:  PRESERV. SAMPLING	
Lab I.D. H002542		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER:	BIEX CHIBON
//	5-7-0"-64	6 4	9/15/20 9:50	XXX
12	5-8-04-64		1 9755	
13	5-9-0"-6"		16:00	
14	5-10-04-64		10:05	
15	5-11-04-64		12:10	
14	5-12-04-6"		16:15	
1,6	5-13-04-64		10,00	
19	5-13-1'		10:25	
70	5-14-04-64		10:30	
	d Damages. Cardinal's liability and client's exclusive remedy for	L	1 10:35	1 2 2 2

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of sensions have the contraction of the performance of sensions h

Relinquished By:	4/10/2	lallara U	Adapon any of the above stated of	Verbal Result: Y		Add'l Phone #: vide Email address:
Remiquistieu by.	Time:			REMARKS:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C -2.7 Corrected Temp. °C	Sample Condition Cool Intact Yes Yes No No	CHECKED BY: (Initials)	Turnaround Time: Thermometer ID #113 Correction Factor None	Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C  Yes Yes No No Corrected Temp. °C

Page 40 of 41

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	e: Pima Environme	utel								ı	BIL	LL TO						ANA	ALYS	IS RE	FQUE	ST		
r roject manage	Chris Jones							P.	.0.	#: ;	20.	8 965	19	T				T	1	T	T			
Address: /6	ol N. Turner											Devov		1										
City: Habb	State: N	V Zip	: <	88	6	40	,	At	ttn:	to	m	Byn	lind	1										
Phone #: 57	5-631-6977 Fax#:									ess:		3911	ium											
Project #:	1G Project Own	ner: Y	0	200	ha				ity:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,														
Project Name:	Parking West	Sul	1						ate			Zip:												
roject Location	Park way West 9 11: 32635 774, -104	1 Ol	9	>0	-1			1		e #:	-	Lip.												
Sampler Name:	Robert Couper	7.00	0 1	20	) !				ix#															
FOR LAB USE ONLY	1202-13 (24)2-	П	П		M	ATRI	X	1 0	_	ESER	v.I	SAMP	PLING	1										
Lab I.D. 4002542	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	TPH EST	Brex	Maride								
2	5-15-1	6			×					4		9/15/2	10:40	*	d	1	1						-	
22	5-15-1' 5-15-21 5-16-016"	11				5				i		1	10:45	i	1	1							-	
23	5-16-01-61	$\mathbf{H}$			-			-1					10:50					1						
24	5-17-04-641	$\perp$											10:55										-	
25	5-18-04-64	1/1											11:00											
24	5-18-11	111											11:05											
27	5-18-21	$\perp \parallel$											11:10											
21 22 23 24 25 26 27 28 29	5-18-31	111											11:20										1	
27													11:25										1	
30	5-30 - 0 11-6 11 Damages, Cardinal's liability and client's exclusive remedy for a those for negligence and any other cause whateverse shall be				1					1			11:30		1							-	-	

Relinquished By:	Date: 9/28/20 Receive	ed By: Alwara de ed By:	11111	Verbal Result: Y All Results are emailed		Add'	I Phone #: nail address:
Relinquished By:	Date: Receive	ed By:		REMARKS:			
Delivered By: (Circle One)  Sampler - UPS - Bus - Other:	Observed Temp. °C -2.7 Corrected Temp. °C	Sample Condition Cool Intact Yes Yes No No	CHECKED BY: (Initials)	Turnaround Time: Thermometer ID #113 Correction Factor None	Standard Rush		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C  Yes Yes No No Corrected Temp. °C



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (ETE) 202 2220 FAV (ETE) 202 2470

Company Name		whel	BILL TO	ANALYSIS REQUEST
Project Manage	er: Chris Jones		P.O.#: 20890519	
Address: 160	o) N. Turner		Company: Devon	1
City: Heb	obs State: /	VMZip: 88240	Attn: Tom Bynun	
	15-631-6977 Fax#:	, , , , , ,	Address:	
		Owner: Devon	City:	1
	Parkway West	Sun	State: Zip:	1
Project Location	n: 32.635 774, -10	L 069301	Phone #:	
Sampler Name:	Robert Carper	7-00 1381	Fax #:	
FOR LAB USE ONLY	Robert Carper	MATRIX	PRESERV SAMPLING	
Lab I.D. H002542 31	Sample I.D.  5-21 - 0'1-6"  86-1  86-2  86-3  S-5 - 1'	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	OTHER: OT	TP/+ STEX
32	B6-1		1 11:40	
33	B6-2		11:45	
34	86-3	7 7	1 1 11:50	
35	S-5 ~ 1	G X	YL	
PLEASE NOTE: Liability an	d Damages. Cardinal's liability and client's exclusive reme ig those for negligence and any other cause whatenever	rdy for any claim arising whether based in contribution to the common variety in white the contribution of	ct or tort, shall be limited to the amount paid by the client for ind received by Cardinal within 30 days after completion of the	the

entityses. As claims including those for negligence an service. In no event shall Cardinal be liable for inciden	bility and client's exclusive remedy for any claim arisin d any other cause whatsoever shall be deemed waive tal or consequental damages, including without limital	d unless made in writing and receive ion, business interruptions, loss of a	red by Cardinal within 30 days at	after completion of the applicable
Relinquished By:	Date: Receiv  Date: Receiv  Time: Receiv	ed By:  Mulara de By:	M11	Verbal Result:  Yes  No Add'l Phone #: All Results are emailed. Please provide Email address:  REMARKS:
Delivered By: (Circle One)  Sampler - UPS - Bus - Other:	Observed Temp. °C -2.7 Corrected Temp. °C	Sample Condition Cool Intact Yes Yes No No	CHECKED BY: (Initials)	Turnaround Time:  Standard Rush  Cool Intact Observed Temp.  Thermometer ID #113 Correction Factor None  Standard Rush  No Corrected Temp.

<sup>†</sup> Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



December 01, 2020

CHRIS JONES
PIMA ENVIROMENTAL
1601 N TURNER STE. 500
HOBBS, NM 88240

RE: PARKWAY WEST SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 11/24/20 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported:

01-Dec-20 16:46

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B - 1 - 1'	H003117-01	Soil	23-Nov-20 08:50	24-Nov-20 14:10
B - 1 - 2'	H003117-02	Soil	23-Nov-20 08:55	24-Nov-20 14:10
B - 1 - BOTTOM	H003117-03	Soil	23-Nov-20 09:00	24-Nov-20 14:10
B - 2 - 1'	H003117-04	Soil	23-Nov-20 09:05	24-Nov-20 14:10
B - 2 - 2'	H003117-05	Soil	23-Nov-20 09:10	24-Nov-20 14:10
B - 2 - BOTTOM	H003117-06	Soil	23-Nov-20 09:15	24-Nov-20 14:10
B - 3 - 1'	H003117-07	Soil	23-Nov-20 09:20	24-Nov-20 14:10
B - 3 - 2'	H003117-08	Soil	23-Nov-20 09:25	24-Nov-20 14:10
B - 3 - BOTTOM	H003117-09	Soil	23-Nov-20 09:30	24-Nov-20 14:10
B - 4 - 1'	H003117-10	Soil	23-Nov-20 09:35	24-Nov-20 14:10
B - 4 - 2'	H003117-11	Soil	23-Nov-20 08:00	24-Nov-20 14:10
B - 4 - BOTTOM	H003117-12	Soil	23-Nov-20 08:05	24-Nov-20 14:10
B - 5 - 1'	H003117-13	Soil	23-Nov-20 08:10	24-Nov-20 14:10
B - 5 - 2'	H003117-14	Soil	23-Nov-20 08:15	24-Nov-20 14:10
B - 5 - BOTTOM	H003117-15	Soil	23-Nov-20 08:20	24-Nov-20 14:10
B - 6 - 1'	H003117-16	Soil	23-Nov-20 08:25	24-Nov-20 14:10
B - 6 - 2'	H003117-17	Soil	23-Nov-20 08:30	24-Nov-20 14:10
B - 6 - BOTTOM	H003117-18	Soil	23-Nov-20 08:35	24-Nov-20 14:10
B - 7 - 1'	H003117-19	Soil	23-Nov-20 08:40	24-Nov-20 14:10
B - 7 - 2'	H003117-20	Soil	23-Nov-20 08:45	24-Nov-20 14:10
B - 7 - BOTTOM	H003117-21	Soil	23-Nov-20 09:40	24-Nov-20 14:10
B - 8 - 1'	H003117-22	Soil	23-Nov-20 09:45	24-Nov-20 14:10
B - 8 - 2'	H003117-23	Soil	23-Nov-20 09:50	24-Nov-20 14:10
B-8- BOTTOM	H003117-24	Soil	23-Nov-20 10:00	24-Nov-20 14:10
B - 9 - 1'	H003117-25	Soil	23-Nov-20 10:05	24-Nov-20 14:10
B - 9 - 2'	H003117-26	Soil	23-Nov-20 10:10	24-Nov-20 14:10
B - 9 - BOTTOM	H003117-27	Soil	23-Nov-20 10:15	24-Nov-20 14:10

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



# **Analytical Results For:**

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240		Project: Project Number: Project Manager: Fax To:	CHRIS JONES	Reported: 01-Dec-20 16:46
B - 10 - 1'	H003117-28	Soil	23-Nov-20 10:20	24-Nov-20 14:10
B - 10 - 2'	H003117-29	Soil	23-Nov-20 10:25	24-Nov-20 14:10
B - 10 - BOTTOM	H003117-30	Soil	23-Nov-20 10:30	24-Nov-20 14:10
B - 11 - 1'	H003117-31	Soil	23-Nov-20 10:35	24-Nov-20 14:10
B - 11 - 2'	H003117-32	Soil	23-Nov-20 10:40	24-Nov-20 14:10
B - 11 - BOTTOM	H003117-33	Soil	23-Nov-20 10:45	24-Nov-20 14:10
B - 12 - 1'	H003117-34	Soil	23-Nov-20 10:50	24-Nov-20 14:10
B - 12 - 2'	H003117-35	Soil	23-Nov-20 10:55	24-Nov-20 14:10
B - 12 - BOTTOM	H003117-36	Soil	23-Nov-20 11:00	24-Nov-20 14:10
B - 13 - 1'	H003117-37	Soil	23-Nov-20 11:05	24-Nov-20 14:10
B - 13 - 2'	H003117-38	Soil	23-Nov-20 11:10	24-Nov-20 14:10
B - 13 - BOTTOM	H003117-39	Soil	23-Nov-20 11:15	24-Nov-20 14:10

12/01/20 - Client revised the sample IDs for all the samples from S to B. This is the revised report and will replace the one sent earlier 12/01/20.

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240 Project: PARKWAY WEST SWD #1

#1

Reported: 01-Dec-20 16:46

TURNER STE. 500 Project Number: 49

Project Manager: CHRIS JONES

Fax To:

B - 1 - 1'

H003117-01 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories											
Inorganic Compounds											
	Chloride	960		16.0	mg/kg	4	0112512	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

B-1-2'

H003117-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	0112512	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Reported: 01-Dec-20 16:46

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

B-1-BOTTOM

H003117-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					

**Inorganic Compounds** 

16.0 0112512 GM 30-Nov-20 4500-Cl-B Chloride 64.0 mg/kg

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



# **Analytical Results For:**

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240 Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

B-2-1'

H003117-04 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
	Cardinal Laboratories										
Inorganic Compounds											
•	Chloride	1860		16.0	mg/kg	4	0112512	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240 Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

B - 2 - 2'

H003117-05 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
	Cardinal Laboratories										
Inorganic Compounds											
(	Chloride	352		16.0	mg/kg	4	0112512	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Reported:

Project Number: 49

01-Dec-20 16:46

Project Manager: CHRIS JONES

Fax To:

B-2-BOTTOM

H003117-06 (Soil)

Reporting Limit Result MDL Units Dilution Analyzed Method Notes Analyte Batch Analyst **Cardinal Laboratories** 

**Inorganic Compounds** 

16.0 0113011 GM 30-Nov-20 4500-Cl-B Chloride 160 mg/kg

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence are any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

B-3-1'

H003117-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chlorida	1330		16.0	mø/kø	4	0113011	GM	30-Nov-20	4500-Cl-B		

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Reported: 01-Dec-20 16:46

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

B-3-2'

### H003117-08 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories											
Inorganic Compounds											
	Chloride	1010		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



624

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Chloride

Project: PARKWAY WEST SWD #1

0113011

GM

30-Nov-20

Reported:

Project Number: 49

Project Manager: CHRIS JONES

01-Dec-20 16:46

4500-Cl-B

Fax To:

B-3-BOTTOM

H003117-09 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories											
	Inorganic Compounds										

mg/kg

16.0

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240 Project: PARKWAY WEST SWD #1

Reported:

Project Number: 49

Project Manager: CHRIS JONES

01-Dec-20 16:46

Fax To:

B-4-1'

H003117-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
	Cardinal Laboratories										
norganic Compounds											
Chloride	240		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B		

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Reported:

4500-Cl-B

01-Dec-20 16:46



160

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Chloride

Project: PARKWAY WEST SWD #1

0113011

GM

30-Nov-20

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

B-4-2'

H003117-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
norganic Compounds											

mg/kg

16.0

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Reported: 01-Dec-20 16:46

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

B-4-BOTTOM

H003117-12 (Soil)

Reporting Limit Result MDL Units Dilution Analyzed Method Notes Analyte Batch Analyst **Cardinal Laboratories** 

**Inorganic Compounds** 

16.0 0113011 GM 30-Nov-20 4500-Cl-B Chloride 320 mg/kg

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence are any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

B-5-1'

H003117-13 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
	Cardinal Laboratories										
Inorganic Compounds											
	Chloride	160		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



# Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240 Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

B - 5 - 2'

H003117-14 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
	Cardinal Laboratories										
Inorganic Compounds											
	Chloride	80.0		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Reported: 01-Dec-20 16:46

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

B-5-BOTTOM

H003117-15 (Soil)

Reporting Limit Result MDL Units Dilution Analyzed Method Notes Analyte Batch Analyst

**Cardinal Laboratories** 

**Inorganic Compounds** 

16.0 0113011 GM 30-Nov-20 4500-Cl-B Chloride 96.0 mg/kg

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence are any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



3920

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Chloride

Project: PARKWAY WEST SWD #1

0113011

GM

30-Nov-20

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

4500-Cl-B

B-6-1'

H003117-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										

mg/kg

16.0

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence are any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

B-6-2'

H003117-17 (Soil)

Analyte	Result	MDL	Limit Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compound	ds									
Chloride	752		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240 Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

B-6-BOTTOM

H003117-18 (Soil)

Analyte Result MDL Reporting Units Dilution Batch Analyst Analyzed Method Notes

\*\*Cardinal Laboratories\*\*

 Inorganic Compounds

 Chloride
 192
 16.0
 mg/kg
 4
 0113011
 GM
 30-Nov-20
 4500-Cl-B

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

B - 7 - 1' H003117-19 (Soil)

Analyte Result	MDL Reporting Limit	Units Dilution	Batch Analyst	Analyzed	Method	Notes
----------------	---------------------	----------------	---------------	----------	--------	-------

#### **Cardinal Laboratories**

**Inorganic Compounds** 16.0 0113011 GM 30-Nov-20 4500-Cl-B Chloride 720 mg/kg

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

B - 7 - 2'

#### H003117-20 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				Cardina	ıl Laborat	ories					
<u>I</u>	norganic Compounds										
C	Chloride	416		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Reported: 01-Dec-20 16:46

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

**B-7-BOTTOM** 

H003117-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Laborato	ries					

**Inorganic Compounds** 

16.0 0113011 GM 30-Nov-20 4500-Cl-B Chloride 640 mg/kg

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence are any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Reported: 01-Dec-20 16:46

Fax To:

B-8-1'

H003117-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Reported: 01-Dec-20 16:46

Project Manager: CHRIS JONES

Fax To:

B-8-2'

H003117-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240 Project: PARKWAY WEST SWD #1

Reported: 01-Dec-20 16:46

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

B - 8 - BOTTOM

H003117-24 (Soil)

Analyte Result MDL Reporting Limit Units Dilution Batch Analyst Analyzed Method Notes

**Cardinal Laboratories** 

**Inorganic Compounds** 

**Chloride 80.0** 16.0 mg/kg 4 0113011 GM 30-Nov-20 4500-Cl-B

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence are any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether succession are only of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

B-9-1'

H003117-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Reported:

01-Dec-20 16:46



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240 Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

B - 9 - 2'

H003117-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Laborato	ries					

 Inorganic Compounds

 Chloride
 192
 16.0
 mg/kg
 4
 0113012
 GM
 30-Nov-20
 4500-Cl-B

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240 Project: PARKWAY WEST SWD #1

WD #1

Reported: 01-Dec-20 16:46

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

B-9-BOTTOM

H003117-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	352		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Reported:

4500-Cl-B

01-Dec-20 16:46



656

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Chloride

Project: PARKWAY WEST SWD #1

Project Number: 49

0113012

GM

30-Nov-20

Project Manager: CHRIS JONES

Fax To:

B-10-1'

H003117-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Inorganic Compounds			Cardin	al Laborat	tories					

mg/kg

16.0

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

B-10-2'

H003117-29 (Soil)

Analyte	Result		orting mit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal Labor	atories					
Inorganic Compounds									
Chloride	368	10	5.0 mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240 Project: PARKWAY WEST SWD #1

Reported: 01-Dec-20 16:46

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

## **B-10-BOTTOM**

H003117-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Reported: 01-Dec-20 16:46

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

B-11-1'

H003117-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	1380		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Reported: 01-Dec-20 16:46

Fax To:

B - 11 - 2'

H003117-32 (Soil)

Analyte	Result	porting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborato	ories					
Inorganic Compounds									
Chloride	128	16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Reported: 01-Dec-20 16:46

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

**B-11-BOTTOM** 

H003117-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

01-Dec-20 16:46

Reported:

B-12-1'

H003117-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	224		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240 Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

B - 12 - 2'

H003117-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keens



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Reported: 01-Dec-20 16:46

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

## **B-12-BOTTOM**

#### H003117-36 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				Cardina	ıl Laborat	ories					
<u>I</u>	Inorganic Compounds										
(	Chloride	48.0		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Reported:

4500-Cl-B

01-Dec-20 16:46



320

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Chloride

Project: PARKWAY WEST SWD #1

0113012

GM

30-Nov-20

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

B - 13 - 1' H003117-37 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										

mg/kg

16.0

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Reported:

01-Dec-20 16:46



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

B - 13 - 2'

H003117-38 (Soil)

Analyte	Result	MDL	Limit	Units	Dilution	Batch	Anaiyst	Anaryzed	Method	Notes
Analyte	Result	MDL	Reporting	Units	Dilution	Datak	Analyst	Analyzed	Method	Notes

#### Cardinal Laboratories

**Inorganic Compounds** 0113012 GM 30-Nov-20 4500-Cl-B Chloride 96.0 16.0 mg/kg

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence are any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240

Project: PARKWAY WEST SWD #1

Reported: 01-Dec-20 16:46

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

**B-13-BOTTOM** 

H003117-39 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



## **Analytical Results For:**

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240 Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

## **Inorganic Compounds - Quality Control**

## **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0112512 - 1:4 DI Water										
Blank (0112512-BLK1)				Prepared &	: Analyzed:	25-Nov-20				
Chloride	ND	16.0	mg/kg							
LCS (0112512-BS1)				Prepared &	Analyzed:	25-Nov-20				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (0112512-BSD1)				Prepared &	Analyzed:	25-Nov-20				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 0113011 - 1:4 DI Water										
Blank (0113011-BLK1)				Prepared &	Analyzed:	30-Nov-20				
Chloride	ND	16.0	mg/kg							
LCS (0113011-BS1)				Prepared &	Analyzed:	30-Nov-20				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (0113011-BSD1)				Prepared &	Analyzed:	30-Nov-20				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Batch 0113012 - 1:4 DI Water										
Blank (0113012-BLK1)				Prepared &	: Analyzed:	30-Nov-20				
Chloride	ND	16.0	mg/kg							
LCS (0113012-BS1)				Prepared &	Analyzed:	30-Nov-20				
Chloride	400	16.0	mg/kg	400		100	80-120	·	·	·

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



## Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240 Project: PARKWAY WEST SWD #1

Project Number: 49

Project Manager: CHRIS JONES

Fax To:

Reported: 01-Dec-20 16:46

## **Inorganic Compounds - Quality Control**

## **Cardinal Laboratories**

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

#### Batch 0113012 - 1:4 DI Water

LCS Dup (0113012-BSD1)				Prepared & Analyzed: 3	0-Nov-20			
Chloride	400	16.0	mg/kg	400	100	80-120	0.00	20

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 45 of 49

Received by OCD: 1/27/2023 9:08:17 AM

Page 46 of 49

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Pima Environment Project Manager:	41			В	ILL TO			ANALY	SIS REQI	IEST	
Chris Jokes			P.O.	#: 20	0890.	519		AIGALI	OIS REQU	JEST	_
Address: 1601 N. Turner	STE	500			Devo		1				
City: Ho 665 State: NA	Zip:	88240	Attn	Ton	" By	NOM					
Phone #: 9 64 - 7740 Fax #:				ress:	,	,,,,,,,					
Project #: 49 Project Owner	r: D	Perox	City								
Project Name: Park way West	SWD	#1	State		Zip:		1				
Project Location: Eddy, Nim			Pho		Δiγ.						
Sampler Name: Robert Colper			Fax				1	1 1			
FOR LAB USE ONLY		MATRIX	_	RESERV.	SAN	PLING	-				
Lab I.D.    Sample I.D.   Plilipo   Plilipo   Plilipo   Plilipo   Plilipo   Plilipo   Plilipo   Plilipo   Plilipo   Plilipo	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER;	ICE / COOL	DATE 11/23 11/23 11/23 11/23 11/23 11/23 11/23 11/23	TIME 0855 0855 0500 0905 0910 0915 0925 0930 0935	Chloris				

Relinquished By:	Date: Received Time: 2:10	ndless of whether such claim is based upon any of the aboved By:  Odi AllenSov	verstated reasons or otherwise.  Verbal Result:
Reiniquisned-bγ:	Date: Receiv	ved By:	* Sample IDS revised as per Chris. 12/1/10 Ch
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.	Sample Condition CHECKED Cool Intact Life See See See See See See See See See S	Thermometer ID #97 113
	+ Cardinal counct	4	Correction Factor + 0.4 °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

1/27/2023 9:08:17 AM

Received by OCD:

Sampler - UPS - Bus - Other:

Page 47 of

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Project Manager: Chiir Jones	60/				ILL TO			ANAL	YSIS REQ	UEST	
disease 1601 al			P.	0. #: 20	08 90	519			1120	1	
ddress: 1601 N. Turner	STE	500	Co	ompany:	Dev	on	0				
State: 1	m Zip: 8	8 240	Att	tn: 70	m B	ywom	13.4				
hone #: 964 - 7740 Fax #:			Ad	idress:		120-1	7-1				
roject #: 49 Project Ov	vner: De	inn	Cit	tv-			5				
roject Name:	SUD	#1		ate:	7:	- 21					
roject Location: Eddy Nm		1		one #:	Zip:	1					
roject Location: Eddy, Nm ampler Name: Robert Carper							16				
OR LAB USE ONLY	TIT	MATRIX		Fax #: PRESERV. SAMPLING			3				
	ĕ.			REDERV	JAN	PLING	1				
	C)OI	H EK					1 9 1				
.ab I.D. Sample I.D.	OR (	VATE		<b>2</b>			19				
2000	# CONTAINERS	WASTEWATER SOIL	SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:			29				
D3111 B	(G)R	SOIL SOIL	J. L.	ACID/BA ICE / CO OTHER:	DATE	TIME	191				
11 9-4-2'	G	1	0, 0	4 2 0	11/23	0800	W V				
12 5-4- BOTTOM					11/23		19				
13 5-5-11					11/23						
14 5-5-21 15 5-5- Rottom						0815					
15 5 - 5 Bottom					11/23	08130		+++		1	
16 5-6-1					11/23	0825					
11 5-6-2'					11/23	0830					
18 5-6- BOTTOM					11/23	0835			-	+	
19 1- 7 - 1'					11/23	0840			-		
E NOTE: Liability and Darmaces. Carrieral's liability and stouts					11/20	a/					
is. All claims including those for neoligence and any other action whether remedy for	or any claim arising who be deemed waived un	hether based in control	and receive	hall be limited to	the amount paid	by the client for the	ne .				
to successors arising out of or related to the performance of	ding without limitation, by Cardinat, regardless	business interruption	ns, loss of us	se, or loss of pro	its incurred by cl	completion of the ent, its subsidiarie	applicable s,				
nquished By:  Date:	Received	By:	1	upon any or the	above stated rea	Verbal Res	ult:	No Add'l Pho	no #-		
Time:	/ma	10 101	011	10	1	All Results	are emailed. Please	e provide Email	address:		
nquished By Date:	Received	By:	en	SUV							
Time:		<b>D</b> ,				REMARKS:					
ivered By: (Circle One) Observed Temp. °C	4,1	Sample Cond	ition	CHECKE	D,BY:	urnaround	Time: Stand	ard Ra			

Cool Intact

Yes Yes

No No Thermometer ID #97- 11 3 Correction Factor + 0.4 °C † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Cool Intact

Yes Yes

No No

Corrected Temp. °C

Standard

Bacteria (only) Sample Condition

Observed Temp. °C

Corrected Temp. °C

Page 48 of 49



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Pinn Enviro	Mental		ILL TO		V.	ANAI Y	SIS REQUEST	
Project Manager: Chris Jone Address: //on/ N Time	-	P.O. #: 26	18905	19		1 1 1	TL QUEST	
11 10 IUNE	STE 500	Company:	Devo	n	7 1 1			
State	Nm Zip: 88240	Attn: Tor	n Bun	vum				
Phone #: 964-7740 Fax #:		Address:	,,,					
roject #: 49 Project	Owner: Devon	City:			1			
roject Name: WACKI	1. 14.	State:	Zip:		1		111	
Project Location: Eddy, Nm Sampler Name: Robert CAI PEI		Phone #:	Ζiμ.		111			
ampler Name: Robert CAI PER	1	Fax #:			+ $+$ $+$ $+$	1 1 1	1 1 1	
FOR LAB USE ONLY	MATRIX	PRESERV.	SAMP	LING	441		1 1 1	
	₹ ~				13			
LahlD	(G)RAB OR (C)OI # CONTAINERS GROUNDWATER WASTEWATER SOIL				13			
Lab I.D. Sample I.D.	NA TAN	OL SE			0	1 1 1	111	
CORNER R	(G)RAB OR (C)C # CONTAINERS GROUNDWATE WASTEWATER SOIL	CO CO			1			
003119 B	# CONTAINERS # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	TIME	0			
21 S-7-Bottom 22 S-8-11 23 S-8-21 24 S-8-Bottom	9 1		4/23	0940				
73 5				0945				
20 3 - 8 - 31				0950				
75 8- 80 Hom			/	000				
21. 8 - 2 - 1			11/23	1005				
20 8-0-0				1010				
25 5 - 9 - 1' 24 5 - 9 - 3' 21 5 - 9 - BOTTOM 28 5 - 10 - 1'			11/27	1015				
29 5 - 10 - 2		$\perp \perp \perp \perp$	11/27	1020				
2011			11/23 1	025				
SE NOTE: Liability and Damages. Cardinal's liability and client's exclusive rem see. All claims including those for negligence and any other cause whatsoever	edy for any claim arising whether based in section		11/23	103,				
les or successors arising out of or related to the performance of services hereun inquished By:  Date:	oder by Cardinal, regardless of whether such claim	oss of use, or loss of profits based upon any of the a	its incurred by clien above stated reason	it, its subsidiarie	es,			
100 - 11/2			V	erbal Res	ult: Tyes T	No Add'l Phone	#:	
Time:	o gloge the	MADI	1	resuits	are emailed. Pleas	se provide Email add	ress:	
inquished (a): Date:	Received By:		R	EMARKS:				

rifiliates or successors arising out of or related to the price of the	Time: 2.30	Dodi Hen	son	Verbal Result: Y		d'I Phone #: Email address:
and an analysis	Date: Re	ceived By:		REMARKS:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C	Sample Condition Cool Intact Yes Yes No No	CHECKED BY:	Turnaround Time:	Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
0.11.0001(0.100/04/20	† Cardinal canno	ot accept verbal changes.	Places amailiate	Correction Factor None		

Page 49 of 49

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

oject Manager: Chris Jones  dress: 1601 N. Turver  y: Hobbt State: No  one #: 964 - 77 40 Fax #:  oject #: 45 Project Ow  oject Name: Parit way west of  oject Location: Eddy, Nm  mpler Name: Pobeit Chirles			£ 58	58	00		P.O.	#:20	89	200		_	-		- 11 11	ALYSI	- 1/2	QUE:	71	
one #: 164 - 77 % Fax #:  oject #: 45 Project Ow			58	56	00		Com			03	19	- 1								
one #: 164 - 77 % Fax #:  oject #: 45 Project Ow			58	24	-		COIII	pany:	1	evo	wen	7								
one #: 164 - 77 % Fax #:  oject #: 45 Project Ow					0	Į.	Attn:	Ton	4	BI	ven						1 1			
pject #: 49 Project Own  pject Name: Parit way west of  ject Location: Eddy, Nm  ppler Name: Propert Consider to	vner: d						Addr			4.		1								
ject Name: Paritury west conject Location: Eddy, Nm	ect Name: PARILWAY WEST SLOD #1						City:					1	1 1							
plect Location: Eddy, Nm	SUD		#	1			State		Zip			1								
npler Name: RipherT Cara DE a				_			Phon		-ip											
FOODI CHITCH						- 1	ax #					1	4							
R LAB USE ONLY				MA	TRIX	_	_	RESERV	1	SAN	IPLING	٦,	0							
	MP		œ										1							
ahlD	(C)OMP	ERS	ATE	Ľ,	Н							1	2							
ab I.D. Sample I.D.	8	Ā	WG!	Y A	1.1		SE	5					9							
003119 B	RAB	# CONTAINERS	GROUNDWATER	0 7	П	DG	O/BA	ICE / CO				6								
	(G)RAB OR	#	GR	SOIL	등	SLL	ACID/BASE	ICE / COOL OTHER:	D	ATE	TIME	1								1
31 5-11-1 32 5-11-2 33 5-11-BOTTOM 34 5-12-1 35 5-12-2 36 5-12-3 31 5-13-1	19	$\square$		1					4	123	10 35	1						_	_	+
33 5-11-2	-111	Н			Ш	4			11	27	1040							1	-	1
33 S-1/- Bottom	-111	$\vdash$	4	-1		4			10	23	1045									1
35 5 - 12 2	+H	$\dashv$	+	-		+					1050									1
36 5-12-BOTTOM	+H	$\dashv$	-	$\parallel$		+				23	1055									
37 5-13-1	-111	-	+	-	4	1			11/	23	1100									
39 5-13-2	-111	-	+		+	-		1	11/	23	1105	П								
39 3-13-BOTTOM	Ш	1	+	1	-	-		1			1110	11								
	2	1		1		4		<b>1</b>	-	_	1115	-	-					14		
NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for All claims. including those for negligence and any other cause whatsoever shall be	r any claim a	arising	whether	based in	n contra	ct or for	t, shall I	be Similard to	the arr	ount rold	A large de la larg	l.								
in no event shall Cardinal be liable for incidental or seesan and the			0111000 H	nege III	woming a	ua sece	wed by	Cardinal with	hin 30 c	lays after	completion of the	in mark	cable							
quished By: Date: / /	Rece	200,000	d By	reality 30	uch clair	n is bas	ed upor	any of the a	above s	tated rea	sons or otherwise	e.								
(7) - Time:	0 1.	1	1		M						Verbal Res All Results	sult:	☐ Yes emailed. Ple	□ No	Add'l F	hone #:				
Quichad D. 2:30	4/8	20	u	1	M	V	11	ON		-			The state of the	ase pro	nue Ema	an addre	55:			
Date:	Bece	eive	d By:	-							REMARKS	<b>:</b>								

(S:
nd Time: Standard Rush □ Bacteria (only) Sample Condition □ Cool Intact □ Observed Temp. °C □ No □ No □ Corrected Temp. °C
ne

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



January 06, 2021

CHRIS JONES
PIMA ENVIROMENTAL
1601 N TURNER STE. 500
HOBBS, NM 88240

RE: PARKWAY WEST SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 12/31/20 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 12/31/2020 Reported: 01/06/2021

Project Name: PARKWAY WEST SWD #1

Project Number: 49

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 12/31/2020

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Jodi Henson

## Sample ID: NORTH WALL COMP #1 (H003369-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2021	ND	1.99	99.4	2.00	1.76	
Toluene*	<0.050	0.050	01/04/2021	ND	1.92	96.1	2.00	1.63	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.98	98.9	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.65	94.2	6.00	1.27	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/05/2021	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	10.7	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	97.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.3	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 12/31/2020 Reported: 01/06/2021

PARKWAY WEST SWD #1

Project Name: Project Number: 49

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 12/31/2020

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Jodi Henson

## Sample ID: NORTH WALL COMP #2 (H003369-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2021	ND	1.99	99.4	2.00	1.76	
Toluene*	<0.050	0.050	01/04/2021	ND	1.92	96.1	2.00	1.63	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.98	98.9	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.65	94.2	6.00	1.27	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/05/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	96.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.4	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 12/31/2020 Reported: 01/06/2021

PARKWAY WEST SWD #1

Project Name: Project Number: 49

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 12/31/2020

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Jodi Henson

## Sample ID: NORTH WALL COMP #3 (H003369-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2021	ND	1.99	99.4	2.00	1.76	
Toluene*	<0.050	0.050	01/04/2021	ND	1.92	96.1	2.00	1.63	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.98	98.9	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.65	94.2	6.00	1.27	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/05/2021	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	91.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.6	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 12/31/2020 Reported: 01/06/2021

PARKWAY WEST SWD #1

Project Number: 49

Project Name:

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 12/31/2020

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Jodi Henson

## Sample ID: NORTH WALL COMP #4 (H003369-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2021	ND	1.99	99.4	2.00	1.76	
Toluene*	<0.050	0.050	01/04/2021	ND	1.92	96.1	2.00	1.63	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.98	98.9	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.65	94.2	6.00	1.27	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/05/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	93.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.5	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240

Fax To:

Received: 12/31/2020 Reported: 01/06/2021

PARKWAY WEST SWD #1

Project Number: 49

Project Name:

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 12/31/2020

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Jodi Henson

#### Sample ID: WEST WALL COMP #1 (H003369-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2021	ND	1.99	99.4	2.00	1.76	
Toluene*	<0.050	0.050	01/04/2021	ND	1.92	96.1	2.00	1.63	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.98	98.9	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.65	94.2	6.00	1.27	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/05/2021	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	98.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.0	% 42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 12/31/2020 Reported: 01/06/2021

PARKWAY WEST SWD #1

Project Number: 49

Project Name:

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 12/31/2020

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Jodi Henson

#### **Sample ID: WEST WALL COMP #2 (H003369-06)**

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2021	ND	1.95	97.7	2.00	2.50	
Toluene*	<0.050	0.050	01/04/2021	ND	1.86	93.2	2.00	3.88	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.94	97.0	2.00	3.74	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.56	92.6	6.00	3.12	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/05/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	96.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.9	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 12/31/2020 Reported: 01/06/2021

PARKWAY WEST SWD #1

Project Number: 49

Project Name:

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 12/31/2020

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Jodi Henson

#### Sample ID: WEST WALL COMP #3 (H003369-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2021	ND	1.95	97.7	2.00	2.50	
Toluene*	<0.050	0.050	01/04/2021	ND	1.86	93.2	2.00	3.88	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.94	97.0	2.00	3.74	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.56	92.6	6.00	3.12	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	01/05/2021	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	96.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.0	% 42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of groffits incurred by client is subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 12/31/2020 Reported: 01/06/2021

PARKWAY WEST SWD #1

Project Number: 49

Project Name:

EXT DRO >C28-C36

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 12/31/2020

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Jodi Henson

Sample ID: WEST WALL COMP #4 (H003369-08)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2021	ND	1.95	97.7	2.00	2.50	
Toluene*	<0.050	0.050	01/04/2021	ND	1.86	93.2	2.00	3.88	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.94	97.0	2.00	3.74	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.56	92.6	6.00	3.12	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	01/05/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	

ND

01/04/2021

Surrogate: 1-Chlorooctane 96.8 % 44.3-144 Surrogate: 1-Chlorooctadecane 91.7% 42.2-156

<10.0

10.0

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 11 of 11

Released to Imaging: 2/2/2023 8:09:56 AM

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Pima Exvironmental	BILL TO	ANALYSIS REQUEST
Project Manager: Chiris Jones	P.O. #: 2059 US19	
Address: 1601 N. Turner Ste 500	Company: Devon	
City: 14066 State:NMZip: 8824	O Attn: Wes Mathews	
Phone #: 575-631-6977 Fax #:	Address:	
Project #: 49 Project Owner: Devok	City:	
Project Name: PACKWAY West SWD #1	State: Zip:	
Project Location: EDDY County	Phone #:	
Sampler Name: MATK Newcomb	Fax #:  RIX PRESERV. SAMPLING	0
FOR LAB USE ONLY	RIX PRESERV. SAMPLING	
# CONTAINERS GROUNDWATER WASTEWATER  WASTEWATER  GROUNDWATER  WASTEWATER  WASTEWATER	OTHER: ACID/BASE: ICE / COOL OTHER:  AT P T P T -	Ch lorid
North Wall Comp #1	12/31/20 1	
2 North WALL Comp#2		
3 North WALL COMP#3		
4 North Wall Comp#4		
5 WEST WALL COMP#1 WEST WALL COMP#2		
West WALLCOMP#2		
8 West WAIL COMP #4	7 7 7	+
	In contract or tool, shall be limited to the amount paid by the client for the	

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, rewarder by Carrinal repartiess of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Pate: 31 2 Receive	di denson	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Receive	ed By:	Bill to Devon
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 14,3 Corrected Temp. °C	Sample Condition Cool Intact  Yes Yes No No	Turnaround Time:  Standard Rush  Bacteria (only) Sample Condition Cool Intact Observed Temp. °C  Thermometer ID #113 Correction Factor None  Bacteria (only) Sample Condition Cool Intact Observed Temp. °C



January 12, 2021

CHRIS JONES
PIMA ENVIROMENTAL
1601 N TURNER STE. 500
HOBBS, NM 88240

RE: PARKWAY WEST SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 01/08/21 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/08/2021 Reported: 01/12/2021

PARKWAY WEST SWD #1

Project Number: 49

Project Name:

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: WEST WALL #3 (H210056-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2021	ND	1.99	99.4	2.00	8.19	
Toluene*	<0.050	0.050	01/11/2021	ND	1.95	97.7	2.00	9.09	
Ethylbenzene*	<0.050	0.050	01/11/2021	ND	1.90	95.0	2.00	9.54	
Total Xylenes*	<0.150	0.150	01/11/2021	ND	5.58	93.0	6.00	9.35	
Total BTEX	<0.300	0.300	01/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/11/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2021	ND	232	116	200	2.72	
DRO >C10-C28*	<10.0	10.0	01/11/2021	ND	235	118	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	01/11/2021	ND					
Surrogate: 1-Chlorooctane	84.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.4	% 42.2-15	6						

A ... - L ... - - - I D. .. MC

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/08/2021 Reported: 01/12/2021

PARKWAY WEST SWD #1

Project Number: 49

Project Name:

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Tamara Oldaker

#### Sample ID: WEST WALL #4 (H210056-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2021	ND	1.99	99.4	2.00	8.19	
Toluene*	<0.050	0.050	01/11/2021	ND	1.95	97.7	2.00	9.09	
Ethylbenzene*	<0.050	0.050	01/11/2021	ND	1.90	95.0	2.00	9.54	
Total Xylenes*	<0.150	0.150	01/11/2021	ND	5.58	93.0	6.00	9.35	
Total BTEX	<0.300	0.300	01/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/11/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2021	ND	232	116	200	2.72	
DRO >C10-C28*	<10.0	10.0	01/11/2021	ND	235	118	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	01/11/2021	ND					
Surrogate: 1-Chlorooctane	98.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.3	% 42.2-15	6						

#### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Received by OCD: 1/27/2023

Page 5 of

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	Dimo Edvironen		1				Т			BI	LL TO					ANALY	SIS RI	EQUES	T		_
	: Chris Jones	, ,					t	P.O.	. #:		8905	19									
Address Has	of N. Turner Stes	n	0				_			-	evas		1	19					- 1		
Address: (%	os State: Nm	Zin	. 9	82	4	C					MA		1			1 1					
City: House	-631-6977 Fax#:	Zip	. 0					Add					1								1
Phone #: > ( >	9 Project Owner	- i	10	Vor	J		-1	City													
Project #: 9	PACKWAY SWD#1			101	_		_	Stat			Zip:		1					1 1		1	
Project Name:	ENNY POLITY						- 1	Pho					1					1 1			1
	m: FDDY County MARK NEWCOMB						_	Fax					11		2						
Sampler Name:	MINT & NEWCONCO	Т	Т		M	ATRI	_			SERV.	SAN	PLING	TX.		0						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE		- HRL	BTEX	Shloride			).a.v.			
1	WEST WAIL #3	П									1/8/21	1:15	H	1)	H		+			-	+
2	WEST WAIL # 4	17	╀		-	-	-	Н		7	1		1	4	*		+				1
		1	1		+	+	1										-				
														4			-				-
												-	1	-				1			+
		1	1			1	-			-	-	-	1	-		-		1		_	$\exists$
		-	1			+	+			-	-	-	-	-							
		1	1		4	+	+	-		-	-		1	-	1						
											to the owner of	oid by the effect f	or the								

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, artificates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Time: / 3/5	Received By:	uara L	Oldaker	Verbal Result:			Phone #: nail address:
Relinquished By:	Date: Time:	Received By:			REMARKS:		evi	/
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Cool	le Condition Intact es Yes	(Initials)	Turnaround Time: Thermometer ID #113 Correction Factor None	Standard Rush		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C  Yes Yes No No Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



January 18, 2021

CHRIS JONES
PIMA ENVIROMENTAL
1601 N TURNER STE. 500
HOBBS, NM 88240

RE: PARKWAY WEST SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 01/13/21 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/13/2021 Reported: 01/18/2021

PARKWAY WEST SWD #1

Project Name: PA
Project Number: 49

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: EAST WALL # 4 (H210085-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	79.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.6	% 42.2-15	6						

A ... - L ... - - - I D. .. MC

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/13/2021 Reported: 01/18/2021

PARKWAY WEST SWD #1

Project Name: PAI Project Number: 49

RTFY 8021R

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: SOUTH WALL # 4 (H210085-02)

BIEX 8021B	mg	/кд	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	81.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.1	% 42.2-15	6						

Analyzed By: MC

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/13/2021

01/18/2021

Project Name: PARKWAY WEST SWD #1

Project Number: 49

Reported:

RTFY 8021R

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: EAST WALL # 1 (H210085-03)

B1EX 8021B	mg/	rkg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/14/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	80.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.7	% 42.2-15	6						

Analyzed By: MC

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/13/2021 Reported: 01/18/2021

Project Name: PARKWAY WEST SWD #1

Project Number: 49

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: SOUTH WALL # 1 (H210085-04)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	87.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.0	% 42.2-15	6						

#### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/13/2021

Reported: 01/18/2021

Project Name: PARKWAY WEST SWD #1
Project Number: 49

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: EAST WALL # 2 (H210085-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	81.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.6	% 42.2-15	6						

Applyzod By: MC

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/13/2021 Reported: 01/18/2021

PARKWAY WEST SWD #1

Project Number:

Project Name:

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

#### Sample ID: SOUTH WALL # 2 (H210085-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	96.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.7	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/13/2021 Reported: 01/18/2021

PARKWAY WEST SWD #1

Project Number: 49

Project Name:

BTEX 8021B

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: EAST WALL #3 (H210085-07)

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	93.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.7	% 42.2-15	6						

Analyzed By: MS

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreine



Jodi Henson

#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/13/2021 Reported: 01/18/2021

 01/13/2021
 Sampling Date:
 01/08/2021

 01/18/2021
 Sampling Type:
 Soil

 PARKWAY WEST SWD #1
 Sampling Condition:
 Cool & Intact

Sample Received By:

Project Name: PARKWAY WEST SWD #1
Project Number: 49

Sample ID: SOUTH WALL # 3 (H210085-08)

Project Location: DEVON - 32.635774-104.069381

mg/	kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/16/2021	ND	2.14	107	2.00	0.624	
<0.050	0.050	01/16/2021	ND	2.08	104	2.00	2.86	
<0.050	0.050	01/16/2021	ND	2.02	101	2.00	2.82	
<0.150	0.150	01/16/2021	ND	5.91	98.4	6.00	2.61	
<0.300	0.300	01/16/2021	ND					
	Result <0.050 <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed  <0.050 0.050 01/16/2021  <0.050 0.050 01/16/2021  <0.050 0.050 01/16/2021  <0.150 0.150 01/16/2021	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

Surrogate:	4-Bromofluorobenzene	e (PID	101 %	73.3-129

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					

Surrogate: 1-Chlorooctane 90.7 % 44.3-144
Surrogate: 1-Chlorooctadecane 88.4 % 42.2-156

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/13/2021 Reported: 01/18/2021

PARKWAY WEST SWD #1

Project Name: PA

BTEX 8021B

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: SOUTH WALL # 6 (H210085-09)

DILX GOZID	11197	ng .	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2021	ND	2.14	107	2.00	0.624	
Toluene*	<0.050	0.050	01/16/2021	ND	2.08	104	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/16/2021	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	01/16/2021	ND	5.91	98.4	6.00	2.61	
Total BTEX	<0.300	0.300	01/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	90.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.4	% 42.2-15	6						

Analyzed By: MS

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/13/2021 Reported: 01/18/2021

01/18/2021 Sa PARKWAY WEST SWD #1 Sa

Project Name: PAI Project Number: 49

RTFY 8021R

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: SOUTH WALL # 5 (H210085-10)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2021	ND	2.14	107	2.00	0.624	
Toluene*	<0.050	0.050	01/16/2021	ND	2.08	104	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/16/2021	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	01/16/2021	ND	5.91	98.4	6.00	2.61	
Total BTEX	<0.300	0.300	01/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	95.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.9	% 42.2-15	6						

Analyzed By: MC

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



#### Analytical Results For:

PIMA ENVIROMENTAL **CHRIS JONES** 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/13/2021 Reported: 01/18/2021

PARKWAY WEST SWD #1

Project Number:

Project Name:

Project Location: DEVON - 32.635774-104.069381 Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

#### Sample ID: SOUTH WALL # 7 (H210085-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2021	ND	2.14	107	2.00	0.624	
Toluene*	<0.050	0.050	01/16/2021	ND	2.08	104	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/16/2021	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	01/16/2021	ND	5.91	98.4	6.00	2.61	
Total BTEX	<0.300	0.300	01/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	86.5 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.0 9	42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, 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 by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



#### Analytical Results For:

PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 01/13/2021 Reported: 01/18/2021

PARKWAY WEST SWD #1

Project Name: PA
Project Number: 49

BTEX 8021B

Project Location: DEVON - 32.635774-104.069381

Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: SOUTH WALL #8 (H210085-12)

DILX GOZID	11197	ng .	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2021	ND	2.14	107	2.00	0.624	
Toluene*	<0.050	0.050	01/16/2021	ND	2.08	104	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/16/2021	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	01/16/2021	ND	5.91	98.4	6.00	2.61	
Total BTEX	<0.300	0.300	01/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	1.44	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	225	112	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	81.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	77.6	% 42.2-15	6						

Analyzed By: MS

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

Page 15 of 16

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	ny Name: Pina Environmental					BILL TO						ANALYSIS REQUEST														
Project Manage	er: Chris Jones							P.C	). #:	20	98	905	19				T		T	Т	$\neg$					П
Address: 160	1 N. Turner Ste 500											levor		1												11
City: Hobb		Zip	: 8	82	40							uatt l		1												
Phone #: 57	5-631-6977 Fax#:						- 1		dres		•			1												
Project #: 4°	Project Owner	r:	1	Dev	on			City	v:																	
Project Name:	Parkway Wat SwD Parkw	soc u	10	est	- 5	WY	)	Sta			Zip	p:														
Project Location	n: 6004	1							one	#:																
Sampler Name:								Fax						1												
FOR LAB USE ONLY	(710 D)110 Z	Г			M/	ATRIX	(		PRE	SERV.	I	SAME	PLING	1												
Lab I.D.	Sample I.D.	(G)RAB.OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:		DATE	TIME	TPH EX	BTBY	110	chiarae									
1	East wall #4	C			1				1	X		-8-21	10:00	-		-	1									$\Box$
2	East wall #4 South wall #4 East way #1	1								1		1	10:10		1											
3	East way 41	П											9200													
4	SOWN Wall	П									L		9:10													$\Box$
5	East Wall 42	Ш									1	1	9:20											1		$\sqcup$
6	Eouth Wall 43 Gast Wall 43	Ш									L		9:30	1				_								$\perp$
	Gast Wall #3	П											9:40				1			1						$\sqcup$
8	South Wall #3							4	4				9:50				1		-	1	-					$\sqcup$
4 South	World 46	Н						-			-		10:30	1	1			_		1	-					
I EASE NOTE: Linking on	-Sarth Watt 45 ad Damages. Cardinal's liability and client's exclusive remedy for a	1			4	1	No. 1		1		_	ال	10:30	1	2	4	1						C 11			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By:	Date: /-/3-2/ Time: 4:45	Received By:	yon	Verbal Result: Y		d'I Phone #: Email address:
Relinquished By.	Date:	Received By:		REMARKS:		,
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C	3.1 Sample Condition Cool Intact Yes Yes No No	CHECKED BY:	Turnaround Time: Thermometer ID #113 Correction Factor None	Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C  Yes Yes No No Corrected Temp. °C

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 16

Released to Imaging: 2/2/2023 8:09:56 AM

Bacteria (only) Sample Condition

Cool Intact

Yes Yes
No No

Observed Temp. °C

Corrected Temp. °C

Standard

Rush

Turnaround Time:

Thermometer ID #113

Correction Factor None

101 East Marland, Hobbs, NM 88240

Time:

Observed Temp. °C 3

Corrected Temp. °C

	(575) 393-2326 FAX	(575) 393-247	6					-	Sisteria			377				_		ANALYSI	S REQI	UEST		
Company Name:	Pima Envio	moutd						-					L TO	ma I				ANALIO				
Project Manager:									P.0				08 90	5/7		- 1						
Address: /60	N. Turner	ste	300			~ .			_				evon									
city: /fobb		State: NM	Zip:		80	<i>d</i> 40			Attr	n: 14	l es		Matheu	us								
Phone #: 575	- 1031- 4977	Fax #:							Add	ires	s:											
Project #: 4	9	Project Owner:	0	br	~				City	<i>r</i> :												
	ark way West	SWY							Sta	te:		2	Zip:									
Project Location									Pho	one	#:											
Sampler Name:	Gio Game	2							Fax					1	EXT							
FOR LAB USE ONLY	Old Carrie					MA	TRIX			PRE	SER	٧.	SAMP	LING	Th		2		1 1			
	0		R (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER				Ë.	7.				Md	BITEX	home					
Lab I.D.	Sample I.	D.	AB OR	NTAI	OND	TEW	OIL	GE	ER:	/BAS	000	ER			1		0					
H210085			(G)RAB	CO	3RO	WAST	1	SLUC	DTH	ACIE	CE/	OTHER	DATE	TIME					-	-	+	$\rightarrow$
ALIDOS	Sallawall	42	C	#		-	,				K		1-8-21	11:00	1	V	X	- 122			-	-
10	South wall	48	c			2					1		_	11:10	L	+	4		1	_	-	-
16	John					1													+	-	+++	-
																			+ +		+++	-
																			+ +		+ +	-
															-	-			+	- 11	1	-
								L							-		-		+ +		1	
							1	OF							-	-	+		+ +		1 1	
						4	1	H	H								1		1			
						there have	ad in c	unfrain	t or to	t shall	be in	nited t	o the amount oai	id by the client fo	or the							
PLEASE NOTE: Liability ar analyses. All claims includi	nd Damages. Cardinal's liability and clie and those for negligence and any other of	ent's exclusive remedy for an cause whatsoever shall be o	ny clair deeme	m ans d wah	ng whe	ess mad	e in writ	ing an	nd rece	sived b	y Card	final w	within 30 days after	er completion of a	the applica aries.	ble						
service. In no event shall C affiliates or successors arisi	ng those for negligence and any other of ardinal be liable for incidental or conse- ing out of or related to the performance	quental damages, including of services hereunder by C	ardina	l, rega	rdless	of wheth	er such	claim	is ba	sed up	on any	of the	e above stated re	Workal P	neult.	ПУ	es 🗆 I	No Add'l Pho	ne #:			
Relinquished B	v: /	Date: 1-13-2(	Re	Cei	ved	By:								All Result	ts are e	mailed	i. Please	provide Email a	ddress:			
Relinguished B	v. Y	Date:	R	cei	ved	By:								REMARK	(S:							

Cool Intact
Yes Yes
No No † Cardinal cannot accept verbal changes. Rease email changes to celey.keene@cardinallabsnm.com

CHECKED BY:

Sample Condition

# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-716-1

Client Project/Site: Mizar 11 Fed Com 14

For:

EOR/Ridgeway Arizona Oil Corp 575 N Diairy Ashford Suite 210 Houston, Texas 77079

Attn: Chris Jones

Holly Taylor

Authorized for release by: 5/28/2021 4:44:39 PM

Holly Taylor, Project Manager (806)794-1296

holly.taylor@eurofinset.com

.....LINKS .....

results through
Total Access

**Review your project** 

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 2/2/2023 8:09:56 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

3

5

6

10

12

13

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Laboratory Job ID: 890-716-1

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	6
Surrogate Summary	37
QC Sample Results	41
QC Association Summary	59
Lab Chronicle	69
Certification Summary	81
Method Summary	82
Sample Summary	83
Chain of Custody	84
Receipt Checklists	91

## **Definitions/Glossary**

Client: EOR/Ridgeway Arizona Oil Corp Job ID: 890-716-1 Project/Site: Mizar 11 Fed Com 14

#### **Qualifiers**

GC VOA	
Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased

#### GC Semi VOA

S1+

U

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

#### **HPLC/IC**

**PRES** 

QC

RL

RER

RPD

TEF

TEQ

TNTC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Surrogate recovery exceeds control limits, high biased.

Indicates the analyte was analyzed for but not detected.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

Eurofins Xenco, Carlsbad

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Presumptive

**Quality Control** 

#### **Case Narrative**

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Job ID: 890-716-1

Job ID: 890-716-1

Laboratory: Eurofins Xenco, Carlsbad

**Narrative** 

Job Narrative 890-716-1

#### Receipt

The samples were received on 5/21/2021 1:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

#### **Receipt Exceptions**

The following samples analyzed for method 8021 were received and analyzed from an unpreserved bulk soil jar: CS1-Surface (890-716-1), CS1-1' (890-716-2), CS2-Surface (890-716-3), CS2-1' (890-716-4), CS3-Surface (890-716-5), CS3-1' (890-716-6), CS4-Surface (890-716-7), CS4-1' (890-716-8), CS5-Surface (890-716-9), CS5-1' (890-716-10), CS6-Surface (890-716-11), CS6-1' (890-716-12), CS7-Surface (890-716-13), CS7-1' (890-716-14), CS8-Surface (890-716-15), CS8-1' (890-716-16), CS9-urface (890-716-17), CS9-1' (890-716-18), CS10-Surface (890-716-19), CS10-1' (890-716-20), CS11-Surface (890-716-21), CS11-1' (890-716-22), CS12-Surface (890-716-23), CS12-1' (890-716-24), CS13-Surface (890-716-25), CS13-1' (890-716-26), CS14-Surface (890-716-27), CS14-1' (890-716-28), CS15-Surface (890-716-29), CS15-1' (890-716-30), CS16-Surface (890-716-31), CS16-1' (890-716-32), CS17-Surface (890-716-33), CS17-1' (890-716-34), CS18-Surface (890-716-35), CS18-1' (890-716-36), CS19-Surface (890-716-37), CS19-1' (890-716-38), CS20-Surface (890-716-39), CS21-Surface (890-716-41), CS21-1' (890-716-42), CS22-Surface (890-716-43), CS22-1' (890-716-44), CS23-Surface (890-716-45) and CS23-1' (890-716-46). Btex8021

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: CS1-Surface (890-716-1), CS1-1' (890-716-2), CS2-Surface (890-716-3), CS2-1' (890-716-4), CS3-Surface (890-716-5), CS3-1' (890-716-6), CS4-Surface (890-716-7), CS4-1' (890-716-8), CS5-Surface (890-716-9), CS5-1' (890-716-10), CS6-Surface (890-716-11), CS6-1' (890-716-12), CS7-Surface (890-716-13), CS7-1' (890-716-14), CS8-Surface (890-716-15), CS8-1' (890-716-16), CS9-urface (890-716-17), CS9-1' (890-716-18), CS10-Surface (890-716-19), CS10-1' (890-716-20), CS11-Surface (890-716-21), CS11-1' (890-716-22), CS12-Surface (890-716-23), CS12-1' (890-716-24), CS13-Surface (890-716-25), CS13-1' (890-716-26), CS14-Surface (890-716-31), CS16-1' (890-716-32), CS17-Surface (890-716-33), CS17-1' (890-716-34), CS18-Surface (890-716-35), CS18-1' (890-716-36), CS19-Surface (890-716-37), CS19-1' (890-716-38), CS20-Surface (890-716-39), CS21-Surface (890-716-41), CS21-1' (890-716-42), CS22-Surface (890-716-43), CS22-1' (890-716-44), CS23-Surface (890-716-45) and CS23-1' (890-716-46). The client was contacted, and the laboratory was instructed to use a sample collection time of 12:00am. Samples logged as 00:00

#### **GC VOA**

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS7-1' (890-716-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-3388 recovered under the control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Internal standard responses were outside of acceptance limits for the following sample: CS22-Surface (890-716-43). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS11-1' (890-716-22), CS12-1' (890-716-24), CS13-1' (890-716-26), CS14-Surface (890-716-27), CS14-1' (890-716-28) and CS15-1' (890-716-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: CS22-1' (890-716-44) and CS23-1' (890-716-46). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS22-1' (890-716-44) and CS23-1' (890-716-46). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3457 and analytical batch

4

5

6

0

4.0

12

13

14

#### **Case Narrative**

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Job ID: 890-716-1

### Job ID: 890-716-1 (Continued)

#### **Laboratory: Eurofins Xenco, Carlsbad (Continued)**

880-3460 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

6

1

Ŏ

10

11

13

114

## **Client Sample Results**

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

**Client Sample ID: CS1-Surface** 

Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-1 Date Collected: 05/21/21 00:00

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Method: 8021B - Volatile Ol	rganic Compounds (	( <b>G</b> C)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1 F2	0.00202	mg/Kg		05/24/21 09:50	05/24/21 23:13	1
Toluene	<0.00202	U F1	0.00202	mg/Kg		05/24/21 09:50	05/24/21 23:13	1
Ethylbenzene	<0.00202	U F1	0.00202	mg/Kg		05/24/21 09:50	05/24/21 23:13	1
m-Xylene & p-Xylene	<0.00403	U F1	0.00403	mg/Kg		05/24/21 09:50	05/24/21 23:13	1
o-Xylene	<0.00202	U F1	0.00202	mg/Kg		05/24/21 09:50	05/24/21 23:13	1
Xylenes, Total	<0.00403	U F1	0.00403	mg/Kg		05/24/21 09:50	05/24/21 23:13	1
Total BTEX	<0.00403	U F1 F2	0.00403	mg/Kg		05/24/21 09:50	05/24/21 23:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91	70 - 130	05/24/21 09:50	05/24/21 23:13	1
1,4-Difluorobenzene (Surr)	98	70 - 130	05/24/21 09:50	05/24/21 23:13	1

Method: 6015B NW - Diesei Rang	e Organics (טו	RU) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 00:12	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 00:12	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 00:12	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 00:12	1
Cumanata	9/ Dagguerre	Ouglities.	l imaida			D	Analymad	D:// E

Surrogate	/ortecovery	Qualifier	Lillits		rrepareu	Allalyzeu	Diriac
1-Chlorooctane	104		70 - 130	05	5/25/21 08:49	05/26/21 00:12	1
o-Terphenyl	91		70 - 130	08	5/25/21 08:49	05/26/21 00:12	1
_							

Method: 300.0 - Anions, Ion Chron	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			05/26/21 20:26	1

Lab Sample ID: 890-716-2 Client Sample ID: CS1-1' Date Collected: 05/21/21 00:00 **Matrix: Solid** 

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/24/21 09:50	05/24/21 23:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/24/21 09:50	05/24/21 23:34	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/24/21 09:50	05/24/21 23:34	1
,	100	RO) (GC)						
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Xenco, Carlsbad

05/25/21 08:49 05/26/21 01:15

Method: 8015B NM - Diesel Range	Organics (DI	RO) (GC)			
Analyte	Result	Qualifier	RL	Unit	D
Gasoline Range Organics	<49.8	U	49.8	mg/Kg	

Released to Imaging: 2/2/2023 8:09:56 AM

(GRO)-C6-C10

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS1-1' Lab Sample ID: 890-716-2

Matrix: Solid

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 01:15	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 01:15	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 01:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			05/25/21 08:49	05/26/21 01:15	1
o-Terphenyl	97		70 - 130			05/25/21 08:49	05/26/21 01:15	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	D 14	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: CS2-Surface Lab Sample ID: 890-716-3 Date Collected: 05/21/21 00:00

5.03

mg/Kg

<5.03 U

Date Received: 05/21/21 13:48

Chloride

Matrix: Solid

05/26/21 20:41

Method: 8021B - Volatile Or	ganic Compounds (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/24/21 23:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/24/21 23:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/24/21 23:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/24/21 23:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/24/21 23:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/24/21 23:54	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/24/21 23:54	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	70 - 130	05/24/21 09:50	05/24/21 23:54	1
1,4-Difluorobenzene (Surr)	97	70 - 130	05/24/21 09:50	05/24/21 23:54	1

Method: 8015B NN	I - Diesel Range Organics	(DRO) (GC)

Method: 8015B NM - Diesei Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 01:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 01:37	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 01:37	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			05/25/21 08:49	05/26/21 01:37	1
o-Terphenyl	102		70 - 130			05/25/21 08:49	05/26/21 01:37	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble					Analyzed		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.05 U	5.05	ma/Ka			05/26/21 20:46	1	

Eurofins Xenco, Carlsbad

# **Client Sample Results**

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Lab Sample ID: 890-716-4

Matrix: Solid

Client Sample ID: CS2-1'
Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/21 09:50	05/25/21 00:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:15	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/21 09:50	05/25/21 00:15	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/24/21 09:50	05/25/21 00:15	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	89		70 - 130			05/24/21 09:50	05/25/21 00:15	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/24/21 09:50	05/25/21 00:15	
Method: 8015B NM - Diesel Rang Analyte	•		RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared OS:40	Analyzed	
Analyte Gasoline Range Organics	•	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 05/25/21 08:49	Analyzed 05/26/21 01:57	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U		mg/Kg	<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<b>Result</b> <49.9	Qualifier U	49.9		<u>D</u>	05/25/21 08:49	05/26/21 01:57	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<b>Result</b> <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/25/21 08:49	05/26/21 01:57	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result   <49.9   <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	05/25/21 08:49 05/25/21 08:49	05/26/21 01:57 05/26/21 01:57	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result   <49.9   <49.9   <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 08:49 05/25/21 08:49 05/25/21 08:49	05/26/21 01:57 05/26/21 01:57 05/26/21 01:57	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 05/25/21 08:49	05/26/21 01:57 05/26/21 01:57 05/26/21 01:57 05/26/21 01:57	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH  Surrogate	Result   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   %Recovery	Qualifier U U U U	49.9 49.9 49.9 49.9 <b>Limits</b>	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 Prepared	05/26/21 01:57 05/26/21 01:57 05/26/21 01:57 05/26/21 01:57 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH  Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9  Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 <b>Prepared</b> 05/25/21 08:49	05/26/21 01:57 05/26/21 01:57 05/26/21 01:57 05/26/21 01:57 Analyzed 05/26/21 01:57	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9  Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 <b>Prepared</b> 05/25/21 08:49	05/26/21 01:57 05/26/21 01:57 05/26/21 01:57 05/26/21 01:57 Analyzed 05/26/21 01:57	Dil Fac

Client Sample ID: CS3-Surface

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 00:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/24/21 09:50	05/25/21 00:35	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/24/21 09:50	05/25/21 00:35	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 02:19	1

Eurofins Xenco, Carlsbad

2

Δ

6

8

10

12

14

Lab Sample ID: 890-716-5

Matrix: Solid

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

**Client Sample ID: CS3-Surface** 

Lab Sample ID: 890-716-5

Matrix: Solid

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 02:19	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 02:19	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 02:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			05/25/21 08:49	05/26/21 02:19	1
1-Chlorooctane o-Terphenyl	112 98		70 - 130 70 - 130			05/25/21 08:49 05/25/21 08:49	05/26/21 02:19 05/26/21 02:19	1
	98	Soluble						1
o-Terphenyl	98 omatography -	Soluble Qualifier		Unit	D			1 1 Dil Fac

Client Sample ID: CS3-1' Lab Sample ID: 890-716-6 Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 00:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			05/24/21 09:50	05/25/21 00:55	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/24/21 09:50	05/25/21 00:55	1
Method: 8015B NM - Diesel Ran Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier			<u>D</u>	<u> </u>		Dil Fac
Analyte Gasoline Range Organics	• • •	Qualifier	<b>RL</b> 49.9	Unit mg/Kg	<u>D</u>	Prepared 05/25/21 08:49	Analyzed 05/26/21 02:40	Dil Fac
Analyte	Result	Qualifier U			<u>D</u>	<u> </u>		1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/25/21 08:49	05/26/21 02:40	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/25/21 08:49	05/26/21 02:40	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result   <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	05/25/21 08:49 05/25/21 08:49	05/26/21 02:40 05/26/21 02:40	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	Result	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 08:49 05/25/21 08:49 05/25/21 08:49	05/26/21 02:40 05/26/21 02:40 05/26/21 02:40	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result   <49.9   <49.9   <49.9   <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 05/25/21 08:49	05/26/21 02:40 05/26/21 02:40 05/26/21 02:40 05/26/21 02:40	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 <b>Limits</b>	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 Prepared	05/26/21 02:40 05/26/21 02:40 05/26/21 02:40 05/26/21 02:40 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH  Surrogate 1-Chlorooctane	Result	Qualifier  U  U  U  Qualifier	49.9 49.9 49.9 49.9  Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 <b>Prepared</b> 05/25/21 08:49	05/26/21 02:40 05/26/21 02:40 05/26/21 02:40 05/26/21 02:40 Analyzed 05/26/21 02:40	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH  Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9 <49.9 <49.9 <49.9 <49.9 $**Recovery************************************$	Qualifier  U  U  U  Qualifier	49.9 49.9 49.9 49.9  Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 05/25/21 08:49 <b>Prepared</b> 05/25/21 08:49	05/26/21 02:40 05/26/21 02:40 05/26/21 02:40 05/26/21 02:40 Analyzed 05/26/21 02:40	1 1 1 1 Dil Fac

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS4-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-7

05/25/21 08:49

05/26/21 03:01

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 01:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85	-	70 - 130			05/24/21 09:50	05/25/21 01:16	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/24/21 09:50	05/25/21 01:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 U Gasoline Range Organics 50.0 mg/Kg 05/25/21 08:49 05/26/21 03:01 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 05/25/21 08:49 05/26/21 03:01 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/25/21 08:49 05/26/21 03:01 Total TPH 50.0 05/25/21 08:49 05/26/21 03:01 <50.0 U mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 123 70 - 130 05/25/21 08:49 05/26/21 03:01

	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			05/26/21 21:15	1

70 - 130

107

Client Sample ID: CS4-1' Lab Sample ID: 890-716-8 Date Collected: 05/21/21 00:00 Matrix: Solid

Date Received: 05/21/21 13:48

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/24/21 09:50	05/25/21 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			05/24/21 09:50	05/25/21 01:36	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/24/21 09:50	05/25/21 01:36	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 03:22	- 1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 03:22	1	
(GRO)-C6-C10									

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Client Sample ID: CS4-1'

Lab Sample ID: 890-716-8

Matrix: Solid

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 03:22	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 03:22	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 03:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			05/25/21 08:49	05/26/21 03:22	1
o-Terphenyl	94		70 - 130			05/25/21 08:49	05/26/21 03:22	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.21		4.97	mg/Kg			05/26/21 21:20	1

Client Sample ID: CS5-Surface

Lab Sample ID: 890-716-9

Matrix: Solid

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199 U	J	0.00199	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
Toluene	<0.00199 L	J	0.00199	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
Ethylbenzene	<0.00199 L	J	0.00199	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
m-Xylene & p-Xylene	<0.00398 L	J	0.00398	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
o-Xylene	<0.00199 L	J	0.00199	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
Xylenes, Total	<0.00398 U	J	0.00398	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
Total BTEX	<0.00398 L	J	0.00398	mg/Kg		05/24/21 09:50	05/25/21 01:57	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93	70 - 130	05/24/21 09:50	05/25/21 01:57	1
1,4-Difluorobenzene (Surr)	96	70 - 130	05/24/21 09:50	05/25/21 01:57	1

Method. 00 13D MM - Dieser Kang	Je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:43	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:43	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:43	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			05/25/21 08:49	05/26/21 03:43	1
o-Terphenyl	101		70 - 130			05/25/21 08:49	05/26/21 03:43	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4 99 U	4 99	ma/Ka			05/26/21 21:25	1

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS5-1' Lab Sample ID: 890-716-10

Date Collected: 05/21/21 00:00 **Matrix: Solid** Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC) Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00201 0.00201 05/24/21 09:50 05/25/21 02:17 mg/Kg Toluene <0.00201 U 0.00201 mg/Kg 05/24/21 09:50 05/25/21 02:17 Ethylbenzene <0.00201 U 0.00201 mg/Kg 05/24/21 09:50 05/25/21 02:17 05/25/21 02:17 m-Xylene & p-Xylene <0.00402 U 0.00402 mg/Kg 05/24/21 09:50 05/25/21 02:17 o-Xylene < 0.00201 0.00201 mg/Kg 05/24/21 09:50 <0.00402 U 0.00402 05/24/21 09:50 05/25/21 02:17 Xylenes, Total mg/Kg Total BTEX <0.00402 U 0.00402 mg/Kg 05/24/21 09:50 05/25/21 02:17

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 05/24/21 09:50 95 70 - 130 05/25/21 02:17 1,4-Difluorobenzene (Surr) 100 70 - 130 05/24/21 09:50 05/25/21 02:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 50.0 mg/Kg 05/25/21 08:49 05/26/21 04:04 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 05/25/21 08:49 05/26/21 04:04 C10-C28) <50.0 U 50.0 05/25/21 08:49 05/26/21 04:04 Oll Range Organics (Over C28-C36) mg/Kg Total TPH 05/25/21 08:49 05/26/21 04:04 <50.0 U 50.0 mg/Kg

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 1-Chlorooctane 115 70 - 130 05/25/21 08:49 05/26/21 04:04 o-Terphenyl 101 70 - 130 05/25/21 08:49 05/26/21 04:04

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL

Unit D Prepared Analyzed Dil Fac Chloride 6.56 4.97 mg/Kg 05/26/21 21:30

Client Sample ID: CS6-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-11 **Matrix: Solid** 

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier Analyte RL Unit Prepared Analyzed Dil Fac Benzene < 0.00200 U 0.00200 05/24/21 09:50 05/25/21 03:39 mg/Kg Toluene <0.00200 U 0.00200 05/24/21 09:50 05/25/21 03:39 mg/Kg Ethylbenzene <0.00200 0.00200 05/24/21 09:50 05/25/21 03:39 mg/Kg m-Xylene & p-Xylene <0.00401 U 0.00401 mg/Kg 05/24/21 09:50 05/25/21 03:39 o-Xylene <0.00200 U 0.00200 ma/Ka 05/24/21 09:50 05/25/21 03:39 Xylenes, Total <0.00401 U 0.00401 mg/Kg 05/24/21 09:50 05/25/21 03:39 Total BTEX mg/Kg <0.00401 U 0.00401 05/24/21 09:50 05/25/21 03:39

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 93 70 - 130 05/24/21 09:50 05/25/21 03:39 1,4-Difluorobenzene (Surr) 95 70 - 130 05/24/21 09:50 05/25/21 03:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL Unit Dil Fac Prepared Analyzed <49.8 U 49 8 05/25/21 08:49 05/26/21 04:46 Gasoline Range Organics mg/Kg

(GRO)-C6-C10

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

**Client Sample ID: CS6-Surface** 

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-11

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 04:46	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 04:46	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 08:49	05/26/21 04:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			05/25/21 08:49	05/26/21 04:46	1
o-Terphenyl	96		70 - 130			05/25/21 08:49	05/26/21 04:46	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			4.96	mg/Kg			05/26/21 22:09	

Client Sample ID: CS6-1' Lab Sample ID: 890-716-12

RL

0.00199

Unit

mg/Kg

Result Qualifier

<0.00199 U

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte

Benzene

Method: 8021B - Volatile Organic Compounds (GC)

Analyzed

05/25/21 03:59

Prepared

05/24/21 09:50

Matrix: Solid

Dil Fac

Chloride	<5.04	U	5.04	mg/Kg			05/26/21 22:24	•
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
o-Terphenyl	96		70 - 130			05/25/21 08:49	05/26/21 05:08	
1-Chlorooctane	114		70 - 130			05/25/21 08:49	05/26/21 05:08	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:08	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:08	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:08	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:08	
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang								
1,4-Difluorobenzene (Surr)	96		70 - 130			05/24/21 09:50	05/25/21 03:59	
4-Bromofluorobenzene (Surr)	93		70 - 130			05/24/21 09:50	05/25/21 03:59	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 03:59	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 03:59	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 03:59	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 03:59	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 03:59	
Toluene	< 0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 03:59	

Client: EOR/Ridgeway Arizona Oil Corp

Project/Site: Mizar 11 Fed Com 14

Lab Sample ID: 890-716-13

Matrix: Solid

Job ID: 890-716-1

#### **Client Sample ID: CS7-Surface**

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/24/21 09:50	05/25/21 04:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/24/21 09:50	05/25/21 04:20	1
1,4-Difluorobenzene (Surr)	95		70 - 130			05/24/21 09:50	05/25/21 04:20	1

Method: 8015B NM - Diesel Rang	ethod: 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:29	1			
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:29	1			
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:29	1			
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:29	1			
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac			
1-Chlorooctane	104		70 - 130			05/25/21 08:49	05/26/21 05:29	1			

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.02	U	5.02	mg/Kg			05/26/21 22:29	1	

70 - 130

90

<49.9 U

Lab Sample ID: 890-716-14 Client Sample ID: CS7-1' Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/24/21 09:50	05/25/21 04:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 04:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/24/21 09:50	05/25/21 04:40	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/24/21 09:50	05/25/21 04:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			05/24/21 09:50	05/25/21 04:40	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/24/21 09:50	05/25/21 04:40	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Xenco, Carlsbad

05/26/21 05:50

05/25/21 08:49

49.9

mg/Kg

**Matrix: Solid** 

Gasoline Range Organics

(GRO)-C6-C10

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

**Matrix: Solid** 

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Client Sample ID: CS7-1'

.ab	Samp	le II	D:	89	U.	-71	6-	14	
							_		

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:50	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:50	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			05/25/21 08:49	05/26/21 05:50	1
o-Terphenyl	96		70 - 130			05/25/21 08:49	05/26/21 05:50	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-716-15

Client Sample ID: CS8-Surface Date Collected: 05/21/21 00:00

4.98

mg/Kg

<4.98 U

Date Received: 05/21/21 13:48

Chloride

**Matrix: Solid** 

05/26/21 22:33

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Benzene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:00	
Toluene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:00	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:00	
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/24/21 09:50	05/25/21 05:00	
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:00	
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/24/21 09:50	05/25/21 05:00	
Total BTEX	<0.00404	U	0.00404	mg/Kg		05/24/21 09:50	05/25/21 05:00	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4 Dun man fluor male a man a con (Occurs)			70 400			05/04/04 00:50	05/05/04 05:00	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94	70 - 130	05/24/21 09:50	05/25/21 05:00	1
1,4-Difluorobenzene (Surr)	97	70 - 130	05/24/21 09:50	05/25/21 05:00	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 06:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 06:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 06:11	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 06:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130			05/25/21 08:49	05/26/21 06:11	1
o-Terphenyl	113		70 - 130			05/25/21 08:49	05/26/21 06:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	<4.99 U	4.99	mg/Kg			05/26/21 22:38	1

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS8-1' Lab Sample ID: 890-716-16 Date Collected: 05/21/21 00:00 Matrix: Solid

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		05/24/21 09:50	05/25/21 05:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/24/21 09:50	05/25/21 05:21	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/24/21 09:50	05/25/21 05:21	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 06:32	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	11	50.0	ma/Ka		05/25/21 08:49	05/26/21 06:32	1

1-Chlorooctane	112		70 - 130		05/25/21 08:49	05/26/21 06:32	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg	05/25/21 08:49	05/26/21 06:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/25/21 08:49	05/26/21 06:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	05/25/21 08:49	05/26/21 06:32	1
(GRO)-C6-C10				3 3			
Gasoline Range Organics	<50.0	U	50.0	mg/Kg	05/25/21 08:49	05/26/21 06:32	1

o-Terphenyl	97		70 - 130			05/25/21 08:49	05/26/21 06:32	1
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/26/21 22:53	1

Client Sample ID: CS9-urface Lab Sample ID: 890-716-17 Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		05/24/21 09:50	05/25/21 05:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			05/24/21 09:50	05/25/21 05:41	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/24/21 09:50	05/25/21 05:41	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 06:53	1

Eurofins Xenco, Carlsbad

**Matrix: Solid** 

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Client Sample ID: CS9-urface Lab Sample ID: 890-716-17 Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 06:53	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 06:53	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 06:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			05/25/21 08:49	05/26/21 06:53	1
o-Terphenyl	100		70 - 130			05/25/21 08:49	05/26/21 06:53	1

Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed 5.00 05/26/21 22:58 Chloride <5.00 U mg/Kg

Client Sample ID: CS9-1' Lab Sample ID: 890-716-18 Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:02	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/24/21 09:50	05/25/21 06:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:02	1
Xylenes, Total	< 0.00397	U	0.00397	mg/Kg		05/24/21 09:50	05/25/21 06:02	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/24/21 09:50	05/25/21 06:02	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	70 - 130	05/24/21 09:50	05/25/21 06:02	1
1,4-Difluorobenzene (Surr)	98	70 - 130	05/24/21 09:50	05/25/21 06:02	1

1,4-Difluorobenzene (Surr)	98		70 - 130			05/24/21 09:50	05/25/21 06:02	1
Method: 8015B NM - Diesel Range	Organics (DI	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:14	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg	05/25/21 08:49	05/26/21 07:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/25/21 08:49	05/26/21 07:14	1
C10-C28)							
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg	05/25/21 08:49	05/26/21 07:14	1
(GRO)-C6-C10							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	05/25/21 08:49	05/26/21 07:14	1
o-Terphenyl	96		70 - 130	05/25/21 08:49	05/26/21 07:14	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/26/21 23:03	1

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Client Sample ID: CS10-Surface

Lab Sample ID: 890-716-19 Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48
_
Mothod: 8021B - Volatilo Organic Compounds

Method: 8021B - Volatile Orga	nic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/24/21 09:50	05/25/21 06:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			05/24/21 09:50	05/25/21 06:22	1
1,4-Difluorobenzene (Surr)	96		70 - 130			05/24/21 09:50	05/25/21 06:22	1

Method: 8015B	NM - Diesel	Range Orga	nics (I	DRO) ((	GC)

ı	Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 07:36	1
	(GRO)-C6-C10								
	Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 07:36	1
	C10-C28)								
	OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 07:36	1
	Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 07:36	1
١									
	Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Juniogato	70110001019	Quanno		rreparea	rinaryzou	D uo
1-Chlorooctane	113		70 - 130	05/25/21 08:49	05/26/21 07:36	1
o-Terphenyl	97		70 - 130	05/25/21 08:49	05/26/21 07:36	1

Method: 300.0 - Anions,	Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			05/26/21 23:08	1

Client Sample ID: CS10-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-20

**Matrix: Solid** 

#### Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 06:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 06:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 06:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 06:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 06:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 06:43	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/25/21 06:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/24/21 09:50	05/25/21 06:43	1

Method: 8015B NM - Diesel Range Org	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mothod: 9015P NM Diocal Panga Org	anios (DBO) (GC)						
1,4-Difluorobenzene (Surr)	101	70 - 130			05/24/21 09:50	05/25/21 06:43	1

50.0

mg/Kg

<50.0 U

(GRO)-C6-C10

Gasoline Range Organics

Eurofins Xenco, Carlsbad

05/26/21 07:57

05/25/21 08:49

Job ID: 890-716-1

Unit

Prepared

D

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS10-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-20

Analyzed

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:57	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:57	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			05/25/21 08:49	05/26/21 07:57	1
o-Terphenyl	99		70 - 130			05/25/21 08:49	05/26/21 07:57	1

<4.95 U 4.95 05/26/21 23:13 Chloride mg/Kg Client Sample ID: CS11-Surface Lab Sample ID: 890-716-21

RL

Result Qualifier

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:12	1
Toluene	<0.00198	U F1	0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:12	1
Ethylbenzene	<0.00198	U F1	0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:12	1
m-Xylene & p-Xylene	<0.00397	U F1	0.00397	mg/Kg		05/24/21 09:37	05/24/21 23:12	1
o-Xylene	<0.00198	U F1	0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:12	1
Xylenes, Total	< 0.00397	U F1	0.00397	mg/Kg		05/24/21 09:37	05/24/21 23:12	1
Total BTEX	<0.00397	U F1	0.00397	mg/Kg		05/24/21 09:37	05/24/21 23:12	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	05/24/21 09:37	05/24/21 23:12	1
1,4-Difluorobenzene (Surr)	112	70 - 130	05/24/21 09:37	05/24/21 23:12	1

Method: 8015B	NM - Diesel	Range	<b>Organics</b>	(DRO)	(GC)

moundar of 102 mm Broods stang	,	, (00)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 00:12	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 00:12	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 00:12	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 00:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			05/25/21 09:04	05/26/21 00:12	1
o-Terphenyl	89		70 - 130			05/25/21 09:04	05/26/21 00:12	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95 U	4 95	ma/Ka			05/26/21 23:18	1

Eurofins Xenco, Carlsbad

Dil Fac

**Matrix: Solid** 

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Job ID: 890-716-1

700 ID. 000 7 TO T

Client Sample ID: CS11-1'

Lab Sample ID: 890-716-22

Matrix: Solid

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 09:37	05/24/21 23:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			05/24/21 09:37	05/24/21 23:32	1
1,4-Difluorobenzene (Surr)	139	S1+	70 - 130			05/24/21 09:37	05/24/21 23:32	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:15	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:15	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:15	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			05/25/21 09:04	05/26/21 01:15	1
o-Terphenyl	85		70 - 130			05/25/21 09:04	05/26/21 01:15	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			05/26/21 23:32	1

Client Sample ID: CS12-Surface

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00353	В	0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:53	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:53	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/24/21 09:37	05/24/21 23:53	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/24/21 23:53	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/24/21 09:37	05/24/21 23:53	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/24/21 09:37	05/24/21 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/24/21 09:37	05/24/21 23:53	1
1,4-Difluorobenzene (Surr)	107		70 - 130			05/24/21 09:37	05/24/21 23:53	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:37	1

Eurofins Xenco, Carlsbad

3

5

7

9

10

12

14

\_

Lab Sample ID: 890-716-23 Matrix: Solid

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS12-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-23

Matrix: Solid

Job ID: 890-716-1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:37	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:37	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			05/25/21 09:04	05/26/21 01:37	1
o-Terphenyl	80		70 - 130			05/25/21 09:04	05/26/21 01:37	1

Result Qualifier RL Unit D Prepared Dil Fac Analyte Analyzed 5.05 05/26/21 23:37 Chloride 5.39 mg/Kg Lab Sample ID: 890-716-24

Client Sample ID: CS12-1'

onent oumple ib. ooil i					Lub Gui	iipic ib. ooo	7 10 24	
Date Collected: 05/21/21 00:00						Mat	rix: Solid	
Date Received: 05/21/21 13:48								
Method: 8021B - Volatile Organ	nic Compounds (GC)							Ī
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
Toluene	<0.00198 U	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
Ethylbenzene	<0.00198 U	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
m-Xylene & p-Xylene	<0.00396 U	U	0.00396	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
o-Xylene	<0.00198 U	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
Xylenes, Total	<0.00396 U	U	0.00396	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
Total BTEX	<0.00396 \	U	0.00396	mg/Kg		05/24/21 09:37	05/25/21 00:14	1

Surrogate	%Recovery Qualifi	er Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107	70 - 130	05/24/21 09:37	05/25/21 00:14	1
1,4-Difluorobenzene (Surr)	115	70 - 130	05/24/21 09:37	05/25/21 00:14	1

Method: 8015B NM	- Diesel Range Organics	(DRO) (GC)

Method. 60 130 MM - Diesei Kang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 01:57	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 01:57	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 01:57	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 01:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			05/25/21 09:04	05/26/21 01:57	1
o-Terphenyl	102		70 - 130			05/25/21 09:04	05/26/21 01:57	1

Method: 300.0 - Anions, Ion Chrom	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.73	4.97	mg/Kg			05/26/21 23:52	1

Client: EOR/Ridgeway Arizona Oil Corp

Client Sample ID: CS13-Surface

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Lab Sample ID: 890-716-25

Matrix: Solid

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/24/21 09:37	05/25/21 00:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			05/24/21 09:37	05/25/21 00:34	1
1,4-Difluorobenzene (Surr)	114		70 - 130			05/24/21 09:37	05/25/21 00:34	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 02:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 02:19	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 02:19	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 02:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/25/21 09:04	05/26/21 02:19	1
o-Terphenyl	91		70 - 130			05/25/21 09:04	05/26/21 02:19	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			05/26/21 23:57	1

Client Sample ID: CS13-1'

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:37	05/25/21 00:55	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:37	05/25/21 00:55	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:37	05/25/21 00:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/24/21 09:37	05/25/21 00:55	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:37	05/25/21 00:55	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/24/21 09:37	05/25/21 00:55	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		05/24/21 09:37	05/25/21 00:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			05/24/21 09:37	05/25/21 00:55	1
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130			05/24/21 09:37	05/25/21 00:55	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 02:40	1

Eurofins Xenco, Carlsbad

2

Δ

6

8

10

12

13

Job ID: 890-716-1

05/24/21 09:37

05/25/21 01:16

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS13-1'

Lab Sample ID: 890-716-26 Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

	3	, (, (-						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 02:40	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 02:40	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 02:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

	Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
	1-Chlorooctane	103		70 - 130	08	5/25/21 09:04	05/26/21 02:40	1
	o-Terphenyl	101		70 - 130	05	5/25/21 09:04	05/26/21 02:40	1
Ì								

Method: 300.0 - Anions, Ion Chron	natography - S	Soluble						
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98 l	U	4.98	mg/Kg			05/27/21 00:02	1

Client Sample ID: CS14-Surface

Lab Sample ID: 890-716-27 Date Collected: 05/21/21 00:00 Matrix: Solid

Date Received: 05/21/21 13:48

Total BTEX

Method: 8021B - Volatile Organic C	compounds	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 01:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 01:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 01:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/21 09:37	05/25/21 01:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:37	05/25/21 01:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/21 09:37	05/25/21 01:16	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		70 - 130	05/24/21 09:37	05/25/21 01:16	1
1,4-Difluorobenzene (Surr)	138 S1+	70 - 130	05/24/21 09:37	05/25/21 01:16	1

0.00398

mg/Kg

<0.00398 U

Method. 00 13D MM - Dieser Kang	Je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:01	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:01	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:01	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			05/25/21 09:04	05/26/21 03:01	1
o-Terphenyl	81		70 - 130			05/25/21 09:04	05/26/21 03:01	1

Method: 300.0 - Anions, Ion Chrom							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.98	5.00	mg/Kg			05/27/21 00:07	1

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Lab Sample ID: 890-716-28

Matrix: Solid

Client Sample ID: CS14-1' Date Collected: 05/21/21 00:00

|--|

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/24/21 09:37	05/25/21 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			05/24/21 09:37	05/25/21 01:36	1
1,4-Difluorobenzene (Surr)	110		70 - 130			05/24/21 09:37	05/25/21 01:36	1
		RO) (GC)	70 - 130			05/24/21 09:37	05/25/21 01:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D			Unit	п			1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D	Qualifier	70 - 130  RL 49.9	Unit ma/Ka	<u>D</u>	05/24/21 09:37  Prepared 05/25/21 09:04	05/25/21 01:36  Analyzed  05/26/21 03:22	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier U	RL		<u>D</u>	Prepared	Analyzed	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	Prepared 05/25/21 09:04	<b>Analyzed</b> 05/26/21 03:22	Dil Fac 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	Prepared 05/25/21 09:04	<b>Analyzed</b> 05/26/21 03:22	1 Dil Fac 1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9	Qualifier U U U	RL 49.9	mg/Kg	<u>D</u>	Prepared 05/25/21 09:04 05/25/21 09:04	Analyzed 05/26/21 03:22 05/26/21 03:22	Dil Fac 1 1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	ge Organics (D) Result <49.9 <49.9	Qualifier U U U U	RL 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u> </u>	Prepared 05/25/21 09:04 05/25/21 09:04 05/25/21 09:04	Analyzed 05/26/21 03:22 05/26/21 03:22 05/26/21 03:22	1 Dil Fac 1 1 1 1 Dil Fac
1,4-Difluorobenzene (Surr)  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH  Surrogate 1-Chlorooctane	ge Organics (D) Result <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	RL 49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 05/25/21 09:04	Analyzed 05/26/21 03:22 05/26/21 03:22 05/26/21 03:22 05/26/21 03:22	1 1

Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		5.00	mg/Kg			05/27/21 00:11	1

Client Sample ID: CS15-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab San	nple ID:	890-716	-29
---------	----------	---------	-----

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/24/21 09:37	05/25/21 01:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			05/24/21 09:37	05/25/21 01:57	1
1.4-Difluorobenzene (Surr)	123		70 - 130			05/24/21 09:37	05/25/21 01:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier

Analyte Dil Fac RL Unit Prepared Analyzed <50.0 U 50.0 05/25/21 09:04 05/26/21 03:43 Gasoline Range Organics mg/Kg

(GRO)-C6-C10

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Lab Sample ID: 890-716-29 Client Sample ID: CS15-Surface Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

.ab	Sample	; וטו	090-7	10-29
			Matrix	: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:43	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			05/25/21 09:04	05/26/21 03:43	1
o-Terphenyl	86		70 - 130			05/25/21 09:04	05/26/21 03:43	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Method: 300.0 - Anions, Ion Chr Analyte	0	Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: CS15-1' Lab Sample ID: 890-716-30

Date Collected: 05/21/21 00:00 Matrix: Solid

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 02:18	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 02:18	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 02:18	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/24/21 09:37	05/25/21 02:18	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 02:18	1
Xylenes, Total	< 0.00397	U	0.00397	mg/Kg		05/24/21 09:37	05/25/21 02:18	1
Total BTEX	< 0.00397	U	0.00397	mg/Kg		05/24/21 09:37	05/25/21 02:18	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119	70 - 130	05/24/21 09:37	05/25/21 02:18	1
1,4-Difluorobenzene (Surr)	121	70 - 130	05/24/21 09:37	05/25/21 02:18	1

Method: 8015B NM - Diesel Rar	nge Organics (DRO) (GC)	
Analyto	Popult Qualifier	DI

mothod: ou lob itm. Blood Italig	je Organios (B	110, (00)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 04:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 04:04	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 04:04	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 04:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			05/25/21 09:04	05/26/21 04:04	1
o-Terphenyl	80		70 - 130			05/25/21 09:04	05/26/21 04:04	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.21	5.05	ma/Ka			05/27/21 00:21	

Client: EOR/Ridgeway Arizona Oil Corp

Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS16-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-31

05/25/21 09:04

05/26/21 04:46

Matrix: Solid

Job ID: 890-716-1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/25/21 08:50	05/25/21 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92	-	70 - 130			05/25/21 08:50	05/25/21 16:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/25/21 08:50	05/25/21 16:59	1

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <49.8 U 49.8 mg/Kg 05/25/21 09:04 05/26/21 04:46 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 49.8 mg/Kg 05/25/21 09:04 05/26/21 04:46 C10-C28) Oll Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 05/25/21 09:04 05/26/21 04:46 Total TPH 05/25/21 09:04 05/26/21 04:46 <49.8 U 49.8 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 80 70 - 130 05/25/21 09:04 05/26/21 04:46

Method: 300.0 - Anions, Ion Chrom	natography - S	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96	mg/Kg			05/27/21 01:00	1

70 - 130

75

Client Sample ID: CS16-1' Lab Sample ID: 890-716-32 Date Collected: 05/21/21 00:00 Matrix: Solid

Date Received: 05/21/21 13:48

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/25/21 08:50	05/25/21 17:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/25/21 08:50	05/25/21 17:19	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/25/21 08:50	05/25/21 17:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/25/21 08:50	05/25/21 17:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/25/21 08:50	05/25/21 17:19	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 06:05	1

Eurofins Xenco, Carlsbad

4-Bromofluorobenzene (Surr)	94
Surrogate	%Recovery
Total BTEX	<0.00399
Xylenes, Total	<0.00399
o-Xylene	<0.00200
m-xylene & p-xylene	<0.00399

(GRO)-C6-C10

Released to Imaging: 2/2/2023 8:09:56 AM

Job ID: 890-716-1

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS16-1'

Lab Sample ID: 890-716-32

Date Collected: 05/21/21 00:00 Matrix: Solid Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 06:05	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 06:05	1
Total TPH	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 06:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			05/26/21 14:55	05/27/21 06:05	1
o-Terphenyl	80		70 - 130			05/26/21 14:55	05/27/21 06:05	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: CS17-Surface Lab Sample ID: 890-716-33

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 05/25/21 08:50 05/25/21 17:40 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 05/25/21 08:50 05/25/21 17:40 mg/Kg Ethylbenzene <0.00200 U 0.00200 05/25/21 08:50 05/25/21 17:40 m-Xylene & p-Xylene <0.00399 U 0.00399 mg/Kg 05/25/21 08:50 05/25/21 17:40 o-Xylene <0.00200 U 0.00200 mg/Kg 05/25/21 08:50 05/25/21 17:40 05/25/21 08:50 Xylenes, Total <0.00399 U 0.00399 mg/Kg 05/25/21 17:40 Total BTEX <0.00399 U 0.00399 05/25/21 08:50 05/25/21 17:40 mg/Kg

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93	70 - 130	05/25/21 08:50	05/25/21 17:40	1
1,4-Difluorobenzene (Surr)	99	70 - 130	05/25/21 08:50	05/25/21 17:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:29	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:29	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:29	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			05/25/21 09:04	05/26/21 05:29	1
o-Terphenvl	102		70 - 130			05/25/21 09:04	05/26/21 05:29	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.27	5.00	mg/Kg			05/27/21 01:20	1

Eurofins Xenco, Carlsbad

Matrix: Solid

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Lab Sample ID: 890-716-34

Matrix: Solid

Client Sample ID: CS17-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 18:00	
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 18:00	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 18:00	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 18:00	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 18:00	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 18:00	
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 18:00	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	92		70 - 130			05/25/21 08:50	05/25/21 18:00	
1,4-Difluorobenzene (Surr)	99		70 - 130			05/25/21 08:50	05/25/21 18:00	
Method: 8015B NM - Diesel Ranç Analyte		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Gasoline Range Organics		Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared 05/25/21 09:04	Analyzed 05/26/21 05:50	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U	49.9	mg/Kg	<u>D</u>	05/25/21 09:04	05/26/21 05:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>	<u>.</u>		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		Qualifier U	49.9	mg/Kg	<u>D</u>	05/25/21 09:04	05/26/21 05:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result   <49.9   <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	05/25/21 09:04 05/25/21 09:04	05/26/21 05:50 05/26/21 05:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <49	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 09:04 05/25/21 09:04 05/25/21 09:04	05/26/21 05:50 05/26/21 05:50 05/26/21 05:50 05/26/21 05:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result   <49.9   <49.9   <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 05/25/21 09:04	05/26/21 05:50 05/26/21 05:50 05/26/21 05:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH  Surrogate	Result   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80.0   <80	Qualifier U U U U	49.9 49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u> </u>	05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 <b>Prepared</b>	05/26/21 05:50 05/26/21 05:50 05/26/21 05:50 05/26/21 05:50 Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9  Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 Prepared 05/25/21 09:04	05/26/21 05:50 05/26/21 05:50 05/26/21 05:50 05/26/21 05:50 Analyzed 05/26/21 05:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH  Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9  Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 Prepared 05/25/21 09:04	05/26/21 05:50 05/26/21 05:50 05/26/21 05:50 05/26/21 05:50 Analyzed 05/26/21 05:50	Dil Fa

Da

Da

lient Sample ID: CS18-Surfa	ce			Lab Sar	nple ID: 890	-716-35
ate Collected: 05/21/21 00:00					Matı	rix: Solid
ate Received: 05/21/21 13:48						
Method: 8021B - Volatile Organic (	Compounds (GC)					
Amaluta	Desuit Ouslifies	DI.	11:4	 Duamanad	Amalumad	Dil Faa

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			05/25/21 08:50	05/25/21 18:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/25/21 08:50	05/25/21 18:20	1
- Method: 8015B NM - Diesel R	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:11	1

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS18-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-35

Matrix: Solid

Job ID: 890-716-1

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC) (C	ontinued)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:11	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:11	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			05/25/21 09:04	05/26/21 06:11	1
o-Terphenyl	84		70 - 130			05/25/21 09:04	05/26/21 06:11	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			05/27/21 01:30	1

Client Sample ID: CS18-1' Lab Sample ID: 890-716-36

Date Collected: 05/21/21 00:0	0						Matri	x: Solid
Date Received: 05/21/21 13:48	8							
Method: 8021B - Volatile Org	ganic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/25/21 08:50	05/25/21 18:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/25/21 08:50	05/25/21 18:41	1
Ethylhonzono	<0.00201	11	0.00201	ma/Ka		05/25/24 00:50	05/05/04 10:41	1

Allalyte	itesuit	Qualifier	IXL	Oilit	 riepaieu	Allalyzeu	Diriac
Benzene	<0.00201	U	0.00201	mg/Kg	 05/25/21 08:50	05/25/21 18:41	1
Toluene	<0.00201	U	0.00201	mg/Kg	05/25/21 08:50	05/25/21 18:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	05/25/21 08:50	05/25/21 18:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	05/25/21 08:50	05/25/21 18:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg	05/25/21 08:50	05/25/21 18:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	05/25/21 08:50	05/25/21 18:41	1
Total BTEX	<0.00402	U	0.00402	mg/Kg	05/25/21 08:50	05/25/21 18:41	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91	70 - 130	05/25/21 08:50	05/25/21 18:41	1
1,4-Difluorobenzene (Surr)	99	70 - 130	05/25/21 08:50	05/25/21 18:41	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)	Method: 801	5B NM - Diese	I Range Organics	(DRO) (GC)
---	-------------	---------------	------------------	------------

Method: 8015B NM - Diesei Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:32	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:32	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:32	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			05/25/21 09:04	05/26/21 06:32	1
o-Terphenyl	82		70 - 130			05/25/21 09:04	05/26/21 06:32	1

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05	mg/Kg			05/27/21 01:44	1

Client: EOR/Ridgeway Arizona Oil Corp

Client Sample ID: CS19-Surface

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Lab Sample ID: 890-716-37

05/25/21 09:04

05/26/21 06:53

Matrix: Solid

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/25/21 08:50	05/25/21 19:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/25/21 08:50	05/25/21 19:01	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 06:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 06:53	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 06:53	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 06:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			05/25/21 09:04	05/26/21 06:53	1

Method: 300.0 - Anions, Ion Chroi	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			05/27/21 01:49	1

70 - 130

Client Sample ID: CS19-1' Lab Sample ID: 890-716-38 Date Collected: 05/21/21 00:00 **Matrix: Solid** 

Date Received: 05/21/21 13:48

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 19:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 19:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 19:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 19:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/25/21 08:50	05/25/21 19:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 19:22	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/25/21 08:50	05/25/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/25/21 08:50	05/25/21 19:22	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/25/21 08:50	05/25/21 19:22	1
Method: 8015B NM - Diesel Ra	ange Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:14	1

Job ID: 890-716-1

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS19-1'

Lab Sample ID: 890-716-38

Date Collected: 05/21/21 00:00 Matrix: Solid Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:14	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:14	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130			05/25/21 09:04	05/26/21 07:14	1
o-Terphenyl	56	S1-	70 - 130			05/25/21 09:04	05/26/21 07:14	1
-	omatography -	Soluble						
Method: 300.0 - Anions, Ion Chr	omatograpmy -							
Method: 300.0 - Anions, Ion Chr. Analyte	0	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: CS20-Surface Lab Sample ID: 890-716-39

Date Collected: 05/21/21 00:00 **Matrix: Solid** Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 19:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 19:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 19:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 19:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 19:42	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 19:42	
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 19:42	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			05/25/21 08:50	05/25/21 19:42	
1,4-Difluorobenzene (Surr)	97		70 - 130			05/25/21 08:50	05/25/21 19:42	
Method: 8015B NM - Diesel Ranç Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	,	Qualifier	RL 49.9	Unitmg/Kg	<u>D</u>	Prepared 05/25/21 09:04	Analyzed 05/26/21 07:36	Dil Fa
•	Result	Qualifier			<u>D</u>	<u> </u>		Dil Fa
Analyte Gasoline Range Organics	Result	Qualifier U			<u>D</u>	<u> </u>		
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/25/21 09:04	05/26/21 07:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/25/21 09:04	05/26/21 07:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	05/25/21 09:04 05/25/21 09:04	05/26/21 07:36 05/26/21 07:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	Result   <49.9   <49.9   <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 09:04 05/25/21 09:04 05/25/21 09:04	05/26/21 07:36 05/26/21 07:36 05/26/21 07:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 05/25/21 09:04	05/26/21 07:36 05/26/21 07:36 05/26/21 07:36 05/26/21 07:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result   <49.9   <49.9   <49.9   <49.9   <49.9   <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 Prepared	05/26/21 07:36 05/26/21 07:36 05/26/21 07:36 05/26/21 07:36 Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH  Surrogate 1-Chlorooctane	Result	Qualifier  U  U  U  Qualifier  S1-	49.9 49.9 49.9 49.9  Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u> </u>	05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 Prepared 05/25/21 09:04	05/26/21 07:36 05/26/21 07:36 05/26/21 07:36 05/26/21 07:36 Analyzed 05/26/21 07:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier  U  U  U  Qualifier  S1-	49.9 49.9 49.9 49.9  Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 05/25/21 09:04 Prepared 05/25/21 09:04	05/26/21 07:36 05/26/21 07:36 05/26/21 07:36 05/26/21 07:36 Analyzed 05/26/21 07:36	Dil Fac

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Lab Sample ID: 890-716-40

Matrix: Solid

Client Sample ID: CS20-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
Xylenes, Total	< 0.00397	U	0.00397	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/25/21 08:50	05/25/21 20:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/25/21 08:50	05/25/21 20:02	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/25/21 08:50	05/25/21 20:02	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:57	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:57	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:57	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			05/25/21 09:04	05/26/21 07:57	1
o-Terphenyl	83		70 - 130			05/25/21 09:04	05/26/21 07:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	<5.02	U	5.02	mg/Kg			05/27/21 02:04	1

Client Sample ID: CS21-Surface

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/25/21 10:23	05/25/21 22:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 06:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 06:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 06:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 06:54	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 06:54	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 06:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130			05/24/21 13:00	05/25/21 06:54	1
1,4-Difluorobenzene (Surr)	85		70 - 130			05/24/21 13:00	05/25/21 06:54	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 20:45	1

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS21-Surface

Lab Sample ID: 890-716-41

Matrix: Solid

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 20:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 20:45	1
Total TPH	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			05/24/21 16:09	05/25/21 20:45	1
o-Terphenyl	110		70 - 130			05/24/21 16:09	05/25/21 20:45	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Method: 300.0 - Anions, Ion Chr Analyte		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: CS21-1' Lab Sample ID: 890-716-42

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

114

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/21 10:23	05/25/21 22:45	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/24/21 13:00	05/25/21 07:15	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/24/21 13:00	05/25/21 07:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/24/21 13:00	05/25/21 07:15	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/24/21 13:00	05/25/21 07:15	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/24/21 13:00	05/25/21 07:15	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/24/21 13:00	05/25/21 07:15	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115	70 - 130	05/24/21 13:00	05/25/21 07:15	1
1,4-Difluorobenzene (Surr)	100	70 - 130	05/24/21 13:00	05/25/21 07:15	1

Method: 00 135 MM - Diesei Kang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:06	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:06	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:06	1
Total TPH	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			05/24/21 16:09	05/25/21 21:06	1

Method: 300.0 - Anions, Ion Chrom	atography - Soluble	)					
Analyte	Result Qualifie	r RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04 II	5.04	ma/Ka			05/27/21 02:23	

70 - 130

Eurofins Xenco, Carlsbad

o-Terphenyl

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Client Sample ID: CS22-Surface

Lab Sample ID: 890-716-43

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/25/21 10:23	05/25/21 23:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 07:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 07:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/24/21 13:00	05/25/21 07:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 07:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/24/21 13:00	05/25/21 07:35	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/24/21 13:00	05/25/21 07:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	-	70 - 130			05/24/21 13:00	05/25/21 07:35	1
1,4-Difluorobenzene (Surr)	89		70 - 130			05/24/21 13:00	05/25/21 07:35	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 21:28	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 21:28	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 21:28	1
Total TPH	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 21:28	1

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane 101 70 - 130 05/24/21 16:09 05/25/21 21:28 o-Terphenyl 98 70 - 130 05/24/21 16:09 05/25/21 21:28

Method: 300.0 - Anions, Ion Chromatography - Soluble Dil Fac Analyte Result Qualifier RLUnit D Prepared Analyzed Chloride 6.10 5.02 mg/Kg 05/27/21 02:28

Client Sample ID: CS22-1' Lab Sample ID: 890-716-44 Date Collected: 05/21/21 00:00 **Matrix: Solid** 

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/25/21 10:23	05/25/21 23:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/21 13:00	05/25/21 07:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/21 13:00	05/25/21 07:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/21 13:00	05/25/21 07:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/21 13:00	05/25/21 07:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/21 13:00	05/25/21 07:56	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/24/21 13:00	05/25/21 07:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			05/24/21 13:00	05/25/21 07:56	1
1,4-Difluorobenzene (Surr)	80		70 - 130			05/24/21 13:00	05/25/21 07:56	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:49	1

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Lab Sample ID: 890-716-44

Matrix: Solid

Client Sample ID: CS22-1' Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range	Organics (D	RO) (GC) (C	ontinued)
Analyte	Result	Qualifier	RL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:49	
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:49	
Total TPH	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:49	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	05/24/21 16:09	05/25/21 21:49	1
o-Terphenyl	91		70 - 130	05/24/21 16:09	05/25/21 21:49	1

Method: 300.0 - Anions, Ion Chror	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.38	4.96	mg/Kg			05/27/21 02:43	1

Client Sample ID: CS23-Surface

Lab Sample ID: 890-716-45 Date Collected: 05/21/21 00:00 Matrix: Solid

Date Received: 05/21/21 13:48

M	ethod: 8021B - Volatile Organic C	ompounds	(GC)						
An	nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Be	enzene	<0.00198	U	0.00198	mg/Kg		05/25/21 10:23	05/26/21 00:02	1
То	luene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
Etl	hylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
m-	-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
0-2	Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
Ху	rlenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
То	tal BTEX	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
1									

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115	70 - 130	05/24/21 13:00	05/25/21 08:16	1
1,4-Difluorobenzene (Surr)	101	70 - 130	05/24/21 13:00	05/25/21 08:16	1

Method: 8015B NM - Diesei Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 22:11	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 22:11	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 22:11	1
Total TPH	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 22:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			05/24/21 16:09	05/25/21 22:11	1
o-Terphenyl	107		70 - 130			05/24/21 16:09	05/25/21 22:11	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<4.95 U	4 95	ma/Ka			05/27/21 02:48	1	

Eurofins Xenco, Carlsbad

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Lab Sample ID: 890-716-46

Matrix: Solid

Client Sample ID: CS23-1'
Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00197	U	0.00197	mg/Kg		05/25/21 10:23	05/26/21 00:27	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/24/21 13:00	05/25/21 08:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/24/21 13:00	05/25/21 08:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/24/21 13:00	05/25/21 08:36	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/24/21 13:00	05/25/21 08:36	1
Xylenes, Total	< 0.00403	U	0.00403	mg/Kg		05/24/21 13:00	05/25/21 08:36	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		05/24/21 13:00	05/25/21 08:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			05/24/21 13:00	05/25/21 08:36	1
1,4-Difluorobenzene (Surr)	90		70 - 130			05/24/21 13:00	05/25/21 08:36	1
Method: 8015B NM - Diesel Ran		RO) (GC)	70 - 700			00/24/21 10:00	00,20,27,00.00	,
		RO) (GC)	70 - 700			00/24/21 10:00	00,20,27,00.00	
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D	Qualifier	RL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier		<mark>Unit</mark> mg/Kg	<u>D</u>			Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D	Qualifier U	RL		<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D Result <50.0	Qualifier U	RL 50.0	mg/Kg	<u>D</u>	Prepared 05/24/21 16:09	<b>Analyzed</b> 05/25/21 22:32	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <50.0	Qualifier U	RL 50.0	mg/Kg	<u>D</u>	Prepared 05/24/21 16:09	<b>Analyzed</b> 05/25/21 22:32	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	Qualifier U U	<b>RL</b> 50.0	mg/Kg	<u>D</u>	Prepared 05/24/21 16:09 05/24/21 16:09	Analyzed 05/25/21 22:32 05/25/21 22:32	Dil Fac 1 1
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D) Result <50.0 <50.0 <50.0	Qualifier U U U U	RL 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/24/21 16:09 05/24/21 16:09 05/24/21 16:09	Analyzed 05/25/21 22:32 05/25/21 22:32 05/25/21 22:32	Dil Fac 1 1 1
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	ge Organics (D) Result <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	RL 50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/24/21 16:09 05/24/21 16:09 05/24/21 16:09 05/24/21 16:09	Analyzed 05/25/21 22:32 05/25/21 22:32 05/25/21 22:32 05/25/21 22:32	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH  Surrogate	ge Organics (D)  Result  <50.0  <50.0  <50.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0  <80.0	Qualifier U U U U	RL 50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/24/21 16:09 05/24/21 16:09 05/24/21 16:09 05/24/21 16:09 Prepared	Analyzed 05/25/21 22:32 05/25/21 22:32 05/25/21 22:32 05/25/21 22:32 Analyzed	Dil Fac  1  1  1  Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH  Surrogate 1-Chlorooctane	ge Organics (D)  Result  <50.0  <50.0  <50.0  <50.0  <50.0   70.0  70.0  70.0  70.0  70.0  70.0  70.0	Qualifier  U  U  U  Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/24/21 16:09 05/24/21 16:09 05/24/21 16:09 05/24/21 16:09 Prepared 05/24/21 16:09	Analyzed 05/25/21 22:32 05/25/21 22:32 05/25/21 22:32 05/25/21 22:32  Analyzed 05/25/21 22:32	Dil Fac  1  1  1  1  Dil Fac  1

5.04

mg/Kg

5.44

05/27/21 02:53

Chloride

2

2

5

7

9

11

12

14

Client: EOR/Ridgeway Arizona Oil Corp Job ID: 890-716-1 Project/Site: Mizar 11 Fed Com 14

Method: 8021B - Volatile Organic Compounds (GC)

atrix: Solid				Prep Type: Total/NA
				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-756-A-11-G MS	Matrix Spike	110	94	
820-756-A-11-H MSD	Matrix Spike Duplicate	132 S1+	87	
880-2390-A-1-H MS	Matrix Spike	104	107	
880-2390-A-1-I MSD	Matrix Spike Duplicate	86	100	
890-715-A-11-E MS	Matrix Spike	89	102	
890-715-A-11-F MSD	Matrix Spike Duplicate	100	103	
890-716-1	CS1-Surface	91	98	
390-716-1 MS	CS1-Surface	96	99	
390-716-1 MSD	CS1-Surface	95	94	
390-716-2	CS1-1'	96	100	
390-716-3	CS2-Surface	90	97	
390-716-4	CS2-1'	89	94	
390-716-5	CS3-Surface	93	97	
390-716-6	CS3-1'	87	94	
390-716-7	CS4-Surface	85	100	
390-716-8	CS4-1'	84	94	
390-716-9	CS5-Surface	93	96	
390-716-10	CS5-1'	95	100	
390-716-11	CS6-Surface	93	95	
90-716-12	CS6-1'	93	96	
90-716-13	CS7-Surface	96	95	
90-716-14	CS7-1'	85	101	
90-716-15	CS8-Surface	94	97	
90-716-16	CS8-1'	92	97	
90-716-17	CS9-urface	84	97	
90-716-18	CS9-1'	90	98	
90-716-19	CS10-Surface	87	96	
390-716-20	CS10-1'	92	101	
390-716-21	CS11-Surface	99	112	
390-716-21 MS	CS11-Surface	100	126	
90-716-21 MSD	CS11-Surface	92	112	
90-716-22	CS11-1'	113	139 S1+	
90-716-23	CS12-Surface	105	107	
90-716-24	CS12-1'	107	115	
90-716-25	CS13-Surface	91	114	
90-716-26	CS13-1'	122	135 S1+	
90-716-27	CS14-Surface	113	138 S1+	
90-716-28	CS14-1'	109	110	
390-716-29	CS15-Surface	110	123	
90-716-30	CS15-1'	119	121	
90-716-31	CS16-Surface	92	101	
390-716-32	CS16-1'	94	97	
390-716-33	CS17-Surface	93	99	
390-716-34	CS17-1'	92	99	
390-716-35	CS18-Surface	97	101	
390-710-35 390-716-36	CS18-1'	91	99	
390-716-37	CS19-Surface	93	99	
	CS19-Surface CS19-1'		100	
390-716-38		92		

Client: EOR/Ridgeway Arizona Oil Corp Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Matrix: Solid** Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-716-40	CS20-1'	94	98	
390-716-41	CS21-Surface	149 S1+	85	
390-716-42	CS21-1'	115	100	
390-716-43	CS22-Surface	98	89	
390-716-44	CS22-1'	133 S1+	80	
390-716-45	CS23-Surface	115	101	
390-716-46	CS23-1'	137 S1+	90	
_CS 880-3389/1-A	Lab Control Sample	107	92	
LCS 880-3390/1-A	Lab Control Sample	95	120	
LCS 880-3392/1-A	Lab Control Sample	110	100	
CS 880-3445/1-A	Lab Control Sample	109	104	
_CS 880-3457/1-A	Lab Control Sample	98	98	
CSD 880-3389/2-A	Lab Control Sample Dup	99	88	
CSD 880-3390/2-A	Lab Control Sample Dup	90	111	
_CSD 880-3392/2-A	Lab Control Sample Dup	98	103	
_CSD 880-3445/2-A	Lab Control Sample Dup	102	104	
_CSD 880-3457/2-A	Lab Control Sample Dup	92	90	
MB 880-3334/5-A	Method Blank	84	98	
MB 880-3385/5-A	Method Blank	94	99	
MB 880-3388/8	Method Blank	107	93	
MB 880-3389/5-A	Method Blank	108	91	
MB 880-3390/5-A	Method Blank	98	92	
MB 880-3392/5-A	Method Blank	87	94	
MB 880-3445/5-A	Method Blank	86	96	
MB 880-3457/5-A	Method Blank	69 S1-	79	
MB 880-3460/8	Method Blank	69 S1-	81	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-2503-A-21-B MS	Matrix Spike	88	73	
880-2503-A-21-C MSD	Matrix Spike Duplicate	89	73	
890-715-A-1-E MS	Matrix Spike	105	94	
890-715-A-1-F MSD	Matrix Spike Duplicate	103	93	
890-716-1	CS1-Surface	104	91	
890-716-1 MS	CS1-Surface	90	70	
890-716-1 MSD	CS1-Surface	101	80	
890-716-2	CS1-1'	110	97	
890-716-3	CS2-Surface	116	102	
890-716-4	CS2-1'	115	100	
890-716-5	CS3-Surface	112	98	
890-716-6	CS3-1'	115	99	
890-716-7	CS4-Surface	123	107	
890-716-8	CS4-1'	113	94	

Client: EOR/Ridgeway Arizona Oil Corp Job ID: 890-716-1 Project/Site: Mizar 11 Fed Com 14

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid				Prep Type: Total/NA
				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-716-9	CS5-Surface	115	101	
890-716-10	CS5-1'	115	101	
890-716-11	CS6-Surface	112	96	
890-716-12	CS6-1'	114	96	
890-716-13	CS7-Surface	104	90	
890-716-14	CS7-1'	113	96	
890-716-15	CS8-Surface	134 S1+	113	
890-716-16	CS8-1'	112	97	
890-716-17	CS9-urface	115	100	
890-716-18	CS9-1'	112	96	
890-716-19	CS10-Surface	113	97	
890-716-20	CS10-1'	114	99	
890-716-21	CS11-Surface	93	89	
890-716-21 MS	CS11-Surface	83	70	
890-716-21 MSD	CS11-Surface	88	74	
890-716-22	CS11-1'	91	85	
890-716-23	CS12-Surface	86	80	
890-716-24	CS12-1'	108	102	
890-716-25	CS13-Surface	100	91	
890-716-26	CS13-1'	103	101	
890-716-27	CS14-Surface	87	81	
890-716-28	CS14-1'	94	89	
890-716-29	CS15-Surface	91	86	
890-716-30	CS15-1'	85	80	
890-716-31	CS16-Surface	80	75	
890-716-32	CS16-1'	95	80	
890-716-33	CS17-Surface	110	102	
890-716-34	CS17-1'	102	93	
890-716-35	CS17-1 CS18-Surface	91	84	
890-716-36	CS18-1'	87	82	
890-716-37	CS19-Surface	85	79	
890-716-38	CS19-1'	64 S1-	56 S1-	
890-716-39	CS20-Surface	75	67 S1-	
890-716-40	CS20-1'	91	83	
890-716-41	CS21-Surface	106	110	
890-716-42	CS21-1'	104	114	
890-716-43	CS22-Surface	101	98	
890-716-44	CS22-1'	92	91	
890-716-45	CS23-Surface	116	107	
890-716-46	CS23-1'	111	104	
LCS 880-3429/2-A	Lab Control Sample	110	107	
LCS 880-3444/2-A	Lab Control Sample	114	101	
LCS 880-3450/2-A	Lab Control Sample	103	95	
LCS 880-3539/2-A	Lab Control Sample	106	87	
LCSD 880-3429/3-A	Lab Control Sample Dup	115	106	
LCSD 880-3444/3-A	Lab Control Sample Dup	119	100	
LCSD 880-3450/3-A	Lab Control Sample Dup	106	97	
LCSD 880-3539/3-A	Lab Control Sample Dup	96	78	
MB 880-3429/1-A	Method Blank	101	107	
MB 880-3444/1-A	Method Blank	112	105	

Client: EOR/Ridgeway Arizona Oil Corp Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

OTPH = o-Terphenyl

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Matrix: Solid** Prep Type: Total/NA

				Percent Surroga
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
MB 880-3450/1-A	Method Blank	102	102	
MB 880-3539/1-A	Method Blank	93	86	
Surrogate Legend				
1CO = 1-Chlorooctane				

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3334/5-A **Matrix: Solid** 

**Analysis Batch: 3386** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

Prep Batch: 3334

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 08:30	05/24/21 12:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 08:30	05/24/21 12:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 08:30	05/24/21 12:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 08:30	05/24/21 12:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 08:30	05/24/21 12:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 08:30	05/24/21 12:01	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 08:30	05/24/21 12:01	1

MB MB

Surrogate	%Recovery Qual	ifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84	70 - 130	05/24/21 08:30	05/24/21 12:01	1
1,4-Difluorobenzene (Surr)	98	70 - 130	05/24/21 08:30	05/24/21 12:01	1

Lab Sample ID: MB 880-3385/5-A

**Matrix: Solid** 

**Analysis Batch: 3387** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

Prep Batch: 3385

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 08:38	05/24/21 11:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 08:38	05/24/21 11:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 08:38	05/24/21 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 08:38	05/24/21 11:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 08:38	05/24/21 11:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 08:38	05/24/21 11:49	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 08:38	05/24/21 11:49	1

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94	70 - 130	05/24/21 08:38	05/24/21 11:49	1
1,4-Difluorobenzene (Surr)	99	70 - 130	05/24/21 08:38	05/24/21 11:49	1

Lab Sample ID: MB 880-3388/8

**Matrix: Solid** 

**Analysis Batch: 3388** 

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			05/24/21 13:36	1
Toluene	<0.00200	U	0.00200	mg/Kg			05/24/21 13:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			05/24/21 13:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			05/24/21 13:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			05/24/21 13:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			05/24/21 13:36	1
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/24/21 13:36	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	_	05/24/21 13:36	1
1,4-Difluorobenzene (Surr)	93		70 - 130		05/24/21 13:36	1

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-3389/5-A

**Matrix: Solid** 

**Analysis Batch: 3388** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3389

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 01:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 01:12	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 01:12	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 13:00	05/25/21 01:12	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 01:12	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 13:00	05/25/21 01:12	•
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 13:00	05/25/21 01:12	

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05	5/24/21 13:00	05/25/21 01:12	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05	5/24/21 13:00	05/25/21 01:12	1

Lab Sample ID: LCS 880-3389/1-A

**Matrix: Solid** 

**Analysis Batch: 3388** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 3389

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08576		mg/Kg		86	70 - 130	
Toluene	0.100	0.1109		mg/Kg		111	70 - 130	
Ethylbenzene	0.100	0.1129		mg/Kg		113	70 - 130	
m-Xylene & p-Xylene	0.200	0.2336		mg/Kg		117	70 - 130	
o-Xylene	0.100	0.1165		mg/Kg		117	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1.4-Difluorobenzene (Surr)	92	70 - 130

Lab Sample ID: LCSD 880-3389/2-A

**Matrix: Solid** 

**Analysis Batch: 3388** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3389

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08076		mg/Kg		81	70 - 130	6	35
Toluene	0.100	0.1080		mg/Kg		108	70 - 130	3	35
Ethylbenzene	0.100	0.1103		mg/Kg		110	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2257		mg/Kg		113	70 - 130	3	35
o-Xylene	0.100	0.1098		mg/Kg		110	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 _ 130
1.4-Difluorobenzene (Surr)	88	70 - 130

Lab Sample ID: 820-756-A-11-G MS

**Matrix: Solid** 

**Analysis Batch: 3388** 

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3389

7 manyone Batonii eece										op Bato.	000
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00200	U F1	0.100	0.08179		mg/Kg		82	70 - 130		

Eurofins Xenco, Carlsbad

Page 42 of 92

#### **QC Sample Results**

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

#### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 820-756-A-11-G MS

**Matrix: Solid** 

**Analysis Batch: 3388** 

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3389

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00200	U	0.100	0.08622		mg/Kg		86	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.09371		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1810		mg/Kg		90	70 - 130	
o-Xylene	<0.00200	U	0.100	0.1066		mg/Kg		106	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 820-756-A-11-H MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

**Analysis Batch: 3388** 

Prep Type: Total/NA

Prep Batch: 3389

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0998	0.06302	F1	mg/Kg		63	70 - 130	26	35
Toluene	<0.00200	U	0.0998	0.08004		mg/Kg		80	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.0998	0.09836		mg/Kg		99	70 - 130	5	35
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1964		mg/Kg		98	70 - 130	8	35
o-Xylene	<0.00200	U	0.0998	0.1187		mg/Kg		119	70 - 130	11	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-3390/5-A

**Matrix: Solid** 

**Analysis Batch: 3387** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3390

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.002237		0.00200	mg/Kg		05/24/21 09:37	05/24/21 22:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/24/21 22:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/24/21 22:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 09:37	05/24/21 22:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:37	05/24/21 22:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 09:37	05/24/21 22:50	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 09:37	05/24/21 22:50	1

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/24/21 09:37	05/24/21 22:50	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/24/21 09:37	05/24/21 22:50	1

Lab Sample ID: LCS 880-3390/1-A

Matrix: Solid

**Analysis Batch: 3387** 

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 3390

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08903		mg/Kg		89	70 - 130	
Toluene	0.100	0.08744		mg/Kg		87	70 - 130	

Eurofins Xenco, Carlsbad

Page 43 of 92

#### QC Sample Results

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

#### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-3390/1-A

Lab Sample ID: LCSD 880-3390/2-A

**Matrix: Solid** 

**Analysis Batch: 3387** 

Client	Sample	ID:	Lab	Co	ntr	ol	Sar	nple
			D					1/81

Prep Type: Total/NA

Prep Batch: 3390

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	0.100	0.08653		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	0.200	0.1783		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.08970		mg/Kg		90	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3390

RPD

Spike LCSD LCSD %Rec. Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 0.100 0.08321 Benzene mg/Kg 83 70 - 130 7 35 Toluene 0.100 0.08729 87 70 - 130 35 mg/Kg Ethylbenzene 0.100 0.08469 mg/Kg 85 70 - 130 2 35 m-Xylene & p-Xylene 0.200 0.1699 85 70 - 130 35 mg/Kg 5 0.100 o-Xylene 0.08503 85 70 - 130 mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	90		70 - 130		
1,4-Difluorobenzene (Surr)	111		70 - 130		

Lab Sample ID: 890-716-21 MS

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 3387** 

**Analysis Batch: 3387** 

Client Sample ID: CS11-Surface

Prep Type: Total/NA Prep Batch: 3390

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F1	0.0996	0.05882	F1	mg/Kg		58	70 - 130	
Toluene	<0.00198	U F1	0.0996	0.03150	F1	mg/Kg		32	70 - 130	
Ethylbenzene	<0.00198	U F1	0.0996	0.04090	F1	mg/Kg		41	70 - 130	
m-Xylene & p-Xylene	<0.00397	U F1	0.199	0.07466	F1	mg/Kg		37	70 - 130	
o-Xylene	<0.00198	U F1	0.0996	0.05677	F1	mg/Kg		57	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	126	70 - 130

Lab Sample ID: 890-716-21 MSD Client Sample ID: CS11-Surface

**Matrix: Solid** 

**Analysis Batch: 3387** 

Prep Type: Total/NA

Prep Batch: 3390

,, c.c = a.c ccc.										p =	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U F1	0.100	0.05100	F1	mg/Kg		50	70 - 130	14	35
Toluene	<0.00198	U F1	0.100	0.03242	F1	mg/Kg		32	70 - 130	3	35
Ethylbenzene	<0.00198	U F1	0.100	0.03814	F1	mg/Kg		38	70 - 130	7	35
m-Xylene & p-Xylene	<0.00397	U F1	0.200	0.07028	F1	mg/Kg		35	70 - 130	6	35
o-Xylene	<0.00198	U F1	0.100	0.05176	F1	mg/Kg		52	70 - 130	9	35

Eurofins Xenco, Carlsbad

Page 44 of 92

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: MB 880-3392/5-A

**Matrix: Solid** 

**Analysis Batch: 3386** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3392

мв мв

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	U	0.00200	mg/Kg		05/24/21 09:50	05/24/21 22:52	1
Toluene	<0.00200 l	U	0.00200	mg/Kg		05/24/21 09:50	05/24/21 22:52	1
Ethylbenzene	<0.00200 l	U	0.00200	mg/Kg		05/24/21 09:50	05/24/21 22:52	1
m-Xylene & p-Xylene	<0.00400 l	U	0.00400	mg/Kg		05/24/21 09:50	05/24/21 22:52	1
o-Xylene	<0.00200 l	U	0.00200	mg/Kg		05/24/21 09:50	05/24/21 22:52	1
Xylenes, Total	<0.00400 l	U	0.00400	mg/Kg		05/24/21 09:50	05/24/21 22:52	1
Total BTEX	<0.00400 l	U	0.00400	mg/Kg		05/24/21 09:50	05/24/21 22:52	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	05/24/21 09:50	05/24/21 22:52	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/24/21 09:50	05/24/21 22:52	1

Lab Sample ID: LCS 880-3392/1-A

**Matrix: Solid** 

**Analysis Batch: 3386** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 3392

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08965		mg/Kg		90	70 - 130	
Toluene	0.100	0.09013		mg/Kg		90	70 - 130	
Ethylbenzene	0.100	0.09712		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2035		mg/Kg		102	70 - 130	
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-3392/2-A

**Matrix: Solid** 

**Analysis Batch: 3386** 

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 3392

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08341		mg/Kg		83	70 - 130	7	35
Toluene	0.100	0.08222		mg/Kg		82	70 - 130	9	35
Ethylbenzene	0.100	0.08434		mg/Kg		84	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1739		mg/Kg		87	70 - 130	16	35
o-Xylene	0.100	0.08849		mg/Kg		88	70 - 130	16	35

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Job ID: 890-716-1 Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-716-1 MS

Analysis Batch: 3386

**Matrix: Solid** 

Client Sample ID: CS1-Surface Prep Type: Total/NA

Prep Batch: 3392

Sample Sample Spike MS MS Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Benzene <0.00202 U F1 F2 0.100 0.04811 F1 mg/Kg 48 70 - 130 Toluene <0.00202 UF1 0.100 0.02738 F1 mg/Kg 27 70 - 130 Ethylbenzene <0.00202 UF1 0.100 0.03452 F1 mg/Kg 34 70 - 130 0.201 70 - 130 m-Xylene & p-Xylene <0.00403 U F1 0.06084 F1 mg/Kg 30 0.100 o-Xylene <0.00202 UF1 0.04803 F1 mg/Kg 48 70 - 130

MS MS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-716-1 MSD Client Sample ID: CS1-Surface

**Matrix: Solid** 

**Analysis Batch: 3386** 

Prep Type: Total/NA

Prep Batch: 3392

Sample Sample MSD MSD RPD Spike %Rec. Result Qualifier Added Result Qualifier RPD Limit Analyte Unit D %Rec I imits 0.02878 F1 F2 Benzene <0.00202 U F1 F2 0.100 mg/Kg 29 70 - 130 50 35 Toluene <0.00202 U F1 0.100 0.02007 F1 mg/Kg 20 70 - 130 31 35 0.02739 F1 27 Ethylbenzene <0.00202 UF1 0.100 mg/Kg 70 - 130 23 35 0.200 m-Xylene & p-Xylene <0.00403 UF1 0.04762 F1 mg/Kg 24 70 - 130 24 35 <0.00202 U F1 0.100 0.03778 F1 o-Xylene mg/Kg 38 70 - 130 24 35

MSD MSD

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-3445/5-A Client Sample ID: Method Blank **Matrix: Solid** 

**Analysis Batch: 3448** 

Prep Type: Total/NA

Prep Batch: 3445

Result Qualifier Dil Fac Analyte RL Unit D Prepared Analyzed Benzene <0.00200 U 0.00200 mg/Kg 05/25/21 08:50 05/25/21 12:11 Toluene <0.00200 U 0.00200 mg/Kg 05/25/21 08:50 05/25/21 12:11 Ethylbenzene <0.00200 U 0.00200 mg/Kg 05/25/21 08:50 05/25/21 12:11 m-Xylene & p-Xylene <0.00400 U 0.00400 05/25/21 08:50 05/25/21 12:11 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 05/25/21 08:50 05/25/21 12:11 Xylenes, Total <0.00400 U 0.00400 mg/Kg 05/25/21 08:50 05/25/21 12:11 Total BTEX <0.00400 U 0.00400 05/25/21 08:50 05/25/21 12:11 mg/Kg

MB MB

мв мв

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86	70 - 130	05/25/21 08:50	05/25/21 12:11	1
1,4-Difluorobenzene (Surr)	96	70 - 130	05/25/21 08:50	05/25/21 12:11	1

Lab Sample ID: LCS 880-3445/1-A

**Matrix: Solid** 

**Analysis Batch: 3448** 

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 3445

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1096		mg/Kg		110	70 - 130	

Eurofins Xenco, Carlsbad

Page 46 of 92

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Prep Type: Total/NA

Prep Batch: 3445

### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-3445/1-A

**Analysis Batch: 3448** 

**Matrix: Solid** 

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Toluene	0.100	0.1068		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2327		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1145		mg/Kg		115	70 <sub>-</sub> 130

%Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 109 1,4-Difluorobenzene (Surr) 104 70 - 130

Lab Sample ID: LCSD 880-3445/2-A

**Matrix: Solid** 

**Analysis Batch: 3448** 

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 3445

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1022		mg/Kg		102	70 - 130	7	35
Toluene	0.100	0.09832		mg/Kg		98	70 - 130	8	35
Ethylbenzene	0.100	0.09878		mg/Kg		99	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2082		mg/Kg		104	70 - 130	11	35
o-Xylene	0.100	0.1032		mg/Kg		103	70 - 130	10	35

LCSD LCSD Qualifier %Recovery Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 102 1,4-Difluorobenzene (Surr) 104 70 - 130

Lab Sample ID: 880-2390-A-1-H MS

**Matrix: Solid** 

**Analysis Batch: 3448** 

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 3445

%Rec. Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00200 U 0.0996 0.1161 mg/Kg 117 70 - 130 Toluene <0.00200 U 0.0996 0.1115 mg/Kg 112 70 - 130 Ethylbenzene <0.00200 U 0.0996 0.1102 mg/Kg 111 70 - 130 0.199 70 - 130 m-Xylene & p-Xylene <0.00400 U 0.2310 mg/Kg 116 0.0996 o-Xylene <0.00200 U 0.1133 mg/Kg 114 70 - 130

MS MS Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 70 - 130 104 107 70 - 130 1,4-Difluorobenzene (Surr)

Lab Sample ID: 880-2390-A-1-I MSD

**Matrix: Solid** 

**Analysis Batch: 3448** 

Client Sampl	e ID:	Matrix	<b>Spike</b>	<b>Duplicate</b>

Prep Type: Total/NA Prep Batch: 3445

	Sample	Sample	Spike	MSD	MSD				%Rec.	•	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0998	0.08389		mg/Kg		84	70 - 130	32	35
Toluene	<0.00200	U	0.0998	0.09186		mg/Kg		92	70 - 130	19	35
Ethylbenzene	<0.00200	U	0.0998	0.08478		mg/Kg		85	70 - 130	26	35
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1704		mg/Kg		85	70 - 130	30	35

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-2390-A-1-I MSD **Matrix: Solid** 

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 3445

**Analysis Batch: 3448** 

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
o-Xylene	<0.00200	U	0.0998	0.08300		mg/Kg		83	70 - 130	31	35

MSD MSD

Surrogate	%Recovery Qualit	fier Limits
4-Bromofluorobenzene (Surr)	86	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3457

Lab Sample ID: MB 880-3457/5-A **Matrix: Solid** 

**Analysis Batch: 3460** 

	IVIB I	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/21 10:23	05/25/21 20:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/21 10:23	05/25/21 20:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/21 10:23	05/25/21 20:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/25/21 10:23	05/25/21 20:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/21 10:23	05/25/21 20:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/25/21 10:23	05/25/21 20:13	1
Total BTEX	<0.00400		0.00400	ma/Ka		05/25/21 10:23	05/25/21 20:13	1

	MB	MB					
Surrogate	%Recovery	Qualifier	Limits	,	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 _ 130	05/	25/21 10:23	05/25/21 20:13	1
1,4-Difluorobenzene (Surr)	79		70 - 130	05/	25/21 10:23	05/25/21 20:13	1

Lab Sample ID: LCS 880-3457/1-A

Lab Sample ID: LCSD 880-3457/2-A

Released to Imaging: 2/2/2023 8:09:56 AM

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 3460** 

Client Sar	mple ID:	Lab	Control	Sample

Prep Type: Total/NA

Prep Batch: 3457

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09732		mg/Kg		97	70 - 130	
Toluene	0.100	0.09447		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.08807		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1773		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.08905		mg/Kg		89	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3457

**Analysis Batch: 3460** Spike LCSD LCSD %Rec. RPD Added Result Qualifier %Rec Limits RPD Limit Analyte Unit Benzene 0.100 0.08744 mg/Kg 87 70 - 130 11 35 Toluene 0.100 0.07677 mg/Kg 77 70 - 130 21 35 Ethylbenzene 0.100 0.07086 mg/Kg 71 70 - 130 22 35 m-Xylene & p-Xylene 0.200 0.1404 mg/Kg 70 70 - 130 23 35 0.100 o-Xylene 0.07541 mg/Kg 75 70 - 130 17 35

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 890-715-A-11-E MS Client Sample ID: Matrix Spike

Prep Type: Total/NA **Matrix: Solid** 

Prep Batch: 3457 **Analysis Batch: 3460** 

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.100	0.07000		mg/Kg		70	70 - 130	
Toluene	<0.00202	U F1	0.100	0.05818	F1	mg/Kg		58	70 - 130	
Ethylbenzene	<0.00202	U F1	0.100	0.05709	F1	mg/Kg		57	70 - 130	
m-Xylene & p-Xylene	<0.00403	U F1	0.200	0.1066	F1	mg/Kg		53	70 - 130	
o-Xylene	<0.00202	U F1	0.100	0.06050	F1	mg/Kg		60	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 70 - 130 89

1,4-Difluorobenzene (Surr) 102 70 - 130

Lab Sample ID: 890-715-A-11-F MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 3460** Prep Batch: 3457 MSD MSD RPD Sample Sample Spike %Rec.

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0998	0.09873		mg/Kg		99	70 - 130	34	35
Toluene	<0.00202	U F1	0.0998	0.06591	F1	mg/Kg		66	70 - 130	12	35
Ethylbenzene	<0.00202	U F1	0.0998	0.07136		mg/Kg		72	70 - 130	22	35
m-Xylene & p-Xylene	<0.00403	U F1	0.200	0.1340	F1	mg/Kg		67	70 - 130	23	35
o-Xylene	<0.00202	U F1	0.0998	0.07390		mg/Kg		74	70 - 130	20	35

MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 100 1,4-Difluorobenzene (Surr) 103 70 - 130

Lab Sample ID: MB 880-3460/8 Client Sample ID: Method Blank

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 3460** 

-	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			05/25/21 14:43	1
Toluene	<0.00200	U	0.00200	mg/Kg			05/25/21 14:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			05/25/21 14:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			05/25/21 14:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			05/25/21 14:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			05/25/21 14:43	1
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/25/21 14:43	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130		05/25/21 14:43	1
1,4-Difluorobenzene (Surr)	81		70 - 130		05/25/21 14:43	1

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-3429/1-A **Matrix: Solid** 

**Analysis Batch: 3438** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3429

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 13:27	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 13:27	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 13:27	1
Total TPH	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 13:27	1

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	05/24/21 16:09	05/25/21 13:27	1
o-Terphenyl	107		70 - 130	05/24/21 16:09	05/25/21 13:27	1

Lab Sample ID: LCS 880-3429/2-A

**Matrix: Solid** 

**Analysis Batch: 3438** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 3429

LCS LCS Spike %Rec. Added Result Qualifier Analyte Unit %Rec Limits Gasoline Range Organics 1000 831.1 83 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1099 mg/Kg 110 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: LCSD 880-3429/3-A

**Matrix: Solid** 

**Analysis Batch: 3438** 

Client	Sample	ID: Lab	Control	Sample	Dun
OHEHL	Januare	ID. Lab	COLLIG	Jailible	Dub

Prep Type: Total/NA

Prep Batch: 3429

	Spil	e LCSD	LCSD			%Rec.		RPD
Analyte	Adde	d Result	Qualifier	Unit [	%Rec	Limits	RPD	Limit
Gasoline Range Organics	100	0 850.2		mg/Kg	85	70 - 130	2	20
(GRO)-C6-C10								
Diesel Range Organics (Over	100	0 1106		mg/Kg	111	70 - 130	1	20
C10-C28)								

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 890-715-A-1-E MS

**Matrix: Solid** 

**Analysis Batch: 3438** 

Client Sample	ID: Matrix Spike	
---------------	------------------	--

Prep Type: Total/NA

Prep Batch: 3429

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	996	878.0		mg/Kg		85	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	996	1186		mg/Kg		119	70 - 130	
C10-C28)										

Limits

70 - 130

70 - 130

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

94

Job ID: 890-716-1

# Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-715-A-1-E MS

**Matrix: Solid** 

o-Terphenyl

**Analysis Batch: 3438** 

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3429

MS MS Surrogate %Recovery Qualifier 1-Chlorooctane 105

Lab Sample ID: 890-715-A-1-F MSD

Lab Sample ID: MB 880-3444/1-A

**Matrix: Solid Analysis Batch: 3438**  Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3429

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <49.9 U 996 874.8 85 70 - 130 0 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 996 <49.9 U 1162 mg/Kg 117 70 - 1302 20 C10-C28)

MSD MSD

Surrogate %Recovery Qualifier Limits 103 70 - 130 1-Chlorooctane o-Terphenyl 93 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3444

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/25/21 23:09	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/25/21 23:09	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/25/21 23:09	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/25/21 23:09	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepar	ed	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	05/25/21 (	08:49	05/25/21 23:09	1
o-Terphenyl	105		70 - 130	05/25/21 (	08:49	05/25/21 23:09	1

Lab Sample ID: LCS 880-3444/2-A

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 3440** 

**Analysis Batch: 3440** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 3444

	<b>Spike</b>	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	853.2		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1022		mg/Kg		102	70 - 130	
C10-C28)								

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

LCS	LCS	
%Recovery	Qualifier	Limits
114		70 - 130

101 70 - 130

Eurofins Xenco, Carlsbad

5/28/2021

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-3444/3-A

**Matrix: Solid** 

**Analysis Batch: 3440** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3444

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	890.1		mg/Kg		89	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1015		mg/Kg		102	70 - 130	1	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 119 o-Terphenyl 100 70 - 130

Client Sample ID: CS1-Surface

Prep Type: Total/NA

Prep Batch: 3444

Lab Sample ID: 890-716-1 MS **Matrix: Solid Analysis Batch: 3440** 

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <49.9 U 996 70 - 130 Gasoline Range Organics 755.9 mg/Kg 76 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 996 925.4 mg/Kg 93 70 - 130

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 90 70 - 130 o-Terphenyl 70 70 - 130

Lab Sample ID: 890-716-1 MSD

**Matrix: Solid** 

**Analysis Batch: 3440** 

Client Sample ID: CS1-Surface

Prep Type: Total/NA

Prep Batch: 3444

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	996	840.4		mg/Kg		84	70 - 130	11	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	996	1038		mg/Kg		104	70 - 130	11	20
C10-C28)											

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 101 70 - 130 70 - 130 o-Terphenyl 80

MD MD

Lab Sample ID: MB 880-3450/1-A

**Matrix: Solid** 

**Analysis Batch: 3442** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3450

١		IVID	IVID						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/25/21 23:09	1
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/25/21 23:09	1
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/25/21 23:09	1
	Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/25/21 23:09	1

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

# Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-3450/1-A **Matrix: Solid** 

**Analysis Batch: 3442** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

Prep Batch: 3450

ΜВ	ΜВ

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	05/25/21 09	05/25/21 23:09	1
o-Terphenyl	102		70 - 130	05/25/21 09	05/25/21 23:09	1

Lab Sample ID: LCS 880-3450/2-A

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 3442** 

Analysis Batch: 3442

Client Sample	ID:	Lab	Control	Sample
---------------	-----	-----	---------	--------

Prep Type: Total/NA

Prep Batch: 3450

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	889.8		mg/Kg		89	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	951.3		mg/Kg		95	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	95		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3450

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	830.7		mg/Kg		83	70 - 130	7	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	973.8		mg/Kg		97	70 - 130	2	20
C10-C28)									

LCSD LCSD

Lab Sample ID: LCSD 880-3450/3-A

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 890-716-21 MS Client Sample ID: CS11-Surface

**Matrix: Solid** 

**Analysis Batch: 3442** 

**Prep Type: Total/NA** 

Prep Batch: 3450

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	996	767.9		mg/Kg		75	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	996	883.9		mg/Kg		89	70 - 130	
C10-C28)										

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	70		70 - 130

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-716-21 MSD

**Analysis Batch: 3442** 

**Matrix: Solid** 

Client Sample ID: CS11-Surface

Prep Type: Total/NA

Prep Batch: 3450

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	996	758.6		mg/Kg		74	70 - 130	1	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	996	935.2		mg/Kg		94	70 - 130	6	20
C10-C28)											

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	74		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3539

Lab Sample ID: MB 880-3539/1-A

**Matrix: Solid** 

**Analysis Batch: 3502** 

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/26/21 14:55	05/26/21 22:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/26/21 14:55	05/26/21 22:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/26/21 14:55	05/26/21 22:25	1
Total TPH	<50.0	U	50.0	mg/Kg		05/26/21 14:55	05/26/21 22:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	05/26/21 14:55	05/26/21 22:25	1
o-Terphenyl	86		70 - 130	05/26/21 14:55	05/26/21 22:25	1

Lab Sample ID: LCS 880-3539/2-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 3502** 

		Prep Type: Total/NA
		Prep Batch: 3539
Snike	LCS LCS	%Rec.

mg/Kg

100

70 - 130

	Opino						701100.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	969.2		mg/Kg		97	70 - 130	_
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1108		mg/Kg		111	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: LCSD 880-3539/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 3502** 

Diesel Range Organics (Over

Prep Batch: 3539 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Limit Unit %Rec Limits RPD 1000 Gasoline Range Organics 872.1 mg/Kg 87 70 - 130 11 20 (GRO)-C6-C10

996.4

1000

C10-C28)

Eurofins Xenco, Carlsbad

11

20

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

63.5

Lab Sample ID: LCSD 880-3539/3-A

**Matrix: Solid Analysis Batch: 3502**  Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

79

Prep Batch: 3539

LCSD LCSD Surrogate %Recovery Qualifier 1-Chlorooctane 96

o-Terphenyl 78

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3539

Lab Sample ID: 880-2503-A-21-B MS **Matrix: Solid** 

Lab Sample ID: 880-2503-A-21-C MSD

**Analysis Batch: 3502** 

Diesel Range Organics (Over

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 Ū 996 789.6 79 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10

996

846.9

mg/Kg

Limits

70 - 130

70 - 130

C10-C28)

MS MS %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 88 70 - 130 o-Terphenyl 73

Client Sample ID: Matrix Spike Duplicate

70 - 130

Prep Type: Total/NA

Prep Batch: 3539

MSD MSD RPD Sample Sample Spike %Rec. Analyte Result Qualifier hahhA Result Qualifier Unit %Rec I imits RPD Limit D Gasoline Range Organics <49.9 U 996 798.7 mg/Kg 80 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 63.5 996 866.8 mg/Kg 81 70 - 130 2 20

C10-C28)

**Matrix: Solid** 

**Analysis Batch: 3502** 

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 89 70 - 130 o-Terphenyl 73

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3424/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 3485** 

мв мв Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 05/26/21 19:03

Lab Sample ID: LCS 880-3424/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 3485

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit Limits Chloride 250 254.3 mg/Kg 102 90 - 110

Client: EOR/Ridgeway Arizona Oil Corp

Lab Sample ID: LCSD 880-3424/3-A

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Method: 300.0 - Anions, Ion Chromatography (Continued)

<5.04 U

Client Sample ID: Lab Control Sample Dup

102

90 - 110

**Prep Type: Soluble** 

Analysis Batch: 3485

**Matrix: Solid** 

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	254.1		mg/Kg		102	90 - 110	0	20	

Lab Sample ID: 890-716-1 MS Client Sample ID: CS1-Surface **Matrix: Solid** 

**Prep Type: Soluble** 

**Analysis Batch: 3485** 

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits

252

Lab Sample ID: 890-716-1 MSD Client Sample ID: CS1-Surface

**Matrix: Solid Prep Type: Soluble** 

262.1

mg/Kg

**Analysis Batch: 3485** 

MSD MSD %Rec. RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride <5.04 U 252 261.6 mg/Kg 102 90 - 110

Lab Sample ID: MB 880-3451/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

Chloride

**Analysis Batch: 3486** 

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00		5.00	mg/Kg			05/26/21 21:54	1

Lab Sample ID: LCS 880-3451/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 3486** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 256.5 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-3451/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 3486** 

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	256.7		ma/Ka		103	90 - 110		20	

Lab Sample ID: 890-716-11 MS Client Sample ID: CS6-Surface **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 3486** 

	Sample Sample	Spike	MS	MS				%Rec.
Analyte	Result Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	15.2	248	262.4		mg/Kg		100	90 - 110

Lab Sample ID: 890-716-11 MSD Client Sample ID: CS6-Surface **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 3486											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	15.2		248	261.6		mg/Kg		99	90 - 110		20

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

**Prep Type: Soluble** 

Client Sample ID: CS11-Surface

Client Sample ID: CS11-Surface

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: CS16-Surface

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-716-21 MS

**Matrix: Solid** 

**Analysis Batch: 3486** 

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride <4.95 U 248 253.6 mg/Kg 100 90 - 110

Lab Sample ID: 890-716-21 MSD

**Matrix: Solid** 

**Analysis Batch: 3486** 

•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	<4.95	U	248	254.0		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-3455/1-A

**Matrix: Solid** 

**Analysis Batch: 3533** 

мв мв

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 05/27/21 00:46 mg/Kg

Lab Sample ID: LCS 880-3455/2-A

**Matrix: Solid** 

**Analysis Batch: 3533** 

		<b>Spike</b>	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	257.1		mg/Kg		103	90 _ 110	

Lab Sample ID: LCSD 880-3455/3-A

**Matrix: Solid** 

Analysis Batch: 3533

	Spike	LCSD	LCSD				70Rec.		KFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	256.9		mg/Kg		103	90 - 110	0	20	

Lab Sample ID: 890-716-31 MS

**Matrix: Solid** 

**Analysis Batch: 3533** 

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	<4.96	U	248	256.9		mg/Kg	_	102	90 - 110	

Lab Sample ID: 890-716-31 MSD

**Matrix: Solid** 

**Analysis Batch: 3533** 

7 manyone Battern cool											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	<4.96	U	248	256.9	-	mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-716-41 MS

Released to Imaging: 2/2/2023 8:09:56 AM

Matrix: Solid

Analysis Batch: 3533										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	18.4		250	272.7		mg/Kg		102	90 - 110	

Eurofins Xenco, Carlsbad

Page 57 of 92

Client Sample ID: CS16-Surface

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client: EOR/Ridgeway Arizona Oil Corp Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: CS21-Surface Lab Sample ID: 890-716-41 MSD

**Matrix: Solid Prep Type: Soluble** Analysis Batch: 3533

RPD Sample Sample Spike MSD MSD %Rec.

Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Chloride 18.4 250 272.6 mg/Kg 102 90 - 110 0 20

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

**GC VOA** 

Prep Batch: 3334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3334/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 3385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3385/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 3386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-1	CS1-Surface	Total/NA	Solid	8021B	3392
890-716-2	CS1-1'	Total/NA	Solid	8021B	3392
890-716-3	CS2-Surface	Total/NA	Solid	8021B	3392
890-716-4	CS2-1'	Total/NA	Solid	8021B	3392
890-716-5	CS3-Surface	Total/NA	Solid	8021B	3392
890-716-6	CS3-1'	Total/NA	Solid	8021B	3392
890-716-7	CS4-Surface	Total/NA	Solid	8021B	3392
890-716-8	CS4-1'	Total/NA	Solid	8021B	3392
890-716-9	CS5-Surface	Total/NA	Solid	8021B	3392
890-716-10	CS5-1'	Total/NA	Solid	8021B	3392
890-716-11	CS6-Surface	Total/NA	Solid	8021B	3392
890-716-12	CS6-1'	Total/NA	Solid	8021B	3392
890-716-13	CS7-Surface	Total/NA	Solid	8021B	3392
890-716-14	CS7-1'	Total/NA	Solid	8021B	3392
890-716-15	CS8-Surface	Total/NA	Solid	8021B	3392
890-716-16	CS8-1'	Total/NA	Solid	8021B	3392
890-716-17	CS9-urface	Total/NA	Solid	8021B	3392
890-716-18	CS9-1'	Total/NA	Solid	8021B	3392
890-716-19	CS10-Surface	Total/NA	Solid	8021B	3392
890-716-20	CS10-1'	Total/NA	Solid	8021B	3392
MB 880-3334/5-A	Method Blank	Total/NA	Solid	8021B	3334
MB 880-3392/5-A	Method Blank	Total/NA	Solid	8021B	3392
LCS 880-3392/1-A	Lab Control Sample	Total/NA	Solid	8021B	3392
LCSD 880-3392/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3392
890-716-1 MS	CS1-Surface	Total/NA	Solid	8021B	3392
890-716-1 MSD	CS1-Surface	Total/NA	Solid	8021B	3392

**Analysis Batch: 3387** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-21	CS11-Surface	Total/NA	Solid	8021B	3390
890-716-22	CS11-1'	Total/NA	Solid	8021B	3390
890-716-23	CS12-Surface	Total/NA	Solid	8021B	3390
890-716-24	CS12-1'	Total/NA	Solid	8021B	3390
890-716-25	CS13-Surface	Total/NA	Solid	8021B	3390
890-716-26	CS13-1'	Total/NA	Solid	8021B	3390
890-716-27	CS14-Surface	Total/NA	Solid	8021B	3390
890-716-28	CS14-1'	Total/NA	Solid	8021B	3390
890-716-29	CS15-Surface	Total/NA	Solid	8021B	3390
890-716-30	CS15-1'	Total/NA	Solid	8021B	3390
MB 880-3385/5-A	Method Blank	Total/NA	Solid	8021B	3385
MB 880-3390/5-A	Method Blank	Total/NA	Solid	8021B	3390
LCS 880-3390/1-A	Lab Control Sample	Total/NA	Solid	8021B	3390
LCSD 880-3390/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3390

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Job ID: 890-716-1

.00 7 10 1

# **GC VOA (Continued)**

### **Analysis Batch: 3387 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-21 MS	CS11-Surface	Total/NA	Solid	8021B	3390
890-716-21 MSD	CS11-Surface	Total/NA	Solid	8021B	3390

#### **Analysis Batch: 3388**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-41	CS21-Surface	Total/NA	Solid	8021B	3389
890-716-42	CS21-1'	Total/NA	Solid	8021B	3389
890-716-43	CS22-Surface	Total/NA	Solid	8021B	3389
890-716-44	CS22-1'	Total/NA	Solid	8021B	3389
890-716-45	CS23-Surface	Total/NA	Solid	8021B	3389
890-716-46	CS23-1'	Total/NA	Solid	8021B	3389
MB 880-3388/8	Method Blank	Total/NA	Solid	8021B	
MB 880-3389/5-A	Method Blank	Total/NA	Solid	8021B	3389
LCS 880-3389/1-A	Lab Control Sample	Total/NA	Solid	8021B	3389
LCSD 880-3389/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3389
820-756-A-11-G MS	Matrix Spike	Total/NA	Solid	8021B	3389
820-756-A-11-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	3389

#### Prep Batch: 3389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-41	CS21-Surface	Total/NA	Solid	5035	
890-716-42	CS21-1'	Total/NA	Solid	5035	
890-716-43	CS22-Surface	Total/NA	Solid	5035	
890-716-44	CS22-1'	Total/NA	Solid	5035	
890-716-45	CS23-Surface	Total/NA	Solid	5035	
890-716-46	CS23-1'	Total/NA	Solid	5035	
MB 880-3389/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3389/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3389/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-756-A-11-G MS	Matrix Spike	Total/NA	Solid	5035	
820-756-A-11-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Prep Batch: 3390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-716-21	CS11-Surface	Total/NA	Solid	5035	
890-716-22	CS11-1'	Total/NA	Solid	5035	
890-716-23	CS12-Surface	Total/NA	Solid	5035	
890-716-24	CS12-1'	Total/NA	Solid	5035	
890-716-25	CS13-Surface	Total/NA	Solid	5035	
890-716-26	CS13-1'	Total/NA	Solid	5035	
890-716-27	CS14-Surface	Total/NA	Solid	5035	
890-716-28	CS14-1'	Total/NA	Solid	5035	
890-716-29	CS15-Surface	Total/NA	Solid	5035	
890-716-30	CS15-1'	Total/NA	Solid	5035	
MB 880-3390/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3390/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3390/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-716-21 MS	CS11-Surface	Total/NA	Solid	5035	
890-716-21 MSD	CS11-Surface	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

Released to Imaging: 2/2/2023 8:09:56 AM

2

5

9

11

14

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Job ID: 890-716-1

### **GC VOA**

#### Prep Batch: 3392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-716-1	CS1-Surface	Total/NA	Solid	5035	
890-716-2	CS1-1'	Total/NA	Solid	5035	
890-716-3	CS2-Surface	Total/NA	Solid	5035	
890-716-4	CS2-1'	Total/NA	Solid	5035	
890-716-5	CS3-Surface	Total/NA	Solid	5035	
890-716-6	CS3-1'	Total/NA	Solid	5035	
890-716-7	CS4-Surface	Total/NA	Solid	5035	
890-716-8	CS4-1'	Total/NA	Solid	5035	
890-716-9	CS5-Surface	Total/NA	Solid	5035	
890-716-10	CS5-1'	Total/NA	Solid	5035	
890-716-11	CS6-Surface	Total/NA	Solid	5035	
890-716-12	CS6-1'	Total/NA	Solid	5035	
890-716-13	CS7-Surface	Total/NA	Solid	5035	
890-716-14	CS7-1'	Total/NA	Solid	5035	
890-716-15	CS8-Surface	Total/NA	Solid	5035	
890-716-16	CS8-1'	Total/NA	Solid	5035	
890-716-17	CS9-urface	Total/NA	Solid	5035	
890-716-18	CS9-1'	Total/NA	Solid	5035	
890-716-19	CS10-Surface	Total/NA	Solid	5035	
890-716-20	CS10-1'	Total/NA	Solid	5035	
MB 880-3392/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3392/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3392/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-716-1 MS	CS1-Surface	Total/NA	Solid	5035	
890-716-1 MSD	CS1-Surface	Total/NA	Solid	5035	

### Prep Batch: 3445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-31	CS16-Surface	Total/NA	Solid	5035	
890-716-32	CS16-1'	Total/NA	Solid	5035	
890-716-33	CS17-Surface	Total/NA	Solid	5035	
890-716-34	CS17-1'	Total/NA	Solid	5035	
890-716-35	CS18-Surface	Total/NA	Solid	5035	
890-716-36	CS18-1'	Total/NA	Solid	5035	
890-716-37	CS19-Surface	Total/NA	Solid	5035	
890-716-38	CS19-1'	Total/NA	Solid	5035	
890-716-39	CS20-Surface	Total/NA	Solid	5035	
890-716-40	CS20-1'	Total/NA	Solid	5035	
MB 880-3445/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3445/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3445/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-2390-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
880-2390-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### **Analysis Batch: 3448**

<b>Lab Sample ID</b> 890-716-31	Client Sample ID  CS16-Surface	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 3445
890-716-32	CS16-1'	Total/NA	Solid	8021B	3445
890-716-33	CS17-Surface	Total/NA	Solid	8021B	3445
890-716-34	CS17-1'	Total/NA	Solid	8021B	3445
890-716-35	CS18-Surface	Total/NA	Solid	8021B	3445

Eurofins Xenco, Carlsbad

Page 61 of 92

3

4

6

8

10

12

13

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Job ID: 890-716-1

GC VOA (Continued)

### **Analysis Batch: 3448 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-36	CS18-1'	Total/NA	Solid	8021B	3445
890-716-37	CS19-Surface	Total/NA	Solid	8021B	3445
890-716-38	CS19-1'	Total/NA	Solid	8021B	3445
890-716-39	CS20-Surface	Total/NA	Solid	8021B	3445
890-716-40	CS20-1'	Total/NA	Solid	8021B	3445
MB 880-3445/5-A	Method Blank	Total/NA	Solid	8021B	3445
LCS 880-3445/1-A	Lab Control Sample	Total/NA	Solid	8021B	3445
LCSD 880-3445/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3445
880-2390-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	3445
880-2390-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	3445

#### Prep Batch: 3457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-41	CS21-Surface	Total/NA	Solid	5035	
890-716-42	CS21-1'	Total/NA	Solid	5035	
890-716-43	CS22-Surface	Total/NA	Solid	5035	
890-716-44	CS22-1'	Total/NA	Solid	5035	
890-716-45	CS23-Surface	Total/NA	Solid	5035	
890-716-46	CS23-1'	Total/NA	Solid	5035	
MB 880-3457/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3457/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3457/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-715-A-11-E MS	Matrix Spike	Total/NA	Solid	5035	
890-715-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### **Analysis Batch: 3460**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-41	CS21-Surface	Total/NA	Solid	8021B	3457
890-716-42	CS21-1'	Total/NA	Solid	8021B	3457
890-716-43	CS22-Surface	Total/NA	Solid	8021B	3457
890-716-44	CS22-1'	Total/NA	Solid	8021B	3457
890-716-45	CS23-Surface	Total/NA	Solid	8021B	3457
890-716-46	CS23-1'	Total/NA	Solid	8021B	3457
MB 880-3457/5-A	Method Blank	Total/NA	Solid	8021B	3457
MB 880-3460/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-3457/1-A	Lab Control Sample	Total/NA	Solid	8021B	3457
LCSD 880-3457/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3457
890-715-A-11-E MS	Matrix Spike	Total/NA	Solid	8021B	3457
890-715-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	3457

#### **GC Semi VOA**

#### Prep Batch: 3429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-41	CS21-Surface	Total/NA	Solid	8015NM Prep	
890-716-42	CS21-1'	Total/NA	Solid	8015NM Prep	
890-716-43	CS22-Surface	Total/NA	Solid	8015NM Prep	
890-716-44	CS22-1'	Total/NA	Solid	8015NM Prep	
890-716-45	CS23-Surface	Total/NA	Solid	8015NM Prep	
890-716-46	CS23-1'	Total/NA	Solid	8015NM Prep	
MB 880-3429/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

2

3

4

6

8

9

11

М

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Job ID: 890-716-1

### GC Semi VOA (Continued)

#### Prep Batch: 3429 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-3429/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-715-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-715-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 3438**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-41	CS21-Surface	Total/NA	Solid	8015B NM	3429
890-716-42	CS21-1'	Total/NA	Solid	8015B NM	3429
890-716-43	CS22-Surface	Total/NA	Solid	8015B NM	3429
890-716-44	CS22-1'	Total/NA	Solid	8015B NM	3429
890-716-45	CS23-Surface	Total/NA	Solid	8015B NM	3429
890-716-46	CS23-1'	Total/NA	Solid	8015B NM	3429
MB 880-3429/1-A	Method Blank	Total/NA	Solid	8015B NM	3429
LCS 880-3429/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3429
LCSD 880-3429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3429
890-715-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	3429
890-715-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	3429

#### Analysis Batch: 3440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-1	CS1-Surface	Total/NA	Solid	8015B NM	3444
890-716-2	CS1-1'	Total/NA	Solid	8015B NM	3444
890-716-3	CS2-Surface	Total/NA	Solid	8015B NM	3444
890-716-4	CS2-1'	Total/NA	Solid	8015B NM	3444
890-716-5	CS3-Surface	Total/NA	Solid	8015B NM	3444
890-716-6	CS3-1'	Total/NA	Solid	8015B NM	3444
890-716-7	CS4-Surface	Total/NA	Solid	8015B NM	3444
890-716-8	CS4-1'	Total/NA	Solid	8015B NM	3444
890-716-9	CS5-Surface	Total/NA	Solid	8015B NM	3444
890-716-10	CS5-1'	Total/NA	Solid	8015B NM	3444
890-716-11	CS6-Surface	Total/NA	Solid	8015B NM	3444
890-716-12	CS6-1'	Total/NA	Solid	8015B NM	3444
890-716-13	CS7-Surface	Total/NA	Solid	8015B NM	3444
890-716-14	CS7-1'	Total/NA	Solid	8015B NM	3444
890-716-15	CS8-Surface	Total/NA	Solid	8015B NM	3444
890-716-16	CS8-1'	Total/NA	Solid	8015B NM	3444
890-716-17	CS9-urface	Total/NA	Solid	8015B NM	3444
890-716-18	CS9-1'	Total/NA	Solid	8015B NM	3444
890-716-19	CS10-Surface	Total/NA	Solid	8015B NM	3444
890-716-20	CS10-1'	Total/NA	Solid	8015B NM	3444
MB 880-3444/1-A	Method Blank	Total/NA	Solid	8015B NM	3444
LCS 880-3444/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3444
LCSD 880-3444/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3444
890-716-1 MS	CS1-Surface	Total/NA	Solid	8015B NM	3444
890-716-1 MSD	CS1-Surface	Total/NA	Solid	8015B NM	3444

#### Analysis Batch: 3442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-21	CS11-Surface	Total/NA	Solid	8015B NM	3450
890-716-22	CS11-1'	Total/NA	Solid	8015B NM	3450

Eurofins Xenco, Carlsbad

2

Δ

**O** 

8

9

11

13

14

Client: EOR/Ridgeway Arizona Oil Corp Job ID: 890-716-1 Project/Site: Mizar 11 Fed Com 14

### GC Semi VOA (Continued)

### **Analysis Batch: 3442 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-23	CS12-Surface	Total/NA	Solid	8015B NM	3450
890-716-24	CS12-1'	Total/NA	Solid	8015B NM	3450
890-716-25	CS13-Surface	Total/NA	Solid	8015B NM	3450
890-716-26	CS13-1'	Total/NA	Solid	8015B NM	3450
890-716-27	CS14-Surface	Total/NA	Solid	8015B NM	3450
890-716-28	CS14-1'	Total/NA	Solid	8015B NM	3450
890-716-29	CS15-Surface	Total/NA	Solid	8015B NM	3450
890-716-30	CS15-1'	Total/NA	Solid	8015B NM	3450
890-716-31	CS16-Surface	Total/NA	Solid	8015B NM	3450
890-716-33	CS17-Surface	Total/NA	Solid	8015B NM	3450
890-716-34	CS17-1'	Total/NA	Solid	8015B NM	3450
890-716-35	CS18-Surface	Total/NA	Solid	8015B NM	3450
890-716-36	CS18-1'	Total/NA	Solid	8015B NM	3450
890-716-37	CS19-Surface	Total/NA	Solid	8015B NM	3450
890-716-38	CS19-1'	Total/NA	Solid	8015B NM	3450
890-716-39	CS20-Surface	Total/NA	Solid	8015B NM	3450
890-716-40	CS20-1'	Total/NA	Solid	8015B NM	3450
MB 880-3450/1-A	Method Blank	Total/NA	Solid	8015B NM	3450
LCS 880-3450/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3450
LCSD 880-3450/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3450
890-716-21 MS	CS11-Surface	Total/NA	Solid	8015B NM	3450
890-716-21 MSD	CS11-Surface	Total/NA	Solid	8015B NM	3450

#### Prep Batch: 3444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-716-1	CS1-Surface	Total/NA	Solid	8015NM Prep	
890-716-2	CS1-1'	Total/NA	Solid	8015NM Prep	
890-716-3	CS2-Surface	Total/NA	Solid	8015NM Prep	
890-716-4	CS2-1'	Total/NA	Solid	8015NM Prep	
890-716-5	CS3-Surface	Total/NA	Solid	8015NM Prep	
890-716-6	CS3-1'	Total/NA	Solid	8015NM Prep	
890-716-7	CS4-Surface	Total/NA	Solid	8015NM Prep	
890-716-8	CS4-1'	Total/NA	Solid	8015NM Prep	
890-716-9	CS5-Surface	Total/NA	Solid	8015NM Prep	
890-716-10	CS5-1'	Total/NA	Solid	8015NM Prep	
890-716-11	CS6-Surface	Total/NA	Solid	8015NM Prep	
890-716-12	CS6-1'	Total/NA	Solid	8015NM Prep	
890-716-13	CS7-Surface	Total/NA	Solid	8015NM Prep	
890-716-14	CS7-1'	Total/NA	Solid	8015NM Prep	
390-716-15	CS8-Surface	Total/NA	Solid	8015NM Prep	
890-716-16	CS8-1'	Total/NA	Solid	8015NM Prep	
390-716-17	CS9-urface	Total/NA	Solid	8015NM Prep	
890-716-18	CS9-1'	Total/NA	Solid	8015NM Prep	
890-716-19	CS10-Surface	Total/NA	Solid	8015NM Prep	
890-716-20	CS10-1'	Total/NA	Solid	8015NM Prep	
MB 880-3444/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
_CS 880-3444/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
_CSD 880-3444/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
390-716-1 MS	CS1-Surface	Total/NA	Solid	8015NM Prep	
890-716-1 MSD	CS1-Surface	Total/NA	Solid	8015NM Prep	

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

### GC Semi VOA

#### Prep Batch: 3450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-21	CS11-Surface	Total/NA	Solid	8015NM Prep	
890-716-22	CS11-1'	Total/NA	Solid	8015NM Prep	
890-716-23	CS12-Surface	Total/NA	Solid	8015NM Prep	
890-716-24	CS12-1'	Total/NA	Solid	8015NM Prep	
890-716-25	CS13-Surface	Total/NA	Solid	8015NM Prep	
890-716-26	CS13-1'	Total/NA	Solid	8015NM Prep	
890-716-27	CS14-Surface	Total/NA	Solid	8015NM Prep	
890-716-28	CS14-1'	Total/NA	Solid	8015NM Prep	
890-716-29	CS15-Surface	Total/NA	Solid	8015NM Prep	
890-716-30	CS15-1'	Total/NA	Solid	8015NM Prep	
890-716-31	CS16-Surface	Total/NA	Solid	8015NM Prep	
890-716-33	CS17-Surface	Total/NA	Solid	8015NM Prep	
890-716-34	CS17-1'	Total/NA	Solid	8015NM Prep	
890-716-35	CS18-Surface	Total/NA	Solid	8015NM Prep	
890-716-36	CS18-1'	Total/NA	Solid	8015NM Prep	
890-716-37	CS19-Surface	Total/NA	Solid	8015NM Prep	
890-716-38	CS19-1'	Total/NA	Solid	8015NM Prep	
890-716-39	CS20-Surface	Total/NA	Solid	8015NM Prep	
890-716-40	CS20-1'	Total/NA	Solid	8015NM Prep	
MB 880-3450/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3450/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3450/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-716-21 MS	CS11-Surface	Total/NA	Solid	8015NM Prep	
890-716-21 MSD	CS11-Surface	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 3502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-32	CS16-1'	Total/NA	Solid	8015B NM	3539
MB 880-3539/1-A	Method Blank	Total/NA	Solid	8015B NM	3539
LCS 880-3539/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3539
LCSD 880-3539/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3539
880-2503-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	3539
880-2503-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	3539

#### Prep Batch: 3539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-32	CS16-1'	Total/NA	Solid	8015NM Prep	
MB 880-3539/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3539/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3539/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-2503-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-2503-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### **HPLC/IC**

#### Leach Batch: 3424

<b>Lab Sample ID</b> 890-716-1	Client Sample ID  CS1-Surface	Prep Type Soluble	Matrix Solid	Method Prep Batch DI Leach
890-716-2	CS1-1'	Soluble	Solid	DI Leach
890-716-3	CS2-Surface	Soluble	Solid	DI Leach
890-716-4	CS2-1'	Soluble	Solid	DI Leach

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Job ID: 890-716-1

# **HPLC/IC** (Continued)

### Leach Batch: 3424 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-5	CS3-Surface	Soluble	Solid	DI Leach	_
890-716-6	CS3-1'	Soluble	Solid	DI Leach	
890-716-7	CS4-Surface	Soluble	Solid	DI Leach	
890-716-8	CS4-1'	Soluble	Solid	DI Leach	
890-716-9	CS5-Surface	Soluble	Solid	DI Leach	
890-716-10	CS5-1'	Soluble	Solid	DI Leach	
MB 880-3424/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3424/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3424/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-716-1 MS	CS1-Surface	Soluble	Solid	DI Leach	
890-716-1 MSD	CS1-Surface	Soluble	Solid	DI Leach	

#### Leach Batch: 3451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-11	CS6-Surface	Soluble	Solid	DI Leach	
890-716-12	CS6-1'	Soluble	Solid	DI Leach	
890-716-13	CS7-Surface	Soluble	Solid	DI Leach	
890-716-14	CS7-1'	Soluble	Solid	DI Leach	
890-716-15	CS8-Surface	Soluble	Solid	DI Leach	
890-716-16	CS8-1'	Soluble	Solid	DI Leach	
890-716-17	CS9-urface	Soluble	Solid	DI Leach	
890-716-18	CS9-1'	Soluble	Solid	DI Leach	
890-716-19	CS10-Surface	Soluble	Solid	DI Leach	
890-716-20	CS10-1'	Soluble	Solid	DI Leach	
890-716-21	CS11-Surface	Soluble	Solid	DI Leach	
890-716-22	CS11-1'	Soluble	Solid	DI Leach	
890-716-23	CS12-Surface	Soluble	Solid	DI Leach	
890-716-24	CS12-1'	Soluble	Solid	DI Leach	
890-716-25	CS13-Surface	Soluble	Solid	DI Leach	
890-716-26	CS13-1'	Soluble	Solid	DI Leach	
890-716-27	CS14-Surface	Soluble	Solid	DI Leach	
890-716-28	CS14-1'	Soluble	Solid	DI Leach	
890-716-29	CS15-Surface	Soluble	Solid	DI Leach	
890-716-30	CS15-1'	Soluble	Solid	DI Leach	
MB 880-3451/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3451/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3451/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-716-11 MS	CS6-Surface	Soluble	Solid	DI Leach	
890-716-11 MSD	CS6-Surface	Soluble	Solid	DI Leach	
890-716-21 MS	CS11-Surface	Soluble	Solid	DI Leach	
890-716-21 MSD	CS11-Surface	Soluble	Solid	DI Leach	

#### Leach Batch: 3455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-31	CS16-Surface	Soluble	Solid	DI Leach	
890-716-32	CS16-1'	Soluble	Solid	DI Leach	
890-716-33	CS17-Surface	Soluble	Solid	DI Leach	
890-716-34	CS17-1'	Soluble	Solid	DI Leach	
890-716-35	CS18-Surface	Soluble	Solid	DI Leach	
890-716-36	CS18-1'	Soluble	Solid	DI Leach	
890-716-37	CS19-Surface	Soluble	Solid	DI Leach	

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Job ID: 890-716-1

### **HPLC/IC** (Continued)

### Leach Batch: 3455 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-38	CS19-1'	Soluble	Solid	DI Leach	
890-716-39	CS20-Surface	Soluble	Solid	DI Leach	
890-716-40	CS20-1'	Soluble	Solid	DI Leach	
890-716-41	CS21-Surface	Soluble	Solid	DI Leach	
890-716-42	CS21-1'	Soluble	Solid	DI Leach	
890-716-43	CS22-Surface	Soluble	Solid	DI Leach	
890-716-44	CS22-1'	Soluble	Solid	DI Leach	
890-716-45	CS23-Surface	Soluble	Solid	DI Leach	
890-716-46	CS23-1'	Soluble	Solid	DI Leach	
MB 880-3455/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3455/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3455/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-716-31 MS	CS16-Surface	Soluble	Solid	DI Leach	
890-716-31 MSD	CS16-Surface	Soluble	Solid	DI Leach	
890-716-41 MS	CS21-Surface	Soluble	Solid	DI Leach	
890-716-41 MSD	CS21-Surface	Soluble	Solid	DI Leach	

#### **Analysis Batch: 3485**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-1	CS1-Surface	Soluble	Solid	300.0	3424
890-716-2	CS1-1'	Soluble	Solid	300.0	3424
890-716-3	CS2-Surface	Soluble	Solid	300.0	3424
890-716-4	CS2-1'	Soluble	Solid	300.0	3424
890-716-5	CS3-Surface	Soluble	Solid	300.0	3424
890-716-6	CS3-1'	Soluble	Solid	300.0	3424
890-716-7	CS4-Surface	Soluble	Solid	300.0	3424
890-716-8	CS4-1'	Soluble	Solid	300.0	3424
890-716-9	CS5-Surface	Soluble	Solid	300.0	3424
890-716-10	CS5-1'	Soluble	Solid	300.0	3424
MB 880-3424/1-A	Method Blank	Soluble	Solid	300.0	3424
LCS 880-3424/2-A	Lab Control Sample	Soluble	Solid	300.0	3424
LCSD 880-3424/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3424
890-716-1 MS	CS1-Surface	Soluble	Solid	300.0	3424
890-716-1 MSD	CS1-Surface	Soluble	Solid	300.0	3424

#### **Analysis Batch: 3486**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-11	CS6-Surface	Soluble	Solid	300.0	345
890-716-12	CS6-1'	Soluble	Solid	300.0	345
890-716-13	CS7-Surface	Soluble	Solid	300.0	345
890-716-14	CS7-1'	Soluble	Solid	300.0	345
890-716-15	CS8-Surface	Soluble	Solid	300.0	345
890-716-16	CS8-1'	Soluble	Solid	300.0	345
890-716-17	CS9-urface	Soluble	Solid	300.0	345
890-716-18	CS9-1'	Soluble	Solid	300.0	345
890-716-19	CS10-Surface	Soluble	Solid	300.0	345
890-716-20	CS10-1'	Soluble	Solid	300.0	345
890-716-21	CS11-Surface	Soluble	Solid	300.0	345
890-716-22	CS11-1'	Soluble	Solid	300.0	345
890-716-23	CS12-Surface	Soluble	Solid	300.0	345
890-716-24	CS12-1'	Soluble	Solid	300.0	345

Eurofins Xenco, Carlsbad

7 of 92

2

3

4

6

8

9

11

12

14

Client: EOR/Ridgeway Arizona Oil Corp
Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

### **HPLC/IC (Continued)**

### **Analysis Batch: 3486 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-25	CS13-Surface	Soluble	Solid	300.0	3451
890-716-26	CS13-1'	Soluble	Solid	300.0	3451
890-716-27	CS14-Surface	Soluble	Solid	300.0	3451
890-716-28	CS14-1'	Soluble	Solid	300.0	3451
890-716-29	CS15-Surface	Soluble	Solid	300.0	3451
890-716-30	CS15-1'	Soluble	Solid	300.0	3451
MB 880-3451/1-A	Method Blank	Soluble	Solid	300.0	3451
LCS 880-3451/2-A	Lab Control Sample	Soluble	Solid	300.0	3451
LCSD 880-3451/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3451
890-716-11 MS	CS6-Surface	Soluble	Solid	300.0	3451
890-716-11 MSD	CS6-Surface	Soluble	Solid	300.0	3451
890-716-21 MS	CS11-Surface	Soluble	Solid	300.0	3451
890-716-21 MSD	CS11-Surface	Soluble	Solid	300.0	3451

#### **Analysis Batch: 3533**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-31	CS16-Surface	Soluble	Solid	300.0	345
890-716-32	CS16-1'	Soluble	Solid	300.0	3455
890-716-33	CS17-Surface	Soluble	Solid	300.0	3455
890-716-34	CS17-1'	Soluble	Solid	300.0	3455
890-716-35	CS18-Surface	Soluble	Solid	300.0	3455
890-716-36	CS18-1'	Soluble	Solid	300.0	3455
890-716-37	CS19-Surface	Soluble	Solid	300.0	3455
890-716-38	CS19-1'	Soluble	Solid	300.0	3455
890-716-39	CS20-Surface	Soluble	Solid	300.0	3455
890-716-40	CS20-1'	Soluble	Solid	300.0	3455
890-716-41	CS21-Surface	Soluble	Solid	300.0	3455
890-716-42	CS21-1'	Soluble	Solid	300.0	3455
890-716-43	CS22-Surface	Soluble	Solid	300.0	3455
890-716-44	CS22-1'	Soluble	Solid	300.0	3455
890-716-45	CS23-Surface	Soluble	Solid	300.0	3455
890-716-46	CS23-1'	Soluble	Solid	300.0	3455
MB 880-3455/1-A	Method Blank	Soluble	Solid	300.0	3455
LCS 880-3455/2-A	Lab Control Sample	Soluble	Solid	300.0	3455
LCSD 880-3455/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3455
890-716-31 MS	CS16-Surface	Soluble	Solid	300.0	3455
890-716-31 MSD	CS16-Surface	Soluble	Solid	300.0	3455
890-716-41 MS	CS21-Surface	Soluble	Solid	300.0	3455
890-716-41 MSD	CS21-Surface	Soluble	Solid	300.0	3455

Eurofins Xenco, Carlsbad

I,

3

А

8

46

<u>11</u>

13

14

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS1-Surface

Date Collected: 05/21/21 00:00

Lab Sample ID: 890-716-1

Matrix: Solid

Date Received: 05/21/21 13:48

Batch Batch Dil Initial Final Batch Prepared

Prep Type Type Method Run Factor Amount Amount Number or Analyzed Analyst Lab

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/24/21 23:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 00:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 20:26	CH	XEN MID
_										

Client Sample ID: CS1-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 **Lab Sample ID: 890-716-2** 

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/24/21 23:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 01:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 20:41	CH	XEN MID

Client Sample ID: CS2-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/24/21 23:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 01:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 20:46	CH	XEN MID

Client Sample ID: CS2-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-4

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 00:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 01:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 21:00	CH	XEN MID

#### Lab Chronicle

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS3-Surface

Lab Sample ID: 890-716-5

Matrix: Solid

**Matrix: Solid** 

XEN MID

XEN MID

**Matrix: Solid** 

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 00:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 02:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.67 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 21:05	CH	XEN MID

Client Sample ID: CS3-1'

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Soluble

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Batch

Туре

Prep

Prep

Analysis

Analysis

Analysis

Analysis

Leach

Batch

Method

5035

8021B

8015NM Prep

8015B NM

DI Leach

300.0

300.0

Initial

Amount

5.00 g

5 mL

10.02 g

5.03 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

3424

3485

3485

Dil

1

1

1

Factor

Run

Batch	Prepared		
Number	or Analyzed	Analyst	Lab
3392	05/24/21 09:50	KL	XEN MID
3386	05/25/21 00:55	KL	XEN MID
3444	05/25/21 08:49	DM	XEN MID
3440	05/26/21 02:40	AJ	XEN MID

CH

Lab Sample ID: 890-716-7

05/24/21 13:48 SC

05/26/21 21:15 CH

05/26/21 21:10

Lab Sample ID: 890-716-6

Client Sample ID: CS4-Surface

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 01:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 03:01	AJ	XEN MID
Soluble	Leach	DLLeach			5.03 a	50 ml	3424	05/24/21 13:48	SC	XEN MID

Client Sample ID: CS4-1'

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 01:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 03:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 21:20	CH	XEN MID

Eurofins Xenco, Carlsbad

XEN MID Lab Sample ID: 890-716-8

Matrix: Solid

### **Lab Chronicle**

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Job ID: 890-716-1

Client Sample ID: CS5-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-9

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 01:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 03:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 21:25	CH	XEN MID

Client Sample ID: CS5-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 02:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 04:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3424	05/24/21 13:48	SC	XEN MID
Soluble	Analysis	300.0		1			3485	05/26/21 21:30	CH	XEN MID

Client Sample ID: CS6-Surface

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-11

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 03:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 04:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 22:09	CH	XEN MID

Client Sample ID: CS6-1'

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Lab	Sample	ID:	890-716-12
			Matrixy Calid

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 03:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 05:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 22:24	CH	XEN MID

Job ID: 890-716-1

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS7-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-13

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 04:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 05:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 22:29	CH	XEN MID

Client Sample ID: CS7-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 04:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 05:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 22:33	CH	XEN MID

Client Sample ID: CS8-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-15

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 05:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 06:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 22:38	CH	XEN MID

Client Sample ID: CS8-1'

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-16 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 05:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 06:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 22:53	CH	XEN MID

Job ID: 890-716-1

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS9-urface

Lab Sample ID: 890-716-17

Matrix: Solid

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 05:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 06:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3451	05/25/21 10:02	SC	XEN MID

Lab Sample ID: 890-716-18

05/26/21 22:58 CH

3486

Matrix: Solid

XEN MID

Client Sample ID: CS9-1' Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Analysis

300.0

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 06:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 07:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:03	CH	XEN MID

Client Sample ID: CS10-Surface Lab Sample ID: 890-716-19

Date Collected: 05/21/21 00:00 **Matrix: Solid** Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 06:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 07:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:08	CH	XEN MID

Client Sample ID: CS10-1' Lab Sample ID: 890-716-20

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3392	05/24/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3386	05/25/21 06:43	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3444	05/25/21 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3440	05/26/21 07:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:13	CH	XEN MID

Eurofins Xenco, Carlsbad

**Matrix: Solid** 

#### Lab Chronicle

Client: EOR/Ridgeway Arizona Oil Corp

Job ID: 890-716-1

Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS11-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-21

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 23:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 00:12	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3451	05/25/21 10:02	SC	XEN MID

3486

Client Sample ID: CS11-1'

Analysis

300.0

Soluble

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-22

05/26/21 23:18 CH

Matrix: Solid

XEN MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 23:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 01:15	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:32	CH	XEN MID

Client Sample ID: CS12-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-23 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 23:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 01:37	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:37	CH	XEN MID

Client Sample ID: CS12-1'

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Lab	Sample	ID:	890-716-24
			Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 00:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 01:57	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:52	CH	XEN MID

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS13-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-25

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 00:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 02:19	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/26/21 23:57	CH	XEN MID

Client Sample ID: CS13-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-26

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 00:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 02:40	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/27/21 00:02	CH	XEN MID

Client Sample ID: CS14-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-27

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 01:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 03:01	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/27/21 00:07	CH	XEN MID

Client Sample ID: CS14-1'

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Lab Sample	ID: 890-716-28
	Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 01:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 03:22	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/27/21 00:11	CH	XEN MID

Job ID: 890-716-1

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS15-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-29

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 01:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 03:43	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/27/21 00:16	CH	XEN MID

Client Sample ID: CS15-1'

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-30

Lab Sample ID: 890-716-31

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3390	05/24/21 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/25/21 02:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 04:04	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3451	05/25/21 10:02	SC	XEN MID
Soluble	Analysis	300.0		1			3486	05/27/21 00:21	CH	XEN MID

Client Sample ID: CS16-Surface

Date Collected: 05/21/21 00:00

**Matrix: Solid** Date Received: 05/21/21 13:48

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 16:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 04:46	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:00	CH	XEN MID

Client Sample ID: CS16-1'

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Lab Sai	mple ID: 890-716-3
	Matrix: Sol

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 17:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3539	05/26/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3502	05/27/21 06:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:15	CH	XEN MID

Client: EOR/Ridgeway Arizona Oil Corp

Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS17-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Job ID: 890-716-1

Lab Sample ID: 890-716-33

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.01 g 5 mL 3445 05/25/21 08:50 KL XEN MID Total/NA Analysis 8021B 5 mL 5 mL 3448 05/25/21 17:40 KL XEN MID Total/NA Prep 8015NM Prep 10.03 g 10 mL 3450 05/25/21 09:04 DM XEN MID Total/NA Analysis 8015B NM 3442 05/26/21 05:29 AM XEN MID Soluble Leach DI Leach 5 g 50 mL 3455 05/25/21 10:05 SC XEN MID

3533

1

Client Sample ID: CS17-1'

Analysis

300.0

Soluble

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-34

СН

05/27/21 01:20

**Matrix: Solid** 

XEN MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 18:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 05:50	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:25	CH	XEN MID

Client Sample ID: CS18-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-35

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 18:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 06:11	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:30	CH	XEN MID

Client Sample ID: CS18-1'

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Lab	Sample	ID:	890-716-36
			Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 18:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 06:32	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:44	CH	XEN MID

05/25/21 10:05 SC

05/27/21 01:49 CH

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS19-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-37

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 19:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 06:53	AM	XEN MID

5.02 g

50 mL

3455

3533

Client Sample ID: CS19-1'

Leach

Analysis

DI Leach

300.0

Soluble

Soluble

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48 Lab Sample ID: 890-716-38

Matrix: Solid

XEN MID

XEN MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 19:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 07:14	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:54	CH	XEN MID

Client Sample ID: CS20-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-39

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 19:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 07:36	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:59	CH	XEN MID

Client Sample ID: CS20-1'

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

Lab	Sample	ID:	890-716-40
			Matrix: Calid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3445	05/25/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3448	05/25/21 20:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3450	05/25/21 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3442	05/26/21 07:57	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 02:04	CH	XEN MID

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14

Client Sample ID: CS21-Surface

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

Lab Sample ID: 890-716-41

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3389	05/24/21 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3388	05/25/21 06:54	MR	XEN MID
Total/NA	Prep	5035			5.03 g	5 mL	3457	05/25/21 10:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3460	05/25/21 22:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3429	05/24/21 16:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3438	05/25/21 20:45	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 02:09	CH	XEN MID

Client Sample ID: CS21-1' Lab Sample ID: 890-716-42

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	3389	05/24/21 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3388	05/25/21 07:15	MR	XEN MID
Total/NA	Prep	5035			5.01 g	5 mL	3457	05/25/21 10:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3460	05/25/21 22:45	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3429	05/24/21 16:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3438	05/25/21 21:06	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 02:23	CH	XEN MID

Client Sample ID: CS22-Surface Lab Sample ID: 890-716-43 **Matrix: Solid** 

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3389	05/24/21 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3388	05/25/21 07:35	MR	XEN MID
Total/NA	Prep	5035			5.02 g	5 mL	3457	05/25/21 10:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3460	05/25/21 23:10	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3429	05/24/21 16:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3438	05/25/21 21:28	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 02:28	CH	XEN MID

Client Sample ID: CS22-1' Lab Sample ID: 890-716-44

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3389	05/24/21 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3388	05/25/21 07:56	MR	XEN MID

Eurofins Xenco, Carlsbad

**Matrix: Solid** 

Client Sample ID: CS22-1'

Lab Sample ID: 890-716-44

Lab Sample ID: 890-716-46

**Matrix: Solid** 

Matrix: Solid

Date Collected: 05/21/21 00:00 Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3457	05/25/21 10:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3460	05/25/21 23:36	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3429	05/24/21 16:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3438	05/25/21 21:49	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 02:43	CH	XEN MID

Client Sample ID: CS23-Surface

Lab Sample ID: 890-716-45 Date Collected: 05/21/21 00:00 **Matrix: Solid** 

Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3389	05/24/21 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3388	05/25/21 08:16	MR	XEN MID
Total/NA	Prep	5035			5.06 g	5 mL	3457	05/25/21 10:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3460	05/26/21 00:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3429	05/24/21 16:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3438	05/25/21 22:11	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 02:48	CH	XEN MID

Client Sample ID: CS23-1'

Date Collected: 05/21/21 00:00

Date Received: 05/21/21 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	3389	05/24/21 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3388	05/25/21 08:36	MR	XEN MID
Total/NA	Prep	5035			5.07 g	5 mL	3457	05/25/21 10:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3460	05/26/21 00:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3429	05/24/21 16:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3438	05/25/21 22:32	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 02:53	CH	XEN MID

**Laboratory References:** 

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

### **Accreditation/Certification Summary**

Client: EOR/Ridgeway Arizona Oil Corp Job ID: 890-716-1

### Project/Site: Mizar 11 Fed Com 14

#### Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	P	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-20-21	06-30-21
The following analytes the agency does not o		ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for wh
Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

### **Method Summary**

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Job ID: 890-716-1

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
00.0	Anions, Ion Chromatography	MCAWW	XEN MID
035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
I Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

#### **Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

4

5

7

8

11

12

16

14

### **Sample Summary**

Client: EOR/Ridgeway Arizona Oil Corp Project/Site: Mizar 11 Fed Com 14 Job ID: 890-716-1

2

Lab Sample ID	Client Sample ID  CS1-Surface	Matrix	Collected	Received	Asset ID
890-716-1 890-716-2	CS1-1'	Solid Solid	05/21/21 00:00 05/21/21 00:00	05/21/21 13:48 05/21/21 13:48	
890-716-3				05/21/21 13:48	
	CS2-Surface	Solid	05/21/21 00:00 05/21/21 00:00		
890-716-4	CS2-1'	Solid		05/21/21 13:48	
890-716-5	CS3-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-6	CS3-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-7	CS4-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-8	CS4-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-9	CS5-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-10	CS5-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-11	CS6-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-12	CS6-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-13	CS7-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-14	CS7-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-15	CS8-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-16	CS8-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-17	CS9-urface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-18	CS9-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-19	CS10-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-20	CS10-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-21	CS11-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-22	CS11-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-23	CS12-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-24	CS12-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-25	CS13-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-26	CS13-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-27	CS14-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-28	CS14-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-29	CS15-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-30	CS15-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-31	CS16-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-32	CS16-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-33	CS17-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-34	CS17-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-35	CS18-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-36	CS18-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-37	CS19-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-38	CS19-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-39	CS20-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-40	CS20-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-41	CS21-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-42	CS21-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-43	CS22-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-44	CS22-1'	Solid	05/21/21 00:00	05/21/21 13:48	
		0	33.21.21.30.00	35.221 15.40	

Solid

Solid

CS23-Surface

CS23-1'

890-716-45

890-716-46

Page 84 of 92



**Environment Testing** Xenco

### **Chain of Custody**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order	No:	

					Hobi	os, NM (	575) 39	2-755	0, Car	Isbad, N	M (575)	988-319	99				www	xence	o.com	Page /	of
Project Manager:	Tom B	ynun	2		Bill to: (if differe	Bill to: (if different) Deven Energy					Work Order Comments										
Company Name:	PIMA				Company Nam	ompany Name:						╛	Program: UST/PST PRP Brownfields RRC Superfund								
Address:	1601 IV	1. Tur	ner 8+		Address:	Address:							State of Project:								
City, State ZIP:	Hobbs				City, State ZIP										Reporting:	Level II	Le	vel III	☐ PS	T/UST 🗌 TRRP	Level IV
Phone:				Email:											Deliverable	s: EDI			ADaP	T Other:	
Project Name:	Parkway 1	West	SWO1	Turn	Around							ANAL	YSIS I	REQ	UEST					Preserva	tive Codes
Project Number:	The state of the	7.07		Routine	Rush	Pres.			Т											None: NO	DI Water: H <sub>2</sub> O
Project Location:				Due Date:																Cool: Cool	MeOH: Me
Sampler's Name:				TAT starts th	e day received by			-	+-		+	-	-+			<b>†</b>		_		HCL: HC	HNO <sub>3</sub> : HN
PO #:				the lab, if red	ceived by 4:30pm	δ						1	1							H₂SO₄: H₂	NaOH: Na
SAMPLE RECE	IPT Temp	Blank:	Yes No	Wet Ice:	Yes No	Parameters		١,				111		WW			N			H₃PO₄: HP	
Samples Received	Intact: Yes	ter ID:	NIM-W	ara E	1	17			1	- 11		WH						NaHSO₄: NABI	1		
Cooler Custody Sea							1	N	1			W		WW		MW.	1			Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> . NaSC	
Sample Custody Se	als: Yes N	N/A			24.4	4	ď.	1	\	1		111 89	90-716	Cha	in of Custo	dy				Zn Acetate+Na NaOH+Ascorbi	
Total Containers:			Corrected 7	emperature:	24.2		K	6	) [							1		1	1	NaOH+Ascolbi	t Acid. SAI C
Sample Ide	entification	Matrix	Date Sampled	Time Sampled	Depth	# of Cont		Y												Sample	Comments
CS1 - S	surface	Soul	5/21/21		G											<u> </u>	Ĺ		<u> </u>	ļ	
CS1 -	1.						Ш		Ш							↓	L		-		
CS2-	Surface							Ш	Ш							ļ	<u> </u>		-	<u> </u>	
C52-1	<u>'</u>						Ш	Ш	Ш							-	ļ	ļ	<u> </u>	<u> </u>	
CS3-5	Surface						Ш		Ц							↓	<u> </u>	<u> </u>	↓	<u> </u>	
C53-1								Ш	Ш										<u> </u>	<u> </u>	
CS4-5	votace								Ш							<u> </u>			<u> </u>		
C54-1									$\sqcup$		<u> </u>					ļ		_	<u> </u>		
C35-50	rface							Ш	$\sqcup$							↓	<u> </u>	<u> </u>	<u> </u>	ļ	
C55-1	١										$\perp$					1		<u> </u>		<u> </u>	
Total 200.7 / 6	010 200.8 / 6	3020:	81	RCRA 13P	PM Texas 11															Na Sr Ti Sn	
0:!- 14-15!/->				TOLDIO		1776	CTS A	a Da	Do	C4 C	r Co	Cu Di	Mn I	Ma	Ni Sa Aa	TILL		Ha:	1631	/ 245 1 / 7470	/7471

<del>TCLP / 3PLP 6010</del>: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (8ignature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
recosteun C.	Cros Ceurs	5-21-21 134	8		
3	- V		4		
5			6		Period Date: 08/25/2020 Per. 2020

eurofins

Page 85 of 92

**Environment Testing** 

# **Chain of Custody**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:
----------------

															_				www.	xenco	.com	Page	<u> </u>
Project Manager:	١ ١				Bill to: (if	differen	t)								_				Wo	rk Or	der C	omments	
Company Name:	29 A				Compan	y Name	e:									Progr	am: U	ST/PS	T 🔲 PI	RP[] E	Brown	nfields RRC	Superfund [
Address:					Address	:										State of Project:							
City, State ZIP:					City, Sta	te ZIP:										Reporting: Level II 🗌 Level III 🗍 PST/UST 🗍 TRRP 📗 Level IV							Level IV
Phone:				Email:												Delive	rables	: EDD		Α	DaPT	Other	
Project Name:				Turn	Around								ANAL	YSIS	REQ	UEST						Preserva	tive Codes
Project Number:				Routine	Rush		Pres. Code															None: NO	DI Water: H₂O
Project Location:				Due Date:																		Cool: Cool	MeOH: Me
Sampler's Name:				TAT starts th						├	┼								$\neg$			HCL: HC	HNO <sub>3</sub> : HN
PO #:				the lab, if red	eived by 4	:30pm	e e		1	1		1			·		ļ			- 1		H₂S0₄: H₂	NaOH: Na
SAMPLE RECEIP	T Temp 1	Blank:	Yes No	Wet Ice:	Yes	No	Parameters							1						- 1		H₃PO₄: HP	
Samples Received Inta	ct: Yes	No	Thermome	er ID.			I E	17	~	1				1						1		NaHSO₄: NABI	S
Cooler Custody Seals:	Yes No	N/A	Correction	Factor			] &	14	N	1	1											Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSC	)3
Sample Custody Seals:	Yes No	N/A	Temperatu	e Reading:				13	11	1	VI .											Zn Acetate+Na	OH: Zn
Total Containers:			Corrected 7	emperature:					100	$i_{j}$								ı				NaOH+Ascorbi	c Acid: SAPC
Sample Identif	ication	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		'			)											Sample	Comments
CS6-50	rface	Soil	5/21/21			6																	
CS6-1	1																						
C\$7-50	rfuel																						
CS7-1	t						Ш	Ц															
CS8-50	fare									Ш	<u> </u>												
C38-11									Ш			<u> </u>											
C59-50	rface																						
cs9-1'							П	П															
C510-Sn								П	П	П													
C\$10-1						П	П												I				
Total 200.7 / 6010		:020·	ΩI	2CRA 13P	PM Tex	(as 11	AI S	Sh As	Ba	Re F	Cd (	Ca Cr	Co (	Cu Fe	Pb	Ma N	In Mo	Ni F	Se	Aa Si	iO <sub>2</sub> N	la Sr Tl Sn l	J V Zn
Circle Method(s) and				-TGLP/SI																		245.1 / 7470	
			200			o. 0111		J. /					<del> · ·</del>										

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	eleastean C.	( we cutto	5-21-21 1348	2		
<b>1</b> 3				4		
5				6		Data 09/15/2019 Per 2020 2

**Environment Testing** 

# **Chain of Custody**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _	
------------------	--

Project Manager:					Bill to: (if differe	ent)													rder C	comments		
Company Name:		,			Company Nan	ne:								Progr	am: US	T/PST	- P	RP[]	Brown	nfields RRC	Superfund	
Address:		AT		/	Address:						_				of Proje							
City, State ZIP:	04	<u>`</u>			City, State ZIP	:								Reporting: Level II Level III PST/UST TRRP Level IV								
Phone:	*			Email:										Delive	rables:	EDD		A	ADaPT	Other	:	
Project Name:		/		Tuer	Around	Ţ.					ΔΙ	NALYSI	S RFC	UEST						Preserva	ative Codes	
Project Number:				Routine	Rush	Pres.		T	T				T			$\neg \top$				None: NO	DI Water: H <sub>2</sub> O	
				Due Date:		Code		1	-			_	†	$\Box$		寸				Cool: Cool	MeOH: Me	
Project Location: Sampler's Name:					e day received by							_	-	-		$\dashv$				HCL: HC	HNO <sub>3</sub> : HN	
PO#:					ceived by 4:30pm												ĺ			H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT	Temp B	lank.	Yes No	Wet Ice:	Yes No	Parameters			İ											H₃PO₄: HP	İ	
Samples Received Intac			Thermome		100 110	- La	١.	17	1											NaHSO₄: NABI	s	
Cooler Custody Seals:	Yes No					- a	1	W	$ \mathbf{x} $											Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaS0	D <sub>3</sub>	
Sample Custody Seals:	Yes No			re Reading:	1		1 V	150	100			ļ	1		- 1					Zn Acetate+Na	OH: Zn	
Total Containers:			Corrected	Temperature:			$\mathcal{X}$	0	V			İ			- 1					NaOH+Ascorb	ic Acid: SAPC	
Sample Identific	cation	Matrix	Date Sampled	Time Sampled	Depth Grab	1	K	1/1										_		Sample	Comments	
CS11-Son	rface	Soil	5/21/2		6	1		П								_						
CS11-1						11			Ш				↓_	$\sqcup$		_						
CS12-50	rface			<u> </u>		11	$\sqcup \bot$	$\sqcup L$	$\coprod$				<u> </u>			_						
C512-1	1						$\coprod$		Ш													
C813-Su	rface			<u> </u>			Ш	Ш	Ц													
CS13-1	,					Ш	Ш	Ш														
CS14-50	rface								Ш													
CS14-1	1					Ш	Ш									_						
CS15-Sort	Face							$\Pi$														
CS15-1'								Ш	Щ													
Total 200.7 / 6010	200.8 / 60	020:	8	RCRA 13P	PM Texas 1	I Al S	b As	Ва	Ве В	Cd Ca	Cr C	o Cu F	e Pb	Mg M	in Mo	Ni K	Se	Ag S	SiO <sub>2</sub> N	Na Sr TI Sn	U V <i>Z</i> n	
Circle Method(s) and I	Metal(s) to be	analy			PLP 6010: 8F													Hg: 1	631/	245.1 / 7470	/ 7471	
		===										ad aubaan							1			

of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Velewstram C.	Clas Cuts	5-21-21 1347			
3			4		
5			6		2020 Barrell 2020 Barrell 2020

**Environment Testing** 

# **Chain of Custody**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No	
---------------	--

			www.xenco.com	Page of
Project Manager:	Bill to: (if different	rent)	Work Order (	Comments
Company Name:	Company Name	me:	Program: UST/PST PRP Brown	nfields RRC Superfund
Address:	Address:		State of Project:	
City, State ZIP:	City, State ZIP:	P:	Reporting: Level II D Level III PS	T/UST TRRP Level IV
Phone: En	nail:		Deliverables: EDD ADaP	T Other:
Project Name:	Turn Around	ANALYSIS REG	UEST	Preservative Codes
Project Number: Routi		Pres. Code		None: NO DI Water: H <sub>2</sub> O
Project Location: Due Da	ite:			Cool: Cool MeOH: Me
Sampler's Name: TAT star	rts the day received by if received by 4:30pm			HCL: HC HNO <sub>3</sub> : HN H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na
SAMPLE RECEIPT   Temp Blank: Yes No   Wet lo	e: Yes No	Parameters		H₃PO₄: HP
Samples Received Intact: Yes No Thermometer ID:				NaHSO₄: NABIS
Cooler Custody Seals: Yes No N/A Correction Factor:	401			Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>
Sample Custody Seals: Yes No N/A Temperature Readin	ig: J		1 1 1 1 1 1	Zn Acetate+NaOH: Zn
Total Containers: Corrected Temperati	ure:			NaOH+Ascorbic Acid: SAPC
Sample Identification Matrix Date Sampled Sample	Donth	hb/ # of Cont		Sample Comments
CS/6-Surface Soil 5/21/21	61			
CS16-1'				
C517-Surface				
C317-1'				
CS18-Sinface				
c518-1'				
CS19-Surface				
C319-11				
CS20-Suface				
CS20-1'				
	13PPM Texas 11	I1 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb	Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> I	Na Sr Tl Sn U V Zn

Hg: 1631 / 245.1 / 7470 / 7471 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U

of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Retinguished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
alousteum .	( we ( wh	5-21-21 1348	2		
3			4		
5			6		

Page 88 of 92

eurofins

Xenco

**Environment Testing** 



# **Chain of Custody**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work	Order	No:		 	

Project Manager:					Bill to: (if	differen	nt)							7 [						Comments			
Company Name:					Compar	y Nam									Program: UST/PST PRP Brownfields RRC Superfund								
Address:					Address			-	2	i				State of Project:									
City, State ZIP:					City, Sta	City, State ZIP:							]  F	Reporting: Level II Level III PST/UST TRRP Level IV									
Phone:	/			Email:											elivera	bles: E	DD 🗆		ADaP	T Other:			
Project Name:				Turr	Around							ANAL	YSIS F	REQU	EST					Preserva	ative Codes		
Project Number:				Routine	Rush	1	Pres. Code													None: NO	DI Water: H₂O		
Project Location:				Due Date:													1	1		Cool: Cool	MeOH: Me		
Sampler's Name:				TAT starts th			-		+-	+										HCL: HC	HNO₃: HN		
PO #:			т	the lab, if re	ceived by 4	:30pm	22							- 1	1					H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>	NaOH: Na		
SAMPLE RECEIPT	Temp 8	Blank:	Yes No	Wet-Ice:	Yes	No	Parameters							1						H₃PO₄: HP			
Samples Received Intact:	Yes	No	Thermom	eter ID:	4/		arar										- (			NaHSO₄: NABI			
Cooler Custody Seals:	Yes No	N/A	Correction	Factor:	٧		1 6		l											Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaS0	_		
Sample Custody Seals:	Yee No	N/A	Temperat	ure Reading:						) 1				-			Ì		1	Zn Acetate+Na			
Total Containers:			Corrected	Temperature:			1		ļ											NaOH+Ascorb	ic Acid: SAPC		
Sample Identifica	tion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp														Sample	Comments		
CS21-Sun	luce	Soil	5/21/2	1		G	1										1	<u> </u>					
cs21-1'																							
CS 22-Su	force																						
CS22 - 1																							
CS23-S		П																					
csa3-1		П																					
		,																					
Total 200.7 / 6010	200.8 / 6	020:		BRCRA 13P	PM Tex	(as 11	AI S	Sb As B	a Be B	Cd C	a Cr	Co C	u Fe	Pb M	lg Mn	Mo N	i K Se	Aa	SiO <sub>2</sub> I	Na Sr Tl Sn	U V 7n		
Circle Method(s) and M	<del>etal(s) to b</del>	e anaiy		TCLP/SI																245.1 / 7470			

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinguished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
eleastean C.	Crop City	5-21-21 1348	2		
			4		
;			6		1 Date 0005 0000 Bay 2

5/28/2021

#### **Eurofins Xenco, Carlsbad**

1089 N Canal St. Carlsbad, NM 88220

# **Chain of Custody Record**



eurofins | Environment Testing America

Phone 575-988-3199 Fax: 575-988-3199																						
Client Information (Sub Contract Lab) Client Contact:	Sampler <sup>-</sup>			Ta	·	or, Holly								er Tra	cking I	No(s)				COC No: 890-232.1		
Shipping/Receiving	Phone:			E-M hol	ly taylo									e of Origin: w Mexico						Page: Page 1 of 6		
Company Eurofins Xenco						Accreditations Required (See note) NELAP - Texas													- 1	lob #: 390-716-1		
Address. 1211 W Florida Ave, .	Due Date Request 5/27/2021	ted			Analysis Requested									hat						reservation Codes	3	
City Midland	TAT Requested (d			Π	T		lary	313	I C	ues	lea			T			B NaOH I	M - Hexane N - None O AsNaO2				
State, Zip: TX, 79701																			E	D - Nitric Acid F E - NaHSO4 (	P Na2O4S Q Na2SO3	
Phone <sup>.</sup> 432-704-5440(Tel)	PO#						۰	H H												G Amchlor S	R - Na2S2O3 S H2SO4	
Email	WO #:					او	Chloric	P Full											l J	lice ( JDIWater \	T TSP Dodecah U - Acetone V MCAA	nydrate
Project Name: Mizar 11 Fed Com 14	Project #: 89000051				ا	ž ž	EACH	S Pre										foing			W pH 4-5 Z other (specify	y)
Site:	SSOW#:				dma	Calc BTEX	l g	16NN										j		Other <sup>.</sup>		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solld, O=waste/oll, BT=Tissue, A=Af	Field Filtered S	Perform MS/MR 8021B/6036FP_C	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep Full										Total Number		Special Ins	tructions/No	ıte:
		><	Preserva	ation Code:	X	X T		N.					ricajang E J		Sec. ale			7				
CS1-Surface (890-716-1)	5/21/21	Mountain		Solid	П	х	×	x						\$ 800-011/29					1		An harry have been Serviced.	
CS1-1' (890-716-2)	5/21/21	Mountain		Solid	II	X	×	×									寸		1			
CS2-Surface (890-716-3)	5/21/21	Mountain		Solid	11	X	x	x			T							1	1			
CS2-1' (890-716-4)	5/21/21	Mountain		Solid	T	X	×	x			T						$\top$		1			
CS3-Surface (890-716-5)	5/21/21	Mountain		Solid	T	×	×	х									$\neg$		1			·
CS3-1' (890-716-6)	5/21/21	Mountain		Solid	$\prod$	×	×	Х											1			
CS4-Surface (890-716-7)	5/21/21	Mountain		Solid	II	х	x	Х											1			
CS4-1' (890-716-8)	5/21/21	Mountain		Solid	П	x	X	х									1		1		<u> </u>	
CS5-Surface (890-716-9)	5/21/21	Mountain		Solid	П	х	Х	х									$\top$		1			
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LL' maintain accreditation in the State of Origin listed above for analysis/tests/matri: LLC attention immediately If all requested accreditations are current to date re	( being analyzed the	samples must b	oe shipped ba	ick to the Furo	fins Xen	ico III C.	If the laboratory does not calculate the contract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not calculate the contract laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurocc LLC.							tory does not cur ought to Eurofins	irrently s Xenco							
Possible Hazard Identification		***************************************			15						may						s are	e reta	ine	d longer than 1 i	month)	
Unconfirmed Deliverable Requested I II III IV Other (specify)	Primary Deliver	rable Rank	2		Return To Client Disposal By Lab Archive For Months  Special Instructions/QC Requirements																	
Empty Kit Relinquished by		Date	_	······································	Time Method of Shipment:																	
Polinguished by:	Date/Time:	Date		Company	111111		Piver	KJ.	_/	1/1	39/			Weth	00 01 -	•					Componi	
Relinquished by 4100 to 5 - 21	Date/Time:			Company	· · · · · · · · · · · · · · · · · · ·		eived eived		Us.				******	·		Date/	Time	4-2		WWW M	Company	
Relinquished by	Date/Time:			Company		Received by						Date/Time <sup>-</sup>							Company			
Custody Seals Intact   Custody Seal No	1												Company									
A Von A No						Cooler Temperature(s) °C and Other Remarks																

Page 90 of 92

**Eurofins Xenco, Carlsbad** 

1089 N Canal St. Carlsbad, NM 88220

## **Chain of Custody Record**

**	eurofins			
<b>D</b> 40		Envir	ronment	Testing
		Ame	rica	

Phone 575-988-3199 Fax: 575-988-3199																				,	America	
Client Information (Sub Contract Lab)	Sampler				b PM aylor, h	Holly						C	Carrie	r Trac	king l	No(s)				COC No: 890-232 3		
Client Contact:	Phone <sup>-</sup>	·	<del></del>		Mail	iony					<del></del>	-	State	of Orig	gin:					Page		
Shipping/Receiving Company				ho		ly taylor@eurofinset.com New Accreditations Required (See note)								Mex	ico					Page 3 of 6		
Eurofins Xenco						NELAP - Texas													Job #: 890-716-1			
Address 1211 W Florida Ave	Due Date Reques	ted			1	Anglysis Demosts d											Preservation Code	S				
City		AT Requested (days)																	M - Hexane	İ		
Midland State, Zip:													-	1					-	B NaOH C - Zn Acetate	N None O - AsNaO2	
TX, 79701														1						D - Nitric Acid E - NaHSO4	P Na2O4S Q - Na2SO3	
Phone:	PO #:				-11			=												F MeOH	R Na2S2O3 S H2SO4	
432-704-5440(Tel) Email	WO #:				<b>- </b> 9		ig	Full TPH											<b>*</b> ·	H Ascorbic Acid	T - TSP Dodecahyo	drate
					Į.	9	용	P F.												J - DI Water	U Acetone V MCAA	I
Project Name: Mizar 11 Fed Com 14	Project #: 89000051				اعًا	5 ×	뒿	Prep											iner.		W pH 4-5 Z other (specify)	l
Site:	SSOW#:				ᅴ쁿	3 3	=	Σ											containers	Other <sup>.</sup>		l
						G S	80/D	8016														1
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oli, BT=Tissue, A=A		Perform MS/MSD (Yes of 8021B/6036FP Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8016MOD_NM/8016NM_S_											Total Number of	Special Inc	tructions/Nata	
		><		ation Code:		$\mathbf{X}^{T}$		Ť			1990-053 1		***				4000		X	Special IIIs	tructions/Note	<del>Hadaad</del>
CS10-Surface (890-716-19)	5/21/21	Mountain	Acceptable to the second second	Solid	П	X	x	x	86 R. v 80		Estatutus I	S	See Co	on other section.	en en en en	<u> </u>		V. //. assi				-
CS10-1' (890-716-20)	5/21/21	Mountain		Solid	H	X	×	x						1					1			
CS11-Surface (890-716-21)	5/21/21	Mountain		Solid	П	×	×	x											1		*****	
CS11-1' (890-716-22)	5/21/21	Mountain		Solid		×	×	X											1			
CS12-Surface (890-716-23)	5/21/21	Mountain		Solid	П	×	×	x						7					1			
CS12-1' (890-716-24)	5/21/21	Mountain		Solid	П	X	×	×											1			
CS13-Surface (890-716-25)	5/21/21	Mountain		Solid		x	: ×	x											1			
CS13-1' (890-716-26)	5/21/21	Mountain		Solid		Х	x	х											1			
CS14-Surface (890-716-27)	5/21/21	Mountain		Solid		×	: x	x											1	,		
Note. Since laboratory accreditations are subject to change, Eurofins Xenco LLC maintain accreditation in the State of Origin listed above for analysis/tests/matrix LLC attention immediately If all requested accreditations are current to date re	places the ownershi being analyzed the turn the signed Chain	p of method ar samples must b of Custody atte	nalyte & accre be shipped ba esting to said	ditation compl ck to the Euro complicance t	liance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not current fins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.								ntly enco									
Possible Hazard Identification				*****	1	Samp	le Dis	spos	al ( A	fee i	may	be as	ses	sed i	if sa	mple	s ar	e re	tain	ed longer than 1	month)	-
Unconfirmed							Retur	n To	Clier	nt	Ĺ	Di	spos	sal By						ive For	Months	
Deliverable Requested I II III IV Other (specify)	Primary Deliver	able Rank.	2			Specia	al Inst	tructi	ons/C	QC Re	equir	emen	ts									
Empty Kit Relinquished by		Date Time.						7		//	,	/	ار	Metho	d of S	Shipm	ent:					-
Relinquished by B.ZI.2	Date/Time:			Company		2	eived	1/1/1	1							Date/	Firme:	1-2	21	(0:00.m	Company	
Relinquished by	Date/Time:			Company	ıy Re			Rederved by					Date/Time:							W/WCF /	Company	
Relinquished by	Date/Time:			Company	mpany F			Received by Date/Time						**********		Company						
Custody Seals Intact Custody Seal No						Co	Cooler Temperature(s) °C and Other Remarks															

### **Login Sample Receipt Checklist**

Client: EOR/Ridgeway Arizona Oil Corp

Job Number: 890-716-1

SDG Number:

Login Number: 716 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

### **Login Sample Receipt Checklist**

Client: EOR/Ridgeway Arizona Oil Corp

Job Number: 890-716-1

SDG Number:

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 05/24/21 10:13 AM

Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

2

Л

6

0

10

12

13

14

<6mm (1/4").

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 180278

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	180278
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
amaxwel	None	2/2/2023