

Incident ID	NAB1822127797
District RP	2RP-4900
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 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.

State of New Mexico
Oil Conservation Division

Incident ID	NAB1822127797
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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

Signature: *Wesley Mathews* Date: 1/27/2023

email: wesley.mathews@dvn.com Telephone: 575-513-8608

OCD Only

Received by: Jocelyn Harimon Date: 01/31/2023

Incident ID	NAB1822127797
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Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wes Mathews Title: EHS Professional
Signature: Wesley Mathews Date: 1/27/2023
email: wesley.mathews@dvn.com 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 and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: 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 32.635483 Longitude -104.071270
UL "D", Sec. 27, T19S, R29E
Eddy County, NM
NMOCD Ref. No. NAB1822127797

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 July 25, 2018 (Appendix C). This incident was assigned Incident ID NAB1822127797, 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 32.635483, Longitude -104.071270, 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 (Appendix A)	Constituent & Limits				
	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

NAB1822127797: On July 21, 2018, Water hauler left load line valve open spilling approximately 73 barrels (bbls) of produced water. Water released to location pad; immediately began recovering fluids. (PW: Spilled – 73 bbls, Rec. – 55 bbls, Lost – 18 bbls. 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 Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater 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	Cl mg/kg
S-1	0-6"	ND	ND	ND	ND	ND	ND	448
S-2	0-6"	ND	ND	ND	ND	ND	ND	640
S-3	0-6"	ND	ND	ND	ND	ND	ND	688
	1'	ND	ND	ND	ND	ND	ND	160
	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
	1'	ND	ND	ND	ND	ND	ND	1040
S-5	0-6"	ND	ND	ND	ND	ND	ND	1920
	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
S-13	0-6"	ND	ND	ND	ND	ND	ND	17200
	1'	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
S-15	0-6"	ND	ND	ND	23.5	ND	23.5	11000
	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
S-18	0-6"	ND	ND	ND	ND	ND	ND	10500
	1'	ND	ND	ND	ND	ND	ND	1710
	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

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (High Karst Area) <50"		
Devon Energy - Parkway West SWD #1		
Sample Date 11-23-20		
Sample ID	Depth (BGS)	Chlorides mg/kg
B-1	1	960
	2	48
	2.5	64
B-2	1	1860
	2	352
	2.5	160
B-3	1	1330
	2	1010
	2.5	624
B-4	1	240
	2	160
	2.5	320
B-5	1	160
	2	80
	2.5	96
B-6	1	3920
	2	752
	2.5	192
B-7	1	720
	2	416
	2.5	640
B-8	1	192
	2	80
	3	80
B-9	1	96
	2	192
	2.5	352
B-10	1	656
	2	368
	2.5	160
B-11	1	1380
	2	128
	2.5	96
B-12	1	224
	2	32
	2.5	48
B-13	1	320
	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

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (HIGH KARST AREA)								
Devon Energy - Parkway West SWD 1								
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	Cl 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 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 Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
DEVON ENERGY - PARKWAY WEST UNIT #1 SWD								
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, Pima returned to the site to collect confirmation samples from the remediated area. The results of this sampling event can be seen in the following data table. Figure 7 references a Confirmation Sample Map.

5-21-21 Confirmation Soil Sample Results

NMOCB Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 50')								
DEVON ENERGY - Parkway West SWD #1								
Date 5/21/21		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	CI mg/kg
CS-1	0	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
CS-2	0	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	5.68
CS-3	0	ND	ND	ND	ND	ND	ND	ND
	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
	1'	ND	ND	ND	ND	ND	ND	6.56
CS-6	0	ND	ND	ND	ND	ND	ND	15.2
	1'	ND	ND	ND	ND	ND	ND	ND
CS-7	0	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
CS-8	0	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
CS-9	0	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
CS-10	0	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
CS-11	0	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
CS-12	0	ND	0.0035	ND	ND	ND	ND	5.39
	1'	ND	ND	ND	ND	ND	ND	6.73
CS-13	0	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
CS-14	0	ND	ND	ND	ND	ND	ND	5.98
	1'	ND	ND	ND	ND	ND	ND	173
CS-15	0	ND	ND	ND	ND	ND	ND	10.4
	1'	ND	ND	ND	ND	ND	ND	5.21
CS-16	0	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	6.44
CS-17	0	ND	ND	ND	ND	ND	ND	8.27
	1'	ND	ND	ND	ND	ND	ND	ND
CS-18	0	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
CS-19	0	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
CS-20	0	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
CS-21	0	ND	ND	ND	ND	ND	ND	18.4
	1'	ND	ND	ND	ND	ND	ND	ND
CS-22	0	ND	ND	ND	ND	ND	ND	6.1
	1'	ND	ND	ND	ND	ND	ND	5.38
CS-23	0	ND	ND	ND	ND	ND	ND	ND
	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, NAB1822127797, 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 tom@pimaoil.com.

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



Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

3-Karst Map

4-Site Map

5-GeoProbe Map

6-Excavation Map-Sidewalls

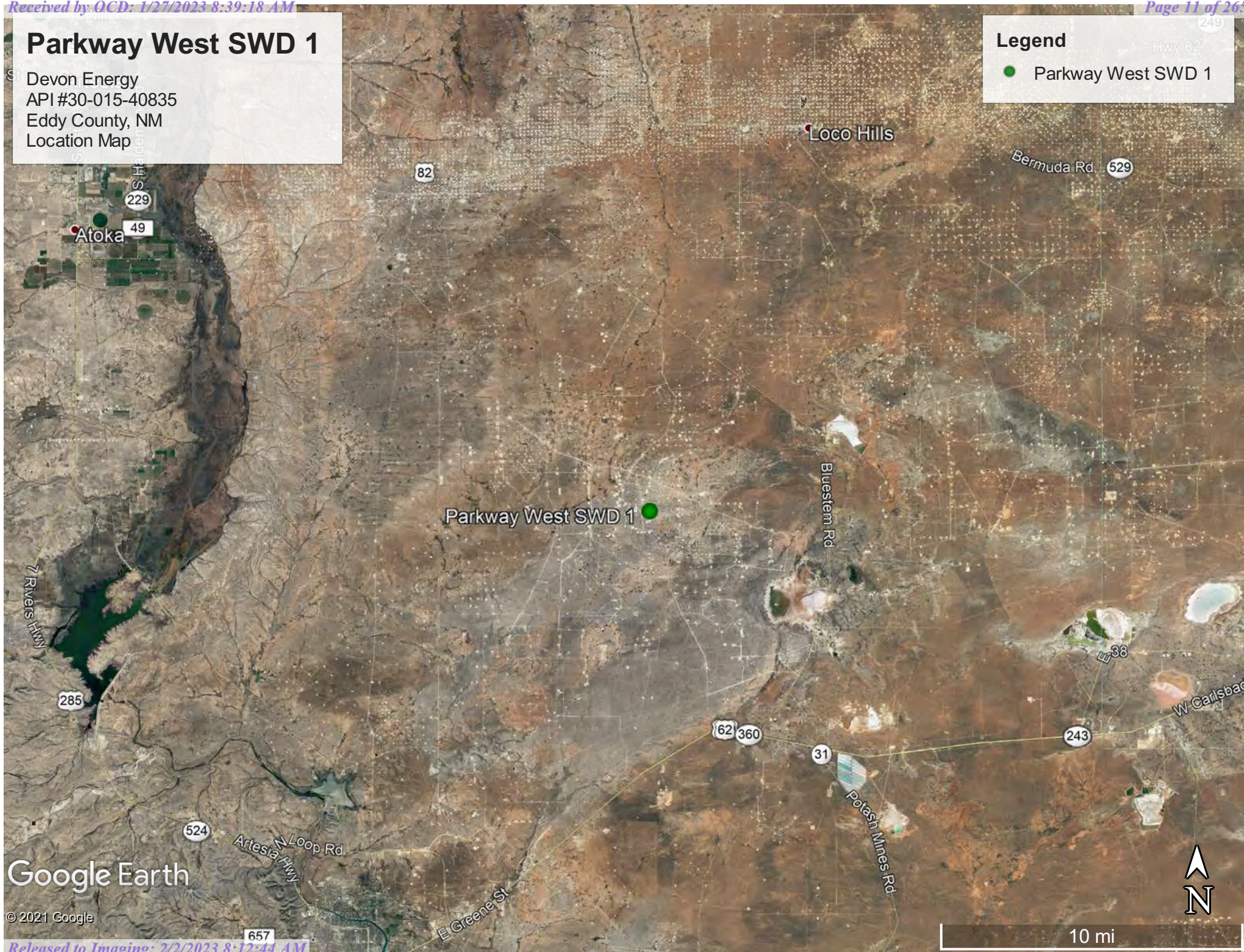
7-Confirmation Sample Map

Parkway West SWD 1

Devon Energy
API #30-015-40835
Eddy County, NM
Location Map

Legend

- Parkway West SWD 1

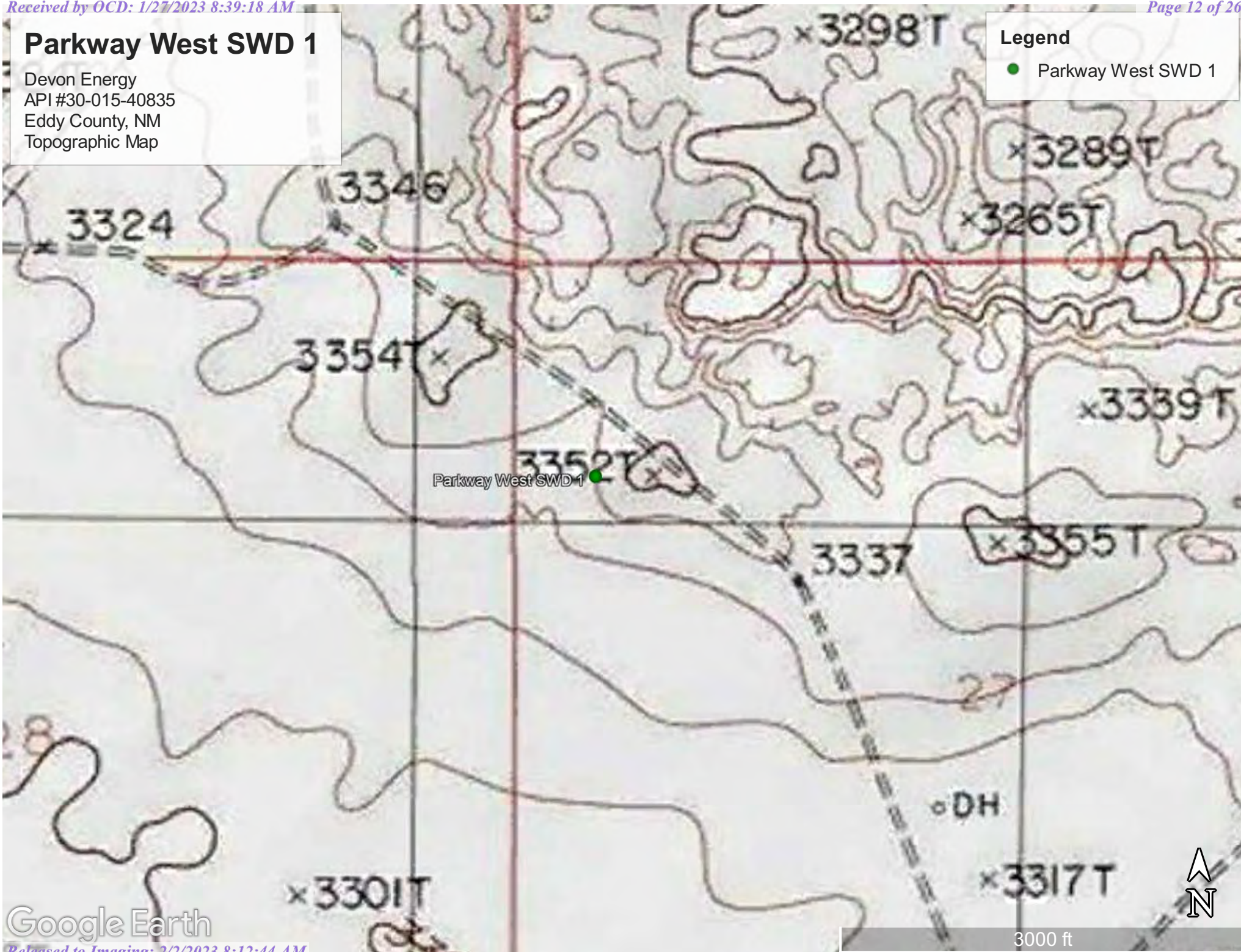


Parkway West SWD 1

Devon Energy
API #30-015-40835
Eddy County, NM
Topographic Map

Legend

● Parkway West SWD 1



Parkway West SWD 1

Devon Energy
API #30-015-40835
Eddy County, NM
Karst Map

- Legend**
- High Karst
 - Low Karst
 - Medium Karst

Parkway West SWD 1



Parkway West SWD 1

Devon Energy
API #30-015-40835
Eddy County, NM
Site Map

Legend

- Backgrounds
- Samples
- Spill Area-2 Incidents

32.635923, -104.070014

Parkway West SWD 1

CS16

CS3

CS2

CS1

CS4

CS5

CS6

CS7

CS10

CS9

CS8

CS11

CS12

CS13

CS15

CS14

CS17

CS18

CS19

CS20

CS21

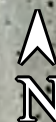
CSG1

CSG2

CSG3

Google Earth

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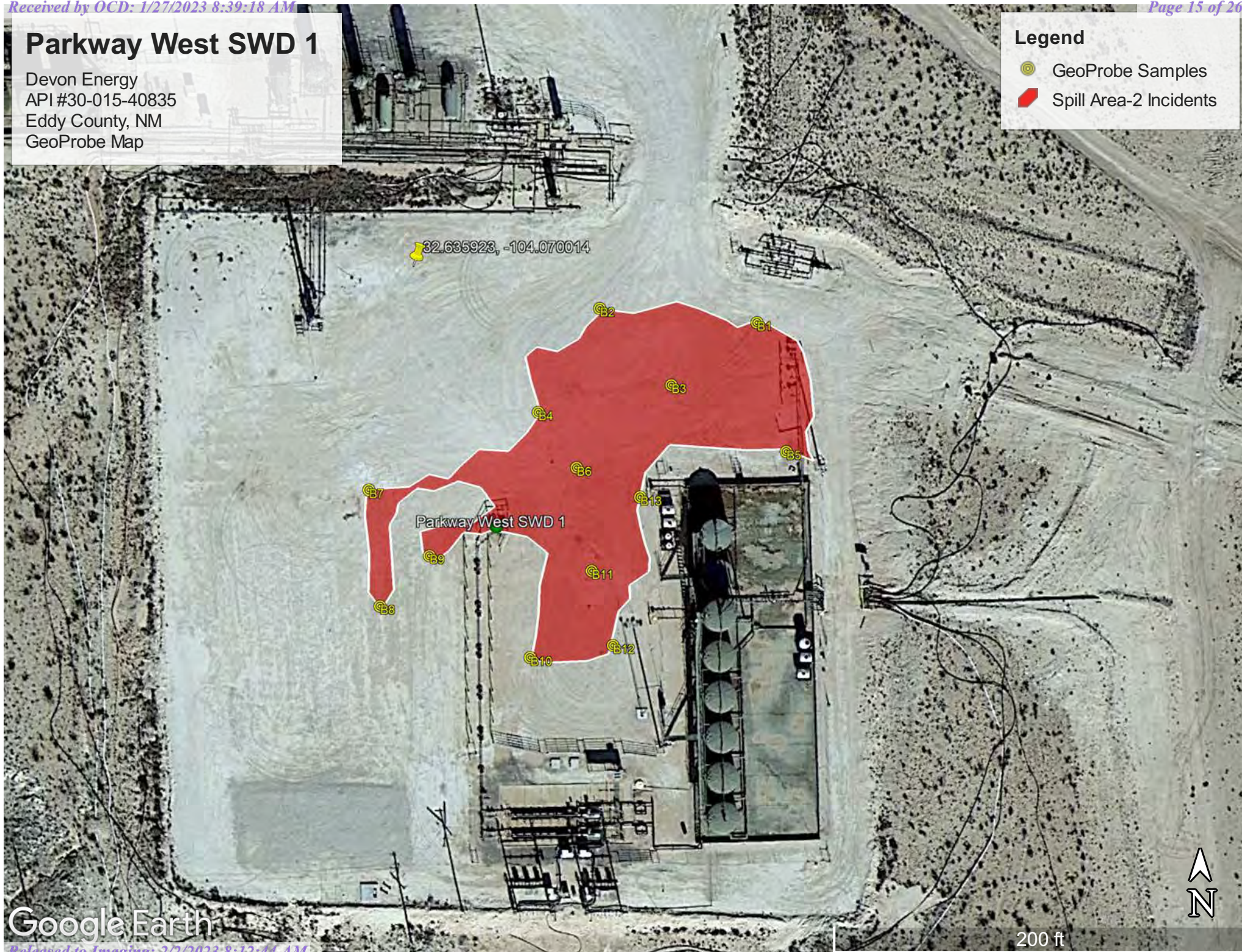
100 ft

Parkway West SWD 1

Devon Energy
API #30-015-40835
Eddy County, NM
GeoProbe Map

Legend

- GeoProbe Samples
- Spill Area-2 Incidents

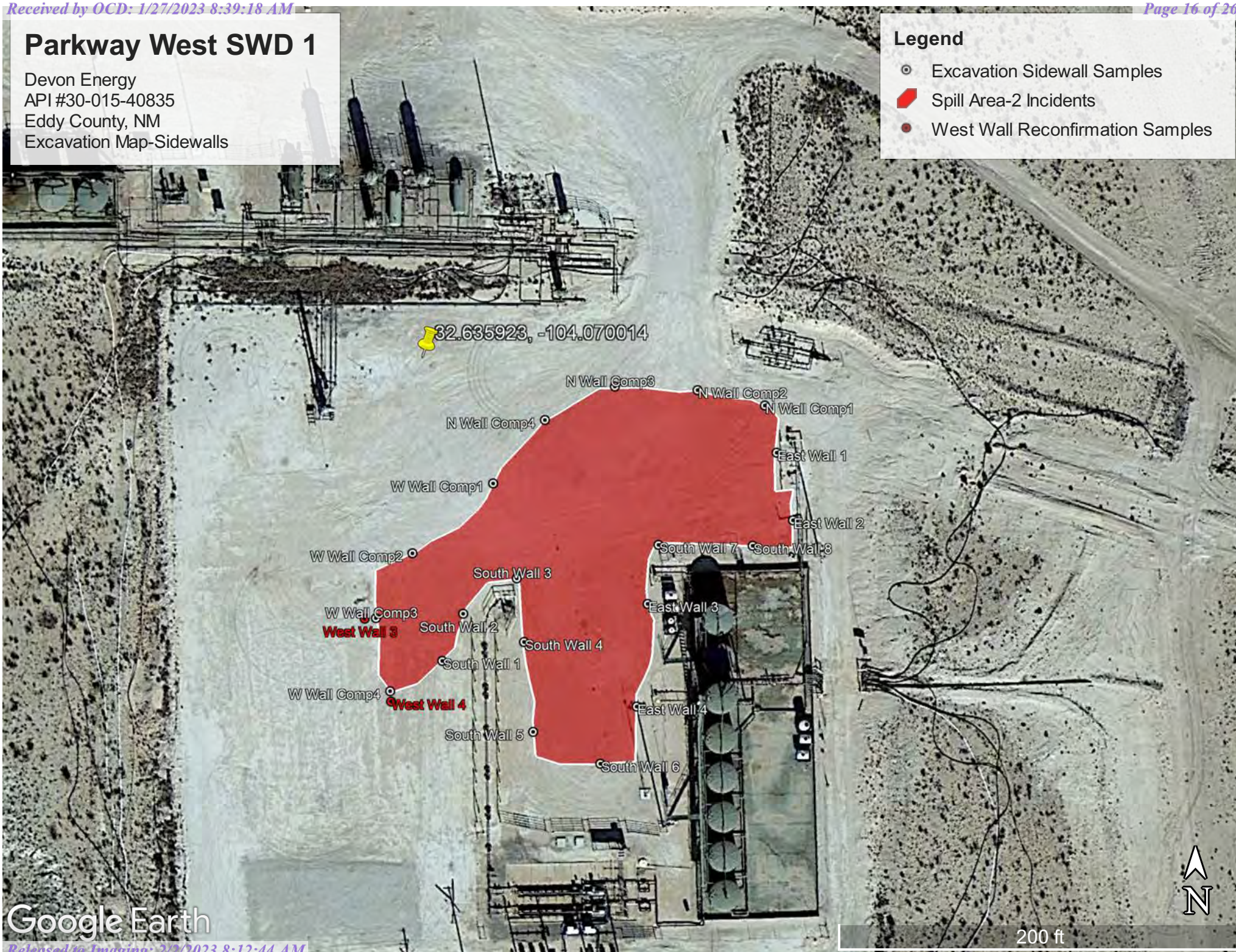


Parkway West SWD 1

Devon Energy
API #30-015-40835
Eddy County, NM
Excavation Map-Sidewalls

Legend

- Excavation Sidewall Samples
- Spill Area-2 Incidents
- West Wall Reconfirmation Samples

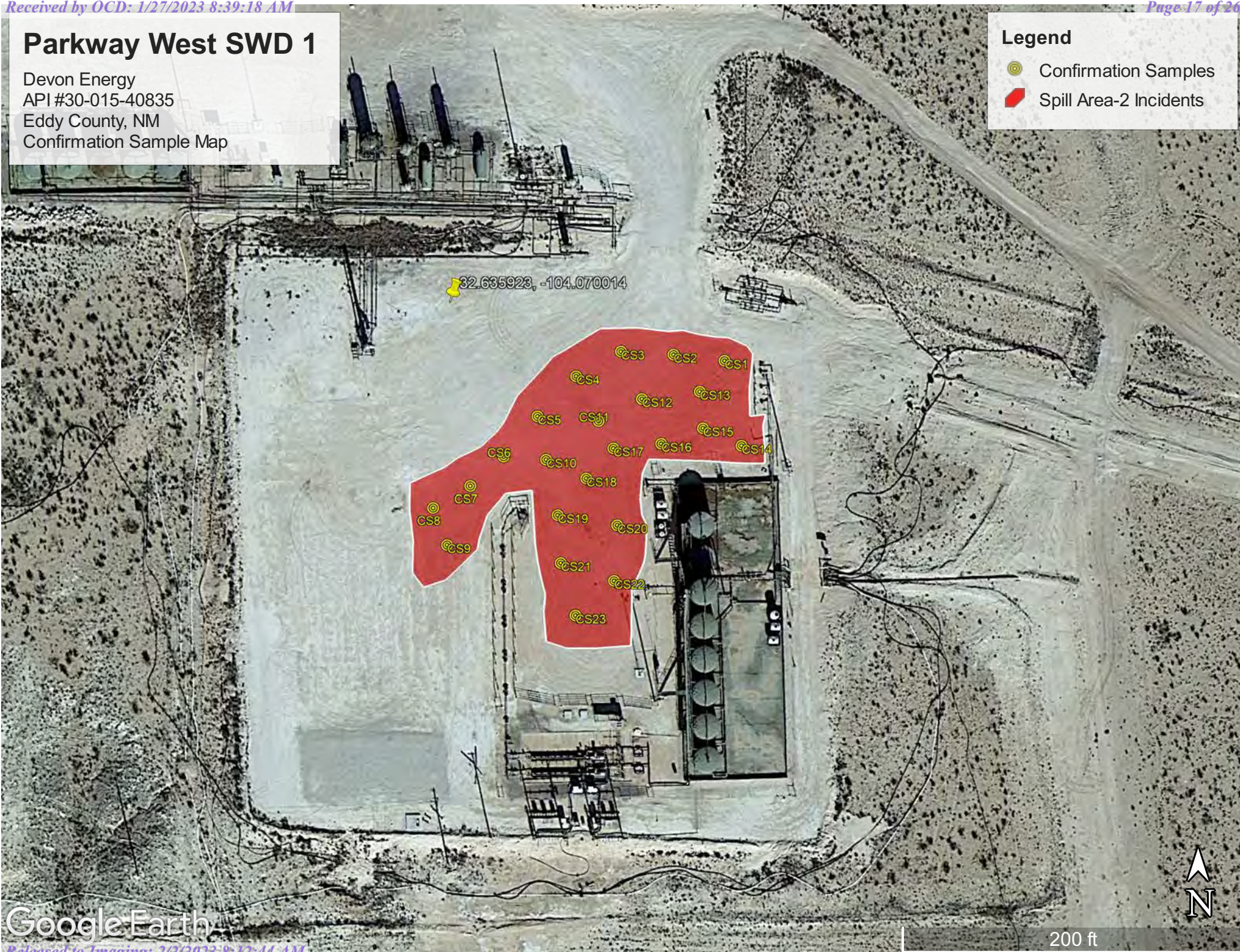


Parkway West SWD 1

Devon Energy
API #30-015-40835
Eddy County, NM
Confirmation Sample Map

Legend

- Confirmation Samples
- Spill Area-2 Incidents





Pima Environmental Services

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 Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00741		CP	ED	1	3	2	34	19S	29E	588030	3609533*	1906	230	60	170
CP 00681		CP	ED	1	1	3	34	19S	29E	587230	3609127*	2143			
CP 00698 POD1		CP	ED		3	1	03	20S	29E	587393	3608010	3263			
CP 00830 POD1		CP	LE		2	1	04	20S	29E	586118	3608193*	3277	120		
CP 00739 POD1		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:


Groundwater

Geographic Area:

United States

GO

Click to hide News 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

USGS 323900104052901 19S.29E.20.24111 RATLSNAKE

Available data for this site

Groundwater: Field measurements

GO

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.

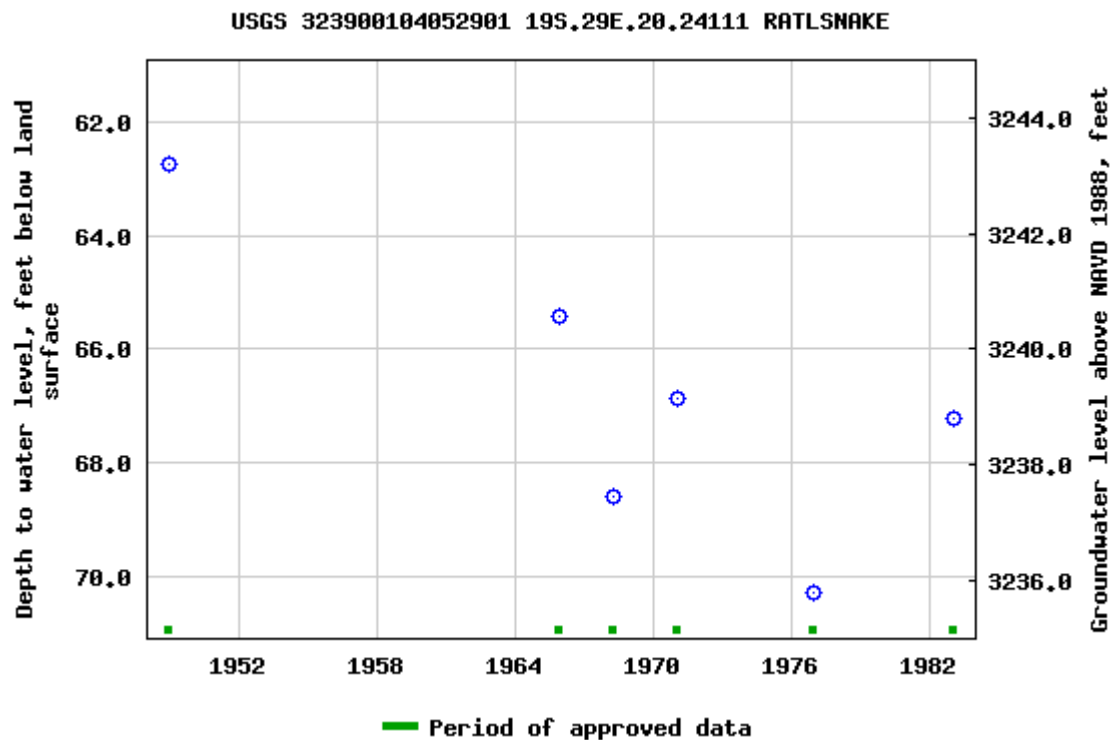
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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[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: [USGS Water Data Support Team](#)



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

0.66 0.58 nadww02

Parkway West SWD 1

Devon Energy
API #30-015-40835
Eddy County, NM
Surface Water Map

Legend

-  4.73 Miles
-  Salt Pond

Parkway West SWD 1

Salt Pond

Google Earth



2 mi



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Kimbrough-Stegall loams, 0 to 3 percent slopes---Eddy Area, New Mexico

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, tal
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

Map Unit Description: Kimbrough-Stegall loams, 0 to 3 percent slopes---Eddy Area, New Mexico

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

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

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)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

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

National Flood Hazard Layer FIRMette



104°4'30"W 32°38'23"N



Legend

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

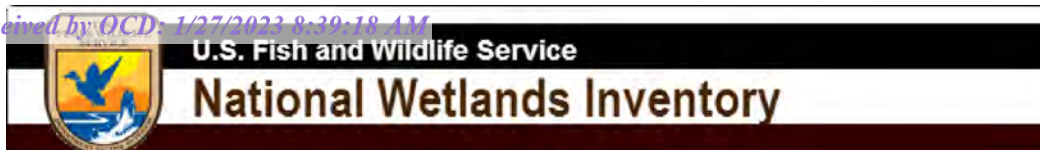
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
		NO SCREEN Area of Minimal Flood Hazard Zone X
OTHER AREAS		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
	Profile Baseline	
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

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

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

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

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.



Wetlands Map



December 16, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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



Pima Environmental Services

Appendix C

C-141 Form

48-Hour Notification

OCD Rec'd: 08/06/18

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

State of New Mexico
Energy Minerals and Natural Resources

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

NAB1822127797

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company	Contact Aaron Kidd; Foreman Technical Services
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-748-3371
Facility Name Parkway West SWD 1	Facility Type Salt Water Disposal

Surface Owner State	Mineral Owner State	API No. 30-015-40835
---------------------	---------------------	----------------------

LOCATION OF RELEASE

Unit Letter D	Section 27	Township 19S	Range 29E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	----------------

Latitude 32.635483 N Longitude -104.071270 W NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 73 BBLS	Volume Recovered 55 BBLS
Source of Release Load Line	Date and Hour of Occurrence 7/21/2018 @ 4:30 AM MST	Date and Hour of Discovery 7/21/2018 @ 4:30 AM MST
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? ENMRD Mike Bratcher and Maria Pruett	
By Whom? Brett Fuls; EHS Professional	Date and Hour OCD and BLM 7/22/2018 @ 9:33 PM MST	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Water hauler left load line valve open spilling approximately 73 barrels of produced water.

Describe Area Affected and Cleanup Action Taken.*
Water released to location pad; immediately began recovering fluids. (PW: Spilled - 73 bbls., Rec. - 55 bbls., Lost - 18 bbls.)

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

Signature: Tamala J. Robison		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Tamala J. Robison		Approved by Environmental Specialist: Maria Pruett	
Title: Field Admin Support		Approval Date: 8/7/18	Expiration Date: N/A
E-mail Address: Tamala.Robison@dmv.com		Conditions of Approval: See attached	
Date: 7/25/2018	Phone: 575-748-3371	Attached <input checked="" type="checkbox"/> <i>BP-4900</i>	

* Attach Additional Sheets If Necessary

Incident ID	NAB1822127797
District RP	2RP-4900
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 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.

Incident ID	NAB1822127797
District RP	2RP-4900
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

Signature: Wesley Mathews Date: 1/27/2023

email: wesley.mathews@dvn.com Telephone: 575-513-8608

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1822127797
District RP	2RP-4900
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wes Mathews Title: EHS Professional

Signature: Wesley Mathews Date: 1/27/2023

email: wesley.mathews@dvn.com Telephone: 575-513-8608

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

From: [Tom Pima Oil](#)
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: [Chris Jones](#); [Mathews, Wesley](#); [Sebastian Pima Oil](#)
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
580-748-1613



Pima Environmental Services, LLC

From: tom@pimaoil.com
To: "Maxwell, Ashley, EMNRD"
Cc: "Woodall, Dale"; "Mathews, Wesley"; "Bratcher, Michael, EMNRD"
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@dmv.com>; 'Mathews, Wesley' <Wesley.Mathews@dmv.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@dmv.com>; 'Mathews, Wesley' <Wesley.Mathews@dmv.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 9th, and 10th, 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 Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
DEVON ENERGY - PARKWAY WEST UNIT #1 SWD								
Sample Date 2-9-21		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-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

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
DEVON ENERGY - PARKWAY WEST UNIT #1 SWD								
Sample Date 2-10-21		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
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 <Dale.Woodall@dyn.com>

Sent: Thursday, January 26, 2023 8:16 AM

To: Tom Pima Oil <tom@pimaoil.com>; 'Gio PimaOil' <gio@pimaoil.com>; Mathews, Wesley <Wesley.Mathews@dyn.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: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Thursday, January 26, 2023 8:00:09 AM

To: Woodall, Dale <Dale.Woodall@dyn.com>

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

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Pima Environmental Services

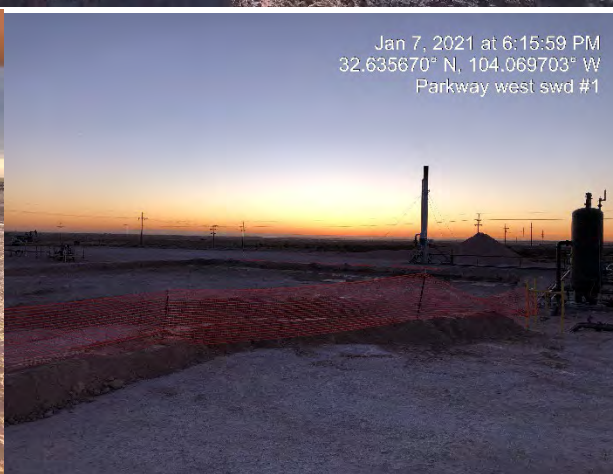
Appendix D

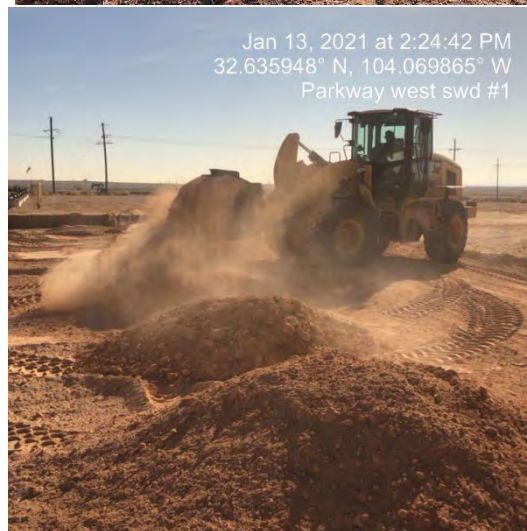
Photographic Documentation

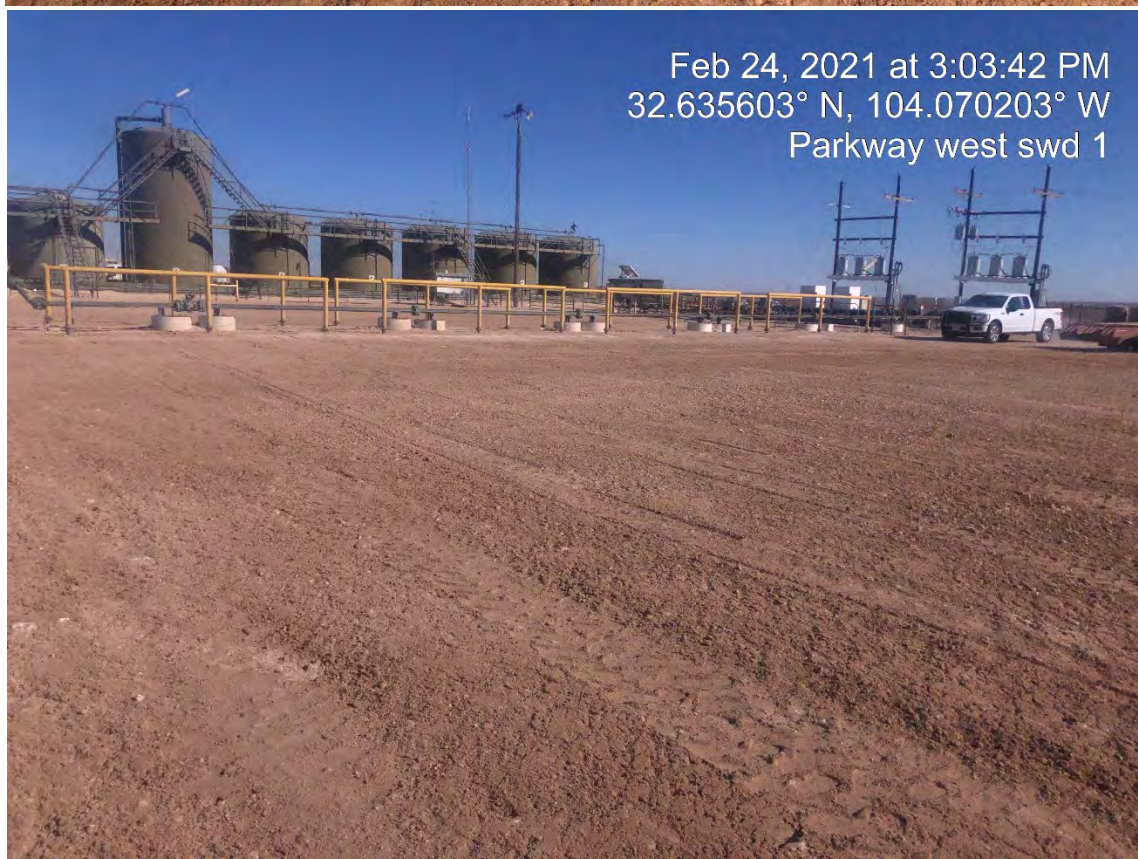
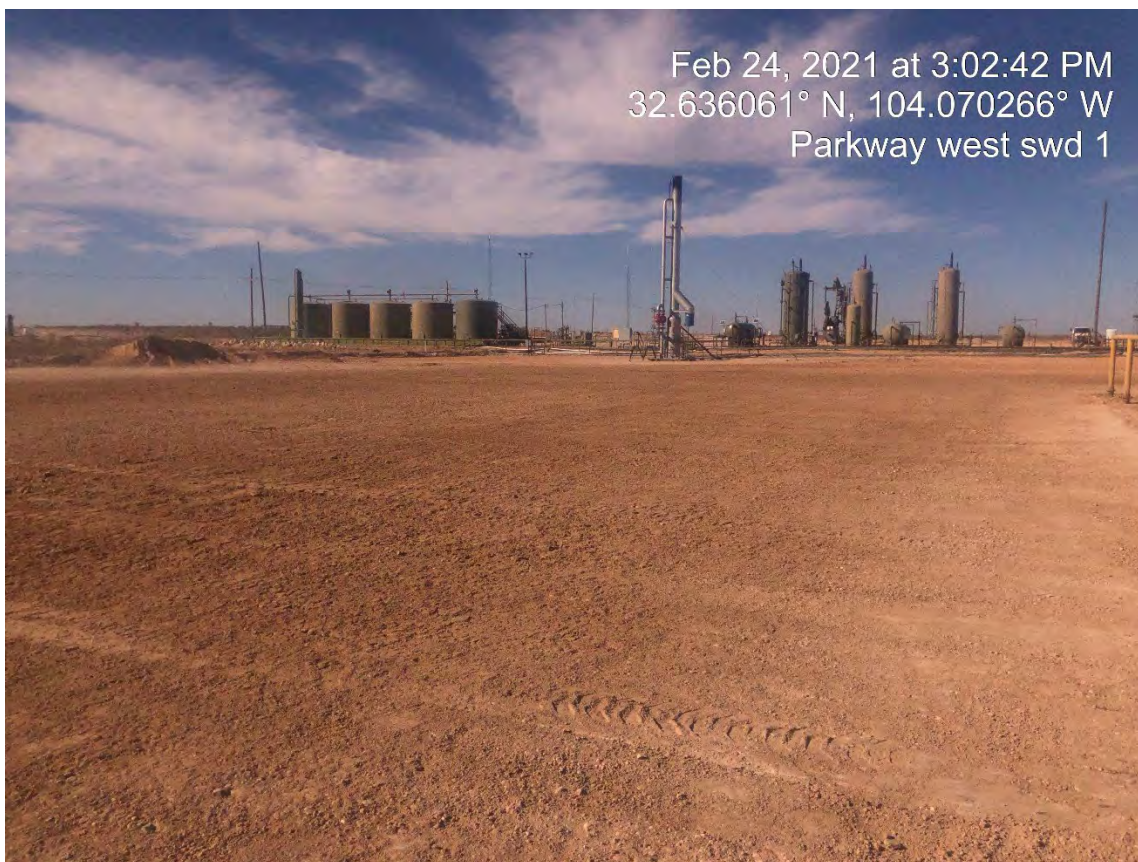




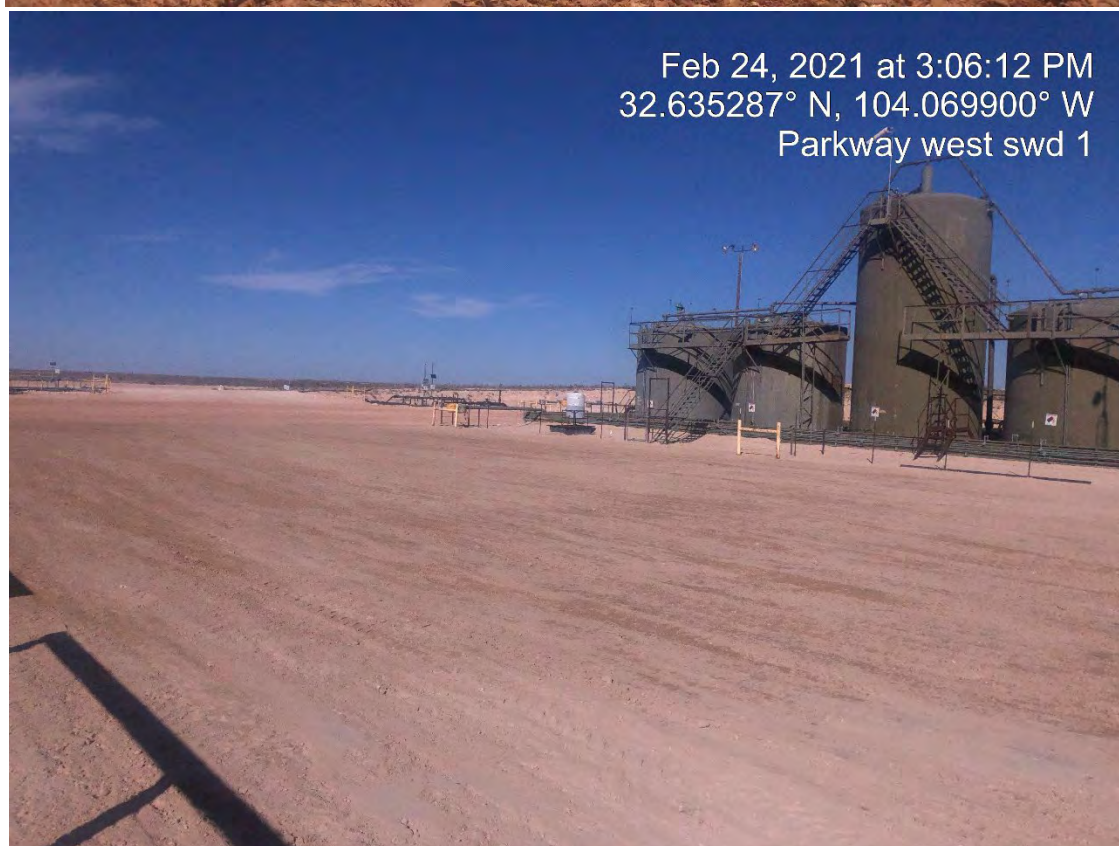


















Pima Environmental Services

Appendix E

Laboratory Reports



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

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 - 1 - 0" - 6" (H002542-01)

BTEX 8021B			mg/kg		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) 107 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		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		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 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 2 - 0" - 6" (H002542-02)

BTEx 8021B		mg/kg		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) 105 % 73.3-129

Chloride, SM4500Cl-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		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 120 % 44.3-144

Surrogate: 1-Chlorooctadecane 121 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 3 - 0" - 6" (H002542-03)

BTEx 8021B		mg/kg		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) 105 % 73.3-129

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		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 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 119 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 3 - 1' (H002542-04)

BTEx 8021B		mg/kg		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) 105 % 73.3-129

Chloride, SM4500Cl-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		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 124 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 3 - 2' (H002542-05)

BTEX 8021B		mg/kg		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) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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 127 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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 - 3 - 3' (H002542-06)

BTX 8021B		mg/kg		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 BTX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	09/28/2020	ND	400	100	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*	<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 % 44.3-144

Surrogate: 1-Chlorooctadecane 127 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 4 - 0" - 6" (H002542-07)

BTEx 8021B		mg/kg		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) 104 % 73.3-129

Chloride, SM4500Cl-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		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 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 4 - 1' (H002542-08)

BTX 8021B		mg/kg		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 BTX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

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		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 130 % 44.3-144

Surrogate: 1-Chlorooctadecane 128 % 42.2-156

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

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 - 5 - 0" - 6" (H002542-09)

BTEX 8021B		mg/kg		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) 104 % 73.3-129

Chloride, SM4500CI-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		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 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 6 - 0" - 6" (H002542-10)

BTEx 8021B		mg/kg		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) 104 % 73.3-129

Chloride, SM4500Cl-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		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*	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 135 % 42.2-156

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

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 - 7 - 0" - 6" (H002542-11)

BTEx 8021B		mg/kg		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 % 73.3-129

Chloride, SM4500CI-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		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 % 44.3-144

Surrogate: 1-Chlorooctadecane 121 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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 - 8 - 0" - 6" (H002542-12)

BTEx 8021B		mg/kg		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) 104 % 73.3-129

Chloride, SM4500Cl-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 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

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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)

BTEx 8021B		mg/kg		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) 105 % 73.3-129

Chloride, SM4500Cl-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		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 125 % 44.3-144

Surrogate: 1-Chlorooctadecane 128 % 42.2-156

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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 - 10 - 0" - 6" (H002542-14)

BTX 8021B		mg/kg		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 BTX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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*	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 131 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 11 - 0" - 6" (H002542-15)

BTEX 8021B		mg/kg		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 % 73.3-129

Chloride, SM4500Cl-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		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*	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 129 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 12 - 0" - 6" (H002542-16)

BTX 8021B		mg/kg		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 BTX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 119 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 13 - 0" - 6" (H002542-17)

BTX 8021B		mg/kg		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 BTX	<0.300	0.300	09/25/2020	ND						

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

Chloride, SM4500Cl-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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

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

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 - 13 - 1' (H002542-18)

BTEX 8021B		mg/kg		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*	0.110	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 % 73.3-129

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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 132 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 14 - 0" - 6" (H002542-19)

BTEX 8021B		mg/kg		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 % 73.3-129

Chloride, SM4500Cl-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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 42.2-156

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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 - 15 - 0" - 6" (H002542-20)

BTEx 8021B		mg/kg		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	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 % 73.3-129

Chloride, SM4500Cl-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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 131 % 42.2-156

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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 - 15 - 1' (H002542-21)

BTX 8021B		mg/kg		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	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 BTX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 119 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 15 - 2' (H002542-22)

BTX 8021B		mg/kg		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	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 BTX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 127 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 16 - 0" - 6" (H002542-23)

BTX 8021B		mg/kg		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	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 BTX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 122 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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 - 17 - 0" - 6" (H002542-24)

BTX 8021B		mg/kg		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	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 BTX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 133 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 0" - 6" (H002542-25)

BTEX 8021B		mg/kg		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	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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 131 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 1' (H002542-26)

BTX 8021B		mg/kg		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	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 BTX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 122 % 42.2-156

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

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		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	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 % 73.3-129

Chloride, SM4500Cl-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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

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

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 - 3' (H002542-28)

BTEx 8021B		mg/kg		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	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 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 19 - 0" - 6" (H002542-29)

BTEx 8021B		mg/kg		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	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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 122 % 42.2-156

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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 - 20 - 0" - 6" (H002542-30)

BTEx 8021B		mg/kg		Analyzed 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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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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 - 21 - 0" - 6" (H002542-31)

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	09/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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		Analyzed 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 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 127 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 2 (H002542-33)

BTEx 8021B		mg/kg		Analyzed 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 % 73.3-129

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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 3 (H002542-34)

BTEx 8021B		mg/kg		Analyzed 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 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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 - 5 - 1' (H002542-35)

BTEx 8021B		mg/kg		Analyzed 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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

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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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:							BILL TO			ANALYSIS REQUEST										
Project Manager:							P.O.#:													
Address:							Company:													
City:							Attn:													
Phone #:							Fax #:													
Project #:							Project Owner:													
Project Name:							State:	Zip:												
Project Location:							Phone #:													
Sampler Name:							Fax #:													
FOR LAB USE ONLY				MATRIX	PRESERV.	SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE TIME	TPTA EXT	BTEX	Chloride											
H002542																				
1	S-1 - 0"-6"			X		9/15/20 9:00	X	X	X											
2	S-2 - 0"-6"					9:05														
3	S-3 - 0"-6"					9:10														
4	S-3 - 1'					9:15														
5	S-3 - 2'					9:20														
6	S-3 - 3'					9:25														
7	S-4 - 0"-6"					9:30														
8	S-4 - 1'					9:35														
9	S-5 - 0"-6"					9:40														
10	S-6 - 0"-6"					9:45														

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Relinquished By:	Date:	Received By:	Verbal Result:
[Signature]	9/15/20	[Signature]	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Time:	8:52		All Results are emailed. Please provide Email address:
Refiniquished By:	Date:	Received By:	REMARKS:
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	Turnaround Time:
Sampler - UPS - Bus - Other:	-2.7	Cool Intact	Standard <input checked="" type="checkbox"/>
	Corrected Temp. °C	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Rush <input type="checkbox"/>
		CHECKED BY: (Initials) TO	Bacteria (only) Sample Condition Observed Temp. °C
			<input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 Correction Factor None Corrected Temp. °C



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Pima Environmental</u>		BILL TO		ANALYSIS REQUEST																			
Project Manager: <u>Chris Jones</u>		P.O. #: <u>20890519</u>		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH EXT</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEx</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> </div>																			
Address: <u>1601 N. Turner</u>		Company: <u>Devon</u>																					
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn: <u>Tom Bynum</u>																					
Phone #: <u>575-631-6977</u> Fax #:		Address:																					
Project #: <u>49</u> Project Owner: <u>Devon</u>		City:																					
Project Name: <u>Parkway West SWD</u>		State: Zip:																					
Project Location: <u>32.635774, -104.069381</u>		Phone #:																					
Sampler Name: <u>Robert Carper</u>		Fax #:																					
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME									
<u>H002542</u>						X							9/15/20	9:50	X	X	X						
11	S-7-0"-6"	G												9:55									
12	S-8-0"-6"													10:00									
13	S-9-0"-6"													10:05									
14	S-10-0"-6"													10:10									
15	S-11-0"-6"													10:15									
16	S-12-0"-6"													10:20									
17	S-13-0"-6"													10:25									
18	S-13-1'													10:30									
19	S-14-0"-6"													10:35									
20	S-15-0"-6"																						

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Relinquished By: <u>[Signature]</u>	Date: <u>9/15/20</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
Time:	Time:		REMARKS:
Delivered By: (Circle One)	Observed Temp. °C <u>-2.7</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C	CHECKED BY: (Initials) <u>JO</u>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 Correction Factor None
			Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Pima Environmental</u>		BILL TO		ANALYSIS REQUEST																			
Project Manager: <u>Chris Jones</u>		P.O. #: <u>20890519</u>																					
Address: <u>1601 N. Turner</u>		Company: <u>Devon</u>																					
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn: <u>Tom Bynum</u>																					
Phone #: <u>575-631-6977</u> Fax #:		Address:																					
Project #: <u>49</u> Project Owner: <u>Devon</u>		City:																					
Project Name: <u>Parkway West SWD</u>		State: Zip:																					
Project Location: <u>32635 774, -104.069381</u>		Phone #:																					
Sampler Name: <u>Robert Cuper</u>		Fax #:																					
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME									
<u>H002542</u>																							
<u>21</u>	<u>S-15-1'</u>	<u>6</u>				<u>L</u>				<u>+</u>			<u>9/15/20</u>	<u>10:40</u>	<u>+</u>	<u>2</u>	<u>+</u>						
<u>22</u>	<u>S-15-2'</u>													<u>10:45</u>									
<u>23</u>	<u>S-16-0''-6''</u>													<u>10:50</u>									
<u>24</u>	<u>S-17-04'-6''</u>													<u>10:55</u>									
<u>25</u>	<u>S-18-0''-6''</u>													<u>11:00</u>									
<u>26</u>	<u>S-18-1'</u>													<u>11:05</u>									
<u>27</u>	<u>S-18-2'</u>													<u>11:10</u>									
<u>28</u>	<u>S-18-3'</u>													<u>11:20</u>									
<u>29</u>	<u>S-19-0''-6''</u>													<u>11:25</u>									
<u>30</u>	<u>S-20-0''-6''</u>													<u>11:30</u>									

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Relinquished By: <u>Ruth</u>	Date: <u>9/25/20</u>	Received By: <u>Jamara Eldridge</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
Time:	Time:		REMARKS:
Delivered By: (Circle One)	Observed Temp. °C <u>-27</u>	Sample Condition	Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No	Bacteria (only) Sample Condition
		Thermometer ID #113	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No
		Correction Factor None	Observed Temp. °C
			Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: 		Date: 9/24/20 Time: 8:50		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:	
Relinquished By: 		Date: Time:		Received By:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C -2.7 Corrected Temp. °C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 	
Turnaround Time:		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #113 Correction Factor None	

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

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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited 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)

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



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:

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

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Celey D. Keene, Lab Director/Quality Manager



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:

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.

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Celey D. Keene, Lab Director/Quality Manager



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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 - 1'
H003117-01 (Soil)

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

Chloride	960		16.0	mg/kg	4	0112512	GM	30-Nov-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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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
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	0112512	GM	30-Nov-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:PIMA ENVIROMENTAL
1601 N TURNER STE. 500
HOBBS NM, 88240Project: PARKWAY WEST SWD #1
Project Number: 49
Project Manager: CHRIS JONES
Fax To:Reported:
01-Dec-20 16:46**B - 1 - BOTTOM****H003117-03 (Soil)**

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

Chloride	64.0		16.0	mg/kg	4	0112512	GM	30-Nov-20	4500-Cl-B	
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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
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1860		16.0	mg/kg	4	0112512	GM	30-Nov-20	4500-Cl-B	
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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
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Cardinal Laboratories**Inorganic Compounds**

Chloride	352		16.0	mg/kg	4	0112512	GM	30-Nov-20	4500-Cl-B	
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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 - BOTTOM**H003117-06 (Soil)**

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

Chloride	160		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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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
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1330		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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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 - 2'
H003117-08 (Soil)

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

Chloride	1010		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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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 - BOTTOM**H003117-09 (Soil)**

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

Chloride	624		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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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 - 4 - 1'
H003117-10 (Soil)

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

Chloride	240		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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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 - 4 - 2'
H003117-11 (Soil)

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

Chloride	160		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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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 - 4 - BOTTOM**H003117-12 (Soil)**

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

Chloride	320		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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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
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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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
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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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 - BOTTOM**H003117-15 (Soil)**

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

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

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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 - 1'
H003117-16 (Soil)

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

Chloride	3920		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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:

Reported:
01-Dec-20 16:46

B - 6 - 2'
H003117-17 (Soil)

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

Chloride	752		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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:

Reported:
01-Dec-20 16:46

B - 6 - BOTTOM**H003117-18 (Soil)**

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

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

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Celey D. Keene, Lab Director/Quality Manager



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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
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Cardinal Laboratories**Inorganic Compounds**

Chloride	720		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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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
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Cardinal Laboratories**Inorganic Compounds**

Chloride	416		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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:

Reported:
01-Dec-20 16:46

B - 7 - BOTTOM**H003117-21 (Soil)**

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

Chloride	640		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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:

Reported:
01-Dec-20 16:46

B - 8 - 1'
H003117-22 (Soil)

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

Chloride	192		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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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 - 8 - 2'**H003117-23 (Soil)**

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

Chloride	80.0		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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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 - 8 - BOTTOM**H003117-24 (Soil)**

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

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

Chloride	96.0		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	
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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 - 2'
H003117-26 (Soil)

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

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

Reported:
01-Dec-20 16:46

B - 9 - BOTTOM**H003117-27 (Soil)**

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

Chloride	352		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	
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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 - 1'
H003117-28 (Soil)

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

Chloride	656		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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

Chloride	368		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	
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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 - BOTTOM**H003117-30 (Soil)**

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

Chloride	160		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	
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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 - 11 - 1'
H003117-31 (Soil)

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

Chloride	1380		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	
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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 - 11 - 2'
H003117-32 (Soil)

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

Chloride	128		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	
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Analytical Results For:PIMA ENVIROMENTAL
1601 N TURNER STE. 500
HOBBS NM, 88240Project: PARKWAY WEST SWD #1
Project Number: 49
Project Manager: CHRIS JONES
Fax To:Reported:
01-Dec-20 16:46**B - 11 - BOTTOM****H003117-33 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	
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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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:

Reported:
01-Dec-20 16:46

B - 12 - 1'
H003117-34 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	224		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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:

Reported:
01-Dec-20 16:46

B - 12 - 2'
H003117-35 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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:

Reported:
01-Dec-20 16:46

B - 12 - BOTTOM**H003117-36 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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:

Reported:
01-Dec-20 16:46

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

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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:

Reported:
01-Dec-20 16:46

B - 13 - 2'
H003117-38 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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:

Reported:
01-Dec-20 16:46

B - 13 - BOTTOM**H003117-39 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

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Celey D. Keene, Lab Director/Quality Manager



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:

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
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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
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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
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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
----------	-----	------	-------	-----	-----	--------

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Celey D. Keene, Lab Director/Quality Manager



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:

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 0113012 - 1:4 DI Water**LCS Dup (0113012-BSD1)**

Prepared & Analyzed: 30-Nov-20

Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
----------	-----	------	-------	-----	--	-----	--------	------	----	--

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

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Pima Environmental</u>		BILL TO		ANALYSIS REQUEST														
Project Manager: <u>Chris Jones</u>		P.O. #: <u>20890519</u>																
Address: <u>1601 N. Turner STE 500</u>		Company: <u>Devon</u>																
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn: <u>Tom Bynum</u>																
Phone #: <u>964-7740</u> Fax #:		Address:																
Project #: <u>49</u> Project Owner: <u>Devon</u>		City:																
Project Name: <u>Parkway West SWD #1</u>		State: Zip:																
Project Location: <u>Eddy, NM</u>		Phone #:																
Sampler Name: <u>Robert Chipper</u>		Fax #:																
FOR LAB USE ONLY																		
Lab I.D.	* Sample I.D.	(GRAB OR C/COMP.)	# CONTAINERS	MATRIX			PRESERV.	SAMPLING		Chloride								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					ACID/BASE	ICE / COOL	OTHER	DATE	TIME
<u>HDD3117</u>	<u>B</u>	<u>6</u>															<u>11/23</u>	<u>0850</u>
<u>1</u>	<u>5-1-1 FT</u>																<u>11/23</u>	<u>0855</u>
<u>2</u>	<u>5-1-2 FT</u>																<u>11/23</u>	<u>0900</u>
<u>3</u>	<u>5-1-Bottom</u>																<u>11/23</u>	<u>0905</u>
<u>4</u>	<u>5-2-1'</u>																<u>11/23</u>	<u>0910</u>
<u>5</u>	<u>5-2-2'</u>																<u>11/23</u>	<u>0915</u>
<u>6</u>	<u>5-2-Bottom</u>																<u>11/23</u>	<u>0920</u>
<u>7</u>	<u>5-3-1'</u>																<u>11/23</u>	<u>0925</u>
<u>8</u>	<u>5-3-2'</u>																<u>11/23</u>	<u>0930</u>
<u>9</u>	<u>5-3-Bottom</u>												<u>11/23</u>	<u>0935</u>				
<u>10</u>	<u>5-4-1'</u>																	
<p>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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																		
Relinquished By: <u>[Signature]</u>		Date: <u>11/24/16</u>		Received By: <u>Jodi Benson</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:												
Relinquished By:		Date: <u>2:10</u>		Received By:		All Results are emailed. Please provide Email address:												
Delivered By: (Circle One)		Observed Temp. °C <u>4.1</u>		Sample Condition		REMARKS: <u>* Sample IDs revised as per Chris. 12/1/16 ch</u>												
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/>												
FORM-000 R 3.0				CHECKED BY: <u>[Signature]</u>		Thermometer ID: <u>497 113</u>												
						Correction Factor + 0.4 °C												
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C												

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



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO					
ANALYSIS REQUEST					
Company Name: Pima Enviro metal Project Manager: Chris Jones Address: 1601 N. Turner STE 500 City: Hobbs State: NM Zip: 88240 Phone #: 964-7740 Fax #: Project #: 49 Project Owner: Devon Project Name: PARKWAY WEST SWD #1 Project Location: Eddy, NM Sampler Name: Robert Carper			P.O. #: 20890519 Company: Devon Attn: Tom Bynum Address: City: State: Zip: Phone #: Fax #:		
			Chlorides		
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING
Lab I.D. Sample I.D.			(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE TIME
HDD3117	B	G			
11	5 - 4 - 2'				11/23 0800
12	5 - 4 - BOTTOM				11/23 0805
13	5 - 5 - 1'				11/23 0810
14	5 - 5 - 2'				11/23 0815
15	5 - 5 - BOTTOM				11/23 0818
16	5 - 6 - 1'				11/23 0825
17	5 - 6 - 2'				11/23 0830
18	5 - 6 - BOTTOM				11/23 0835
19	5 - 7 - 1'				11/23 0640
20	5 - 7 - 2'				11/23 0845
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Relinquished By: [Signature]		Date: 11/24/20	Received By: Jodi Henson		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By: [Signature]		Date: 220	Received By:		All Results are emailed. Please provide Email address:
		Date:			REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 4.1	Corrected Temp. °C	Sample Condition Cool Intact <input checked="" type="checkbox"/> <input type="checkbox"/> YES <input type="checkbox"/> NO	CHECKED BY: [Initials] Turnaround Time: Standard Rush <input checked="" type="checkbox"/>
					Thermometer ID #87-113 Correction Factor +0.4 °C
					Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> YES <input type="checkbox"/> NO Corrected Temp. °C <input type="checkbox"/> NO <input type="checkbox"/> NO



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Pima Environmental
Project Manager: Chris Jones
Address: 1601 N. Turner STE 500
City: Hobbs State: NM Zip: 88240
Phone #: 964-7740 Fax #:
Project #: 49 Project Owner: Devon
Project Name: PARWAY WEST SWD #1
Project Location: Eddy, NM
Sampler Name: Robert Carper

BILL TO

ANALYSIS REQUEST

P.O. #: 20890519
Company: Devon
Attn: Tom Bynum
Address:
City:
State: Zip:
Phone #:
Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H003117

B

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

PRESERV.

SAMPLING

DATE

TIME

4/23 0540
11/23 0945
11/23 0950
11/23 1000
11/23 1005
11/23 1010
11/23 1015
11/23 1020
11/23 1025
11/23 1030

Chlorides

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Relinquished By:

Date: 11/14/20
Time: 2:30
Date:
Time:

Received By:

Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS:

Delivered By: (Circle One)

Observed Temp. °C

4.1

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Sample Condition

Cool Intact
☐ Yes ☐ Yes
☐ No ☐ No

CHECKED BY:

(Initials)

Turnaround Time:

Standard

Rush

☒

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C
☐ Yes ☐ Yes
☐ No ☐ No Corrected Temp. °C

Thermometer ID #113
Correction Factor None

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

FORM-006 R 3.1 06/04/20



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Pima Environmental</u>		BILL TO		ANALYSIS REQUEST									
Project Manager: <u>Chris Jones</u>		P.O. #: <u>20890519</u>											
Address: <u>1601 N. Turner STE 500</u>		Company: <u>Devon</u>											
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn: <u>Tom Bynum</u>											
Phone #: <u>964-7740</u> Fax #:		Address:											
Project #: <u>49</u> Project Owner: <u>Devon</u>		City:											
Project Name: <u>RAILWAY WEST SWD #1</u>		State: Zip:											
Project Location: <u>Eddy, NM</u>		Phone #:											
Sampler Name: <u>Robert CARTER</u>		Fax #:											
FOR LAB USE ONLY													
Lab I.D.	Sample I.D.	G (G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		DATE	TIME	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE			
<u>HOD3117</u>	<u>B</u>												
<u>31</u>	<u>5-11-1'</u>												
<u>32</u>	<u>5-11-2'</u>												
<u>33</u>	<u>5-11-BOTTOM</u>												
<u>34</u>	<u>5-12-1'</u>												
<u>35</u>	<u>5-12-2'</u>												
<u>36</u>	<u>5-12-BOTTOM</u>												
<u>37</u>	<u>5-13-1'</u>												
<u>38</u>	<u>5-13-2'</u>												
<u>39</u>	<u>5-13-BOTTOM</u>												

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Relinquished By: <u>Gz</u>	Date: <u>11/6/20</u>	Received By: <u>Jodi Benson</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Time: <u>2:30</u>	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One)	Observed Temp. °C <u>4.1</u>	Sample Condition	REMARKS:
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
FORM-006 R 3.1 06/04/20		CHECKED BY: <u>JH</u> (Initials)	Bacteria (only) Sample Condition
		Thermometer ID #113	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
		Correction Factor None	Observed Temp. °C
			Corrected Temp. °C

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



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

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		Analyzed 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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.3 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 #2 (H003369-02)

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	01/04/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.4 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 #3 (H003369-03)

BTEx 8021B		mg/kg		Analyzed 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 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 #4 (H003369-04)

BTEx 8021B		mg/kg		Analyzed 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 % 73.3-129

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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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: WEST WALL COMP #1 (H003369-05)

BTEx 8021B		mg/kg		Analyzed 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 % 73.3-129

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	01/05/2021	ND	416	104	400	3.92		

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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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: WEST WALL COMP #2 (H003369-06)

BTEX 8021B		mg/kg		Analyzed 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 % 73.3-129

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	01/05/2021	ND	416	104	400	3.92		

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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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: WEST WALL COMP #3 (H003369-07)

BTEX 8021B		mg/kg		Analyzed 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 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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: WEST WALL COMP #4 (H003369-08)

BTEx 8021B		mg/kg		Analyzed 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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 96.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.7 % 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 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, Lab Director/Quality Manager

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

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Pima Environmental</u>				BILL TO				ANALYSIS REQUEST																		
Project Manager: <u>Chris Jones</u>				P.O. #: <u>20890519</u>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH - EXT</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> </div>																		
Address: <u>1601 N. Turner Ste 500</u>				Company: <u>Devon</u>																						
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn: <u>Wes Matthews</u>																						
Phone #: <u>575-631-6977</u> Fax #:				Address:																						
Project #: <u>49</u> Project Owner: <u>Devon</u>				City:																						
Project Name: <u>Parkway West SWD #1</u>				State: Zip:																						
Project Location: <u>EDDY County</u>				Phone #:																						
Sampler Name: <u>Mark Newcomb</u>				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
<u>HDD3369</u>													<u>12/31/20</u>													
<u>1</u>	<u>North Wall Comp #1</u>																									
<u>2</u>	<u>North Wall Comp #2</u>																									
<u>3</u>	<u>North Wall Comp #3</u>																									
<u>4</u>	<u>North Wall Comp #4</u>																									
<u>5</u>	<u>West Wall Comp #1</u>																									
<u>6</u>	<u>West Wall Comp #2</u>																									
<u>7</u>	<u>West Wall Comp #3</u>																									
<u>8</u>	<u>West Wall Comp #4</u>																									

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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>	Date: <u>12/31/20</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS: <u>Bill to Devon</u>
Delivered By: (Circle One)	Observed Temp. °C <u>14.3</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C	CHECKED BY: <u>[Signature]</u>	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 Correction Factor None

FORM-006 R 3.1 06/04/20

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



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

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
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: ** (See Notes)
Sample Received By: Tamara Oldaker

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

BTEX 8021B		mg/kg		Analyzed 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 % 73.3-129

Chloride, SM4500Cl-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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.4 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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
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: ** (See Notes)
Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed 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 % 73.3-129

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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.3 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Pima Environmental</u>				BILL TO				ANALYSIS REQUEST													
Project Manager: <u>Chris Jones</u>				P.O. #: <u>20890519</u>				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH - EXT</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> </div>													
Address: <u>1601 N. Turner Ste 500</u>				Company: <u>Devon</u>																	
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn: <u>Wes Matthews</u>																	
Phone #: <u>575-631-6977</u> Fax #:				Address:																	
Project #: <u>49</u> Project Owner: <u>Devon</u>				City:																	
Project Name: <u>Parkway SWD #1</u>				State: Zip:																	
Project Location: <u>EDDY County</u>				Phone #:																	
Sampler Name: <u>Mark Newcomb</u>				Fax #:																	
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME							
<u>#210056</u>	<u>1 WEST WALL #3</u>												<u>1/8/21</u>	<u>1:15</u>							
	<u>2 WEST WALL #4</u>												<u>I</u>								

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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>		Date: <u>1/8/21</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: <u>1315</u>		Received By:		All Results are emailed. Please provide Email address:	
Delivered By: (Circle One)		Date:		Time:		REMARKS: <u>Bill to Devon</u>	
Sampler - UPS - Bus - Other:		Observed Temp. °C <u>12.9</u>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Corrected Temp. °C		CHECKED BY: (Initials) <u>TO.</u>		Thermometer ID #113 Correction Factor None		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	

FORM-006 R3.1 06/04/20

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



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

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 # 4 (H210085-01)

BTEX 8021B		mg/kg		Analyzed 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 % 73.3-129

Chloride, SM4500Cl-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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.6 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 # 4 (H210085-02)

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	01/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 # 1 (H210085-03)

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	01/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500CI-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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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)

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	01/14/2021	ND						

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

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	400	100	400	3.92		

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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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)

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	01/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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 # 2 (H210085-06)

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	01/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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 # 3 (H210085-07)

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	01/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500CI-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	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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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 # 3 (H210085-08)

BTEx 8021B		mg/kg		Analyzed 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) 101 % 73.3-129

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		Analyzed 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

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Celey D. Keene, Lab Director/Quality Manager



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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 # 6 (H210085-09)

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	01/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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 # 5 (H210085-10)

BTEx 8021B		mg/kg		Analyzed 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) 98.6 % 73.3-129

Chloride, SM4500CI-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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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 # 7 (H210085-11)

BTEx 8021B		mg/kg		Analyzed 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 % 73.3-129

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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.0 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 # 8 (H210085-12)

BTEx 8021B		mg/kg		Analyzed 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) 98.7 % 73.3-129

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	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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager

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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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Poma Environmental</u>				BILL TO		ANALYSIS REQUEST																
Project Manager: <u>Chris Jones</u>				P.O. #: <u>20890519</u>																		
Address: <u>1601 N. Turner Ste 500</u>				Company: <u>Devon</u>																		
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn: <u>Wes Matthew</u>																		
Phone #: <u>575-631-6977</u> Fax #:				Address:																		
Project #: <u>49</u> Project Owner: <u>Devon</u>				City:																		
Project Name: <u>Partway West SWD</u>				State: Zip:																		
Project Location: <u>LODDY</u>				Phone #:																		
Sampler Name: <u>Gio Gomez</u>				Fax #:																		
FOR LAB USE ONLY																						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING												
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME								
<u>H20085</u>																						
<u>1</u>	<u>East wall #4</u>	<u>C</u>				<u>X</u>					<u>X</u>		<u>1-8-21</u>	<u>10:00</u>								
<u>2</u>	<u>South wall #4</u>													<u>10:10</u>								
<u>3</u>	<u>East wall #1</u>													<u>9:00</u>								
<u>4</u>	<u>South wall #1</u>													<u>9:10</u>								
<u>5</u>	<u>East wall #2</u>													<u>9:20</u>								
<u>6</u>	<u>South wall #2</u>													<u>9:30</u>								
<u>7</u>	<u>East wall #3</u>													<u>9:40</u>								
<u>8</u>	<u>South wall #3</u>													<u>9:50</u>								
<u>9</u>	<u>South wall #4</u>													<u>10:20</u>								
<u>10</u>	<u>South wall #5</u>													<u>10:30</u>								

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Relinquished By: <u>Rusty</u>	Date: <u>1-13-21</u>	Received By: <u>Gio Gomez</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Time: <u>4:45</u>			All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
Time:			
Delivered By: (Circle One)	Observed Temp. °C <u>3.1</u>	Sample Condition	CHECKED BY: <u>JA</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
			Thermometer ID #113
			Correction Factor None
			Bacteria (only) Sample Condition
			Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
			Observed Temp. °C
			Corrected Temp. °C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Pima Environmental</u>				BILL TO				ANALYSIS REQUEST																																			
Project Manager: <u>Chris Jones</u>				P.O. #: <u>20890919</u>				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH LEA</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> </div>																																			
Address: <u>1601 N. Turner</u> Ste 500				Company: <u>Devon</u>																																							
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn: <u>Wes Matthews</u>																																							
Phone #: <u>575-631-6977</u> Fax #:				Address:																																							
Project #: <u>49</u> Project Owner: <u>Devon</u>				City:																																							
Project Name: <u>Parkway West SWD</u>				State: Zip:																																							
Project Location: <u>EDDY</u>				Phone #:																																							
Sampler Name: <u>Gio Gomez</u>				Fax #:																																							
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(GRAB OR (C)OMP)		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																													
										GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
		<u>H210085</u>																																									
		<u>11</u>		<u>South wall 47</u>		<u>C</u>																																					
		<u>12</u>		<u>South wall 48</u>		<u>C</u>																																					

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Relinquished By: <u>[Signature]</u>		Date: <u>1-13-21</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <u>4:45</u>				All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C <u>3.1</u>		Sample Condition		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Bacteria (only) Sample Condition	
				Checked By: <u>[Signature]</u>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
						Observed Temp. °C	
						Corrected Temp. °C	
						Thermometer ID #113	
						Correction Factor None	

FORM-006 R 3.1 06/04/20

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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 Dairy Ashford
Suite 210
Houston, Texas 77079

Attn: Chris Jones

A handwritten signature in black ink that reads "Holly Taylor".

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

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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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.

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

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

Job ID: 890-716-1

Qualifiers

GC VOA

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

GC Semi VOA

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

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

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-Surface (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), CS20-1' (890-716-40), 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-Surface (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), CS20-1' (890-716-40), 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

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.

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

Lab Sample ID: 890-716-1

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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
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: 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 00:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 00:12	1
Oil 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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	05/25/21 08:49	05/26/21 00:12	1
o-Terphenyl	91		70 - 130	05/25/21 08:49	05/26/21 00:12	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 20:26	1

Client Sample ID: CS1-1'

Lab Sample ID: 890-716-2

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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

Method: 8015B NM - Diesel Range Organics (DRO) (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 01:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS1-1'

Lab Sample ID: 890-716-2

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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 01:15	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U	5.03	mg/Kg			05/26/21 20:41	1

Client Sample ID: CS2-Surface

Lab Sample ID: 890-716-3

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic 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 NM - Diesel Range Organics (DRO) (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
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05	mg/Kg			05/26/21 20:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS2-1'

Lab Sample ID: 890-716-4

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

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 00:15	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	1
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	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
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	1

Method: 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 01:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 01:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 01:57	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	05/25/21 08:49	05/26/21 01:57	1
o-Terphenyl	100		70 - 130	05/25/21 08:49	05/26/21 01:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.68		5.02	mg/Kg			05/26/21 21:00	1

Client Sample ID: CS3-Surface

Lab Sample ID: 890-716-5

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic 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	05/25/21 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 Range Organics (DRO) (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

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS3-Surface

Lab Sample ID: 890-716-5

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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
Oil 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
o-Terphenyl	98		70 - 130			05/25/21 08:49	05/26/21 02:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.35	U	5.35	mg/Kg			05/26/21 21:05	1

Client Sample ID: CS3-1'

Lab Sample ID: 890-716-6

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

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 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 02:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 02:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 02:40	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 02:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			05/25/21 08:49	05/26/21 02:40	1
o-Terphenyl	99		70 - 130			05/25/21 08:49	05/26/21 02:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.71		4.97	mg/Kg			05/26/21 21:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS4-Surface

Lab Sample ID: 890-716-7

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

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 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	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 03:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:01	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	05/25/21 08:49	05/26/21 03:01	1
o-Terphenyl	107		70 - 130	05/25/21 08:49	05/26/21 03:01	1

Method: 300.0 - Anions, Ion Chromatography - 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

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

Method: 8021B - Volatile Organic 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 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 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 03:22	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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 03:22	1
Oil 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 Chromatography - 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

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic 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	05/25/21 01:57	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 01:57	1
Total BTEX	<0.00398	U	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: 8015B NM - Diesel Range Organics (DRO) (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 03:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 03:43	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			05/26/21 21:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

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)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/25/21 02:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/25/21 02:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/25/21 02:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/24/21 09:50	05/25/21 02:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/24/21 09:50	05/25/21 02:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/24/21 09:50	05/25/21 02:17	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/24/21 09:50	05/25/21 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	05/24/21 09:50	05/25/21 02:17	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/24/21 09:50	05/25/21 02:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (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 04:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 04:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 04:04	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	05/25/21 08:49	05/26/21 04:04	1
o-Terphenyl	101		70 - 130	05/25/21 08:49	05/26/21 04:04	1

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	1

Client Sample ID: CS6-Surface

Lab Sample ID: 890-716-11

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

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 03:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 03:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 03:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/21 09:50	05/25/21 03:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/25/21 03:39	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/21 09:50	05/25/21 03:39	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/24/21 09:50	05/25/21 03:39	1

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
1,4-Difluorobenzene (Surr)	95		70 - 130	05/24/21 09:50	05/25/21 03:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (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 04:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS6-Surface

Lab Sample ID: 890-716-11

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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 04:46	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.2		4.96	mg/Kg			05/26/21 22:09	1

Client Sample ID: CS6-1'

Lab Sample ID: 890-716-12

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic 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	05/25/21 03:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 03:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 03:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 03:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/21 09:50	05/25/21 03:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 03:59	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/24/21 09:50	05/25/21 03:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/24/21 09:50	05/25/21 03:59	1
1,4-Difluorobenzene (Surr)	96		70 - 130			05/24/21 09:50	05/25/21 03:59	1

Method: 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 05:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:08	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 05:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			05/25/21 08:49	05/26/21 05:08	1
o-Terphenyl	96		70 - 130			05/25/21 08:49	05/26/21 05:08	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 22:24	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS7-Surface

Lab Sample ID: 890-716-13

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

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 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 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
Oil 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
o-Terphenyl	90		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

Client Sample ID: CS7-1'

Lab Sample ID: 890-716-14

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

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 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 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 05:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS7-1'

Lab Sample ID: 890-716-14

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			05/26/21 22:33	1

Client Sample ID: CS8-Surface

Lab Sample ID: 890-716-15

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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 05:00	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:00	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/24/21 09:50	05/25/21 05:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/24/21 09:50	05/25/21 05:00	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/24/21 09:50	05/25/21 05:00	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		05/24/21 09:50	05/25/21 05:00	1
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 Range Organics (DRO) (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
Oil 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	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			05/26/21 22:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

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

Method: 8021B - Volatile Organic Compounds (GC)

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 Range Organics (DRO) (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 06:32	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
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 06:32	1
Total TPH	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 06:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	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 Chromatography - 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

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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 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 06:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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 06:53	1
Oil 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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/26/21 22:58	1

Client Sample ID: CS9-1'

Lab Sample ID: 890-716-18

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic 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 06:02	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

Method: 8015B NM - Diesel Range Organics (DRO) (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 07:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/26/21 07:14	1
Total TPH	<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
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 Chromatography - 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

Eurofins Xenco, Carlsbad

Client Sample Results

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

Method: 8021B - Volatile Organic 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 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 07:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 08:49	05/26/21 07:36	1
Oil 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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
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'

Lab Sample ID: 890-716-20

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

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
1,4-Difluorobenzene (Surr)	101		70 - 130	05/24/21 09:50	05/25/21 06:43	1

Method: 8015B NM - Diesel Range Organics (DRO) (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 07:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS10-1'

Lab Sample ID: 890-716-20

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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 08:49	05/26/21 07:57	1
Oil 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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			05/26/21 23:13	1

Client Sample ID: CS11-Surface

Lab Sample ID: 890-716-21

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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 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 09:04	05/26/21 00:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 00:12	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			05/26/21 23:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS11-1'

Lab Sample ID: 890-716-22

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

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 09:37	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 Range Organics (DRO) (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 01:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 01:15	1
Oil 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 Chromatography - 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

Lab Sample ID: 890-716-23

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00353	B	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 Range Organics (DRO) (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

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS12-Surface

Lab Sample ID: 890-716-23

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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 09:04	05/26/21 01:37	1
Oil 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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.39		5.05	mg/Kg			05/26/21 23:37	1

Client Sample ID: CS12-1'

Lab Sample ID: 890-716-24

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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	0.00198	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/24/21 09:37	05/25/21 00:14	1
Xylenes, Total	<0.00396	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	Qualifier	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)

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 01:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 01:57	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.73		4.97	mg/Kg			05/26/21 23:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS13-Surface

Lab Sample ID: 890-716-25

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic 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 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 Range Organics (DRO) (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
Oil 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 Chromatography - 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'

Lab Sample ID: 890-716-26

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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 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 09:04	05/26/21 02:40	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS13-1'

Lab Sample ID: 890-716-26

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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
Oil 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
1-Chlorooctane	103		70 - 130			05/25/21 09:04	05/26/21 02:40	1
o-Terphenyl	101		70 - 130			05/25/21 09:04	05/26/21 02:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	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

Method: 8021B - Volatile Organic 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
Total BTEX	<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)	113		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

Method: 8015B NM - Diesel Range Organics (DRO) (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 03:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 03:01	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.98		5.00	mg/Kg			05/27/21 00:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS14-1'

Lab Sample ID: 890-716-28

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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

Method: 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 09:04	05/26/21 03:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 03:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 03:22	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	05/25/21 09:04	05/26/21 03:22	1
o-Terphenyl	89		70 - 130	05/25/21 09:04	05/26/21 03:22	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

Lab Sample ID: 890-716-29

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

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 09:37	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)	110		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)

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 03:43	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS15-Surface

Lab Sample ID: 890-716-29

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		5.04	mg/Kg			05/27/21 00:16	1

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

Method: 8021B - Volatile Organic Compounds (GC)

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 Range Organics (DRO) (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 04:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 04:04	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.21		5.05	mg/Kg			05/27/21 00:21	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS16-Surface

Lab Sample ID: 890-716-31

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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

Method: 8015B NM - Diesel Range Organics (DRO) (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 04:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 04:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 04:46	1
Total TPH	<49.8	U	49.8	mg/Kg		05/25/21 09:04	05/26/21 04:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	05/25/21 09:04	05/26/21 04:46	1
o-Terphenyl	75		70 - 130	05/25/21 09:04	05/26/21 04:46	1

Method: 300.0 - Anions, Ion Chromatography - 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

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

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/21 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 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		05/26/21 14:55	05/27/21 06:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

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

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 06:05	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.44		5.00	mg/Kg			05/27/21 01:15	1

Client Sample ID: CS17-Surface

Lab Sample ID: 890-716-33

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/25/21 08:50	05/25/21 17:40	1
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

Method: 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 09:04	05/26/21 05:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:29	1
Oil 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	110		70 - 130			05/25/21 09:04	05/26/21 05:29	1
o-Terphenyl	102		70 - 130			05/25/21 09:04	05/26/21 05:29	1

Method: 300.0 - Anions, Ion Chromatography - 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

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS17-1'

Lab Sample ID: 890-716-34

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 18:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 18:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 18:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 18:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 18:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 18:00	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	05/25/21 08:50	05/25/21 18:00	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/25/21 08:50	05/25/21 18:00	1

Method: 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 09:04	05/26/21 05:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:50	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 05:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	05/25/21 09:04	05/26/21 05:50	1
o-Terphenyl	93		70 - 130	05/25/21 09:04	05/26/21 05:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			05/27/21 01:25	1

Client Sample ID: CS18-Surface

Lab Sample ID: 890-716-35

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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 Range Organics (DRO) (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

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS18-Surface

Lab Sample ID: 890-716-35

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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 06:11	1
Oil 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 Chromatography - 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 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic 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
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)

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 06:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 06:32	1
Oil 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 Chromatography - 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

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS19-Surface

Lab Sample ID: 890-716-37

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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 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 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
Oil 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
o-Terphenyl	79		70 - 130	05/25/21 09:04	05/26/21 06:53	1

Method: 300.0 - Anions, Ion Chromatography - 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

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

Method: 8021B - Volatile Organic Compounds (GC)

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 Range Organics (DRO) (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

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

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

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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 07:14	1
Oil 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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			05/27/21 01:54	1

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

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/21 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	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 19:42	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 19:42	1
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
1,4-Difluorobenzene (Surr)	97		70 - 130			05/25/21 08:50	05/25/21 19:42	1

Method: 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 09:04	05/26/21 07:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 07:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 07:36	1
Total TPH	<49.9	U	49.9	mg/Kg		05/25/21 09:04	05/26/21 07:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130			05/25/21 09:04	05/26/21 07:36	1
o-Terphenyl	67	S1-	70 - 130			05/25/21 09:04	05/26/21 07:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			05/27/21 01:59	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS20-1'

Lab Sample ID: 890-716-40

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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 Range Organics (DRO) (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 07:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/25/21 09:04	05/26/21 07:57	1
Oil 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

Lab Sample ID: 890-716-41

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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 Range Organics (DRO) (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

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS21-Surface

Lab Sample ID: 890-716-41

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.4		5.00	mg/Kg			05/27/21 02:09	1

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

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/21 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: 8015B NM - Diesel Range Organics (DRO) (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 21:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:06	1
Oil 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
o-Terphenyl	114		70 - 130			05/24/21 16:09	05/25/21 21:06	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			05/27/21 02:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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

Method: 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		05/24/21 16:09	05/25/21 21:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 21:28	1
Oil 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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	05/24/21 16:09	05/25/21 21:28	1
o-Terphenyl	98		70 - 130	05/24/21 16:09	05/25/21 21:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.10		5.02	mg/Kg			05/27/21 02:28	1

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

Method: 8021B - Volatile Organic Compounds (GC)

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 Range Organics (DRO) (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

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

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

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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 21:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:49	1
Total TPH	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 21:49	1
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 Chromatography - 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

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/25/21 10:23	05/26/21 00:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
Ethylbenzene	<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
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 08:16	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/24/21 13:00	05/25/21 08:16	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 - 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		05/24/21 16:09	05/25/21 22:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/24/21 16:09	05/25/21 22:11	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			05/27/21 02:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-716-1

Client Sample ID: CS23-1'

Lab Sample ID: 890-716-46

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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 Range Organics (DRO) (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 22:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 22:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 22:32	1
Total TPH	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	05/24/21 16:09	05/25/21 22:32	1
o-Terphenyl	104		70 - 130	05/24/21 16:09	05/25/21 22:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.44		5.04	mg/Kg			05/27/21 02:53	1

Eurofins Xenco, Carlsbad

Surrogate Summary

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

Job ID: 890-716-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (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
890-716-1 MS	CS1-Surface	96	99
890-716-1 MSD	CS1-Surface	95	94
890-716-2	CS1-1'	96	100
890-716-3	CS2-Surface	90	97
890-716-4	CS2-1'	89	94
890-716-5	CS3-Surface	93	97
890-716-6	CS3-1'	87	94
890-716-7	CS4-Surface	85	100
890-716-8	CS4-1'	84	94
890-716-9	CS5-Surface	93	96
890-716-10	CS5-1'	95	100
890-716-11	CS6-Surface	93	95
890-716-12	CS6-1'	93	96
890-716-13	CS7-Surface	96	95
890-716-14	CS7-1'	85	101
890-716-15	CS8-Surface	94	97
890-716-16	CS8-1'	92	97
890-716-17	CS9-Surface	84	97
890-716-18	CS9-1'	90	98
890-716-19	CS10-Surface	87	96
890-716-20	CS10-1'	92	101
890-716-21	CS11-Surface	99	112
890-716-21 MS	CS11-Surface	100	126
890-716-21 MSD	CS11-Surface	92	112
890-716-22	CS11-1'	113	139 S1+
890-716-23	CS12-Surface	105	107
890-716-24	CS12-1'	107	115
890-716-25	CS13-Surface	91	114
890-716-26	CS13-1'	122	135 S1+
890-716-27	CS14-Surface	113	138 S1+
890-716-28	CS14-1'	109	110
890-716-29	CS15-Surface	110	123
890-716-30	CS15-1'	119	121
890-716-31	CS16-Surface	92	101
890-716-32	CS16-1'	94	97
890-716-33	CS17-Surface	93	99
890-716-34	CS17-1'	92	99
890-716-35	CS18-Surface	97	101
890-716-36	CS18-1'	91	99
890-716-37	CS19-Surface	93	99
890-716-38	CS19-1'	92	100
890-716-39	CS20-Surface	89	97

Eurofins Xenco, Carlsbad

Surrogate Summary

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)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-716-40	CS20-1'	94	98
890-716-41	CS21-Surface	149 S1+	85
890-716-42	CS21-1'	115	100
890-716-43	CS22-Surface	98	89
890-716-44	CS22-1'	133 S1+	80
890-716-45	CS23-Surface	115	101
890-716-46	CS23-1'	137 S1+	90
LCS 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
LCS 880-3445/1-A	Lab Control Sample	109	104
LCS 880-3457/1-A	Lab Control Sample	98	98
LCSD 880-3389/2-A	Lab Control Sample Dup	99	88
LCSD 880-3390/2-A	Lab Control Sample Dup	90	111
LCSD 880-3392/2-A	Lab Control Sample Dup	98	103
LCSD 880-3445/2-A	Lab Control Sample Dup	102	104
LCSD 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			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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

Eurofins Xenco, Carlsbad

Surrogate Summary

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (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-surface	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	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

Eurofins Xenco, Carlsbad

Surrogate Summary

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)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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							
OTPH = o-Terphenyl							

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)

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

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB Qualifier	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

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

Eurofins Xenco, Carlsbad

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: MB 880-3389/5-A

Matrix: Solid

Analysis Batch: 3388

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3389

Analyte	MB Result	MB 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	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 01:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 13:00	05/25/21 01:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 13:00	05/25/21 01:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 13:00	05/25/21 01:12	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 13:00	05/25/21 01:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05/24/21 13:00	05/25/21 01:12	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/24/21 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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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

Surrogate	LCS %Recovery	LCS 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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.100	0.08179		mg/Kg		82	70 - 130

Eurofins Xenco, Carlsbad

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	94		70 - 130						

Lab Sample ID: 820-756-A-11-H MSD

Matrix: Solid

Analysis Batch: 3388

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3389

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	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
Surrogate	MSD %Recovery	MSD 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	MB Result	MB 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
Surrogate	MB %Recovery	MB 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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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

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

Matrix: Solid

Analysis Batch: 3387

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: LCSD 880-3390/2-A

Matrix: Solid

Analysis Batch: 3387

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3390

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08321		mg/Kg		83	70 - 130	7	35
Toluene	0.100	0.08729		mg/Kg		87	70 - 130	0	35
Ethylbenzene	0.100	0.08469		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1699		mg/Kg		85	70 - 130	5	35
o-Xylene	0.100	0.08503		mg/Kg		85	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 890-716-21 MS

Matrix: Solid

Analysis Batch: 3387

Client Sample ID: CS11-Surface

Prep Type: Total/NA

Prep Batch: 3390

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	126		70 - 130

Lab Sample ID: 890-716-21 MSD

Matrix: Solid

Analysis Batch: 3387

Client Sample ID: CS11-Surface

Prep Type: Total/NA

Prep Batch: 3390

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%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

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)

	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

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/24/21 22:52	1	
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/24/21 22:52	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/24/21 22:52	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/24/21 22:52	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/21 09:50	05/24/21 22:52	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/24/21 22:52	1	
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/24/21 09:50	05/24/21 22:52	1	

	MB	MB							
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	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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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: 890-716-1 MS

Matrix: Solid

Analysis Batch: 3386

Client Sample ID: CS1-Surface

Prep Type: Total/NA

Prep Batch: 3392

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1 F2	0.100	0.04811	F1	mg/Kg		48	70 - 130
Toluene	<0.00202	U F1	0.100	0.02738	F1	mg/Kg		27	70 - 130
Ethylbenzene	<0.00202	U F1	0.100	0.03452	F1	mg/Kg		34	70 - 130
m-Xylene & p-Xylene	<0.00403	U F1	0.201	0.06084	F1	mg/Kg		30	70 - 130
o-Xylene	<0.00202	U F1	0.100	0.04803	F1	mg/Kg		48	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	96		70 - 130						
1,4-Difluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: 890-716-1 MSD

Matrix: Solid

Analysis Batch: 3386

Client Sample ID: CS1-Surface

Prep Type: Total/NA

Prep Batch: 3392

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1 F2	0.100	0.02878	F1 F2	mg/Kg		29	70 - 130	50	35
Toluene	<0.00202	U F1	0.100	0.02007	F1	mg/Kg		20	70 - 130	31	35
Ethylbenzene	<0.00202	U F1	0.100	0.02739	F1	mg/Kg		27	70 - 130	23	35
m-Xylene & p-Xylene	<0.00403	U F1	0.200	0.04762	F1	mg/Kg		24	70 - 130	24	35
o-Xylene	<0.00202	U F1	0.100	0.03778	F1	mg/Kg		38	70 - 130	24	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	95		70 - 130								
1,4-Difluorobenzene (Surr)	94		70 - 130								

Lab Sample ID: MB 880-3445/5-A

Matrix: Solid

Analysis Batch: 3448

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3445

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 12:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 12:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 12:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 12:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/21 08:50	05/25/21 12:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 12:11	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/25/21 08:50	05/25/21 12:11	1
Surrogate	MB %Recovery	MB 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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1096		mg/Kg		110	70 - 130

Eurofins Xenco, Carlsbad

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 880-3445/1-A

Matrix: Solid

Analysis Batch: 3448

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
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

Prep Type: Total/NA

Prep Batch: 3445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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
m-Xylene & p-Xylene	<0.00400	U	0.199	0.2310		mg/Kg		116	70 - 130
o-Xylene	<0.00200	U	0.0996	0.1133		mg/Kg		114	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-2390-A-1-I MSD

Matrix: Solid

Analysis Batch: 3448

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	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

Eurofins Xenco, Carlsbad

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: 880-2390-A-1-I MSD

Matrix: Solid

Analysis Batch: 3448

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	<0.00200	U	0.0998	0.08300		mg/Kg		83	70 - 130	31	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	86		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

Lab Sample ID: MB 880-3457/5-A

Matrix: Solid

Analysis Batch: 3460

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3457

Analyte	MB Result	MB 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	U	0.00400	mg/Kg		05/25/21 10:23	05/25/21 20:13	1
Surrogate	MB %Recovery	MB 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

Matrix: Solid

Analysis Batch: 3460

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3457

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			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		
										</	

Lab Sample ID: LCSD 880-3457/2-A

Matrix: Solid

Analysis Batch: 3460

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3457

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
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
o-Xylene	0.100	0.07541		mg/Kg		75	70 - 130	17	35

Eurofins Xenco, Carlsbad

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)

	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

Matrix: Solid

Analysis Batch: 3460

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3457

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-715-A-11-F MSD

Matrix: Solid

Analysis Batch: 3460

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3457

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	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	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-3460/8

Matrix: Solid

Analysis Batch: 3460

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB 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		

Eurofins Xenco, Carlsbad

QC Sample Results

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

Analyte	MB Result	MB 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 13:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/21 16:09	05/25/21 13:27	1
Oil 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

Surrogate	MB %Recovery	MB 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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	831.1		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1099		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS 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 Dup

Prep Type: Total/NA

Prep Batch: 3429

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	850.2		mg/Kg		85	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1106		mg/Kg		111	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	878.0		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1186		mg/Kg		119	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

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: 890-715-A-1-E MS

Matrix: Solid

Analysis Batch: 3438

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3429

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 890-715-A-1-F MSD

Matrix: Solid

Analysis Batch: 3438

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	874.8		mg/Kg		85	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1162		mg/Kg		117	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: MB 880-3444/1-A

Matrix: Solid

Analysis Batch: 3440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3444

Analyte	MB Result	MB 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	05/25/21 23:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/25/21 08:49	05/25/21 23:09	1
Oil 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	Prepared	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

Analysis Batch: 3440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	853.2		mg/Kg		85	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1022		mg/Kg		102	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	101		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	890.1		mg/Kg		89	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1015		mg/Kg		102	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	119		70 - 130						
o-Terphenyl	100		70 - 130						

Lab Sample ID: 890-716-1 MS

Matrix: Solid

Analysis Batch: 3440

Client Sample ID: CS1-Surface

Prep Type: Total/NA

Prep Batch: 3444

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	755.9		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	925.4		mg/Kg		93	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	840.4		mg/Kg		84	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1038		mg/Kg		104	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	80		70 - 130								

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

Analyte	MB Result	MB 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
Oil 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

Eurofins Xenco, Carlsbad

QC Sample Results

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

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	05/25/21 09:04	05/25/21 23:09	1
o-Terphenyl	102		70 - 130	05/25/21 09:04	05/25/21 23:09	1

Lab Sample ID: LCS 880-3450/2-A

Matrix: Solid

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 (GRO)-C6-C10			1000	889.8		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	951.3		mg/Kg		95	70 - 130		

	LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	103		70 - 130			
o-Terphenyl	95		70 - 130			

Lab Sample ID: LCSD 880-3450/3-A

Matrix: Solid

Analysis Batch: 3442

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 (GRO)-C6-C10			1000	830.7		mg/Kg		83	70 - 130	7	20	
Diesel Range Organics (Over C10-C28)			1000	973.8		mg/Kg		97	70 - 130	2	20	

	LCSD	LCSD				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	106		70 - 130			
o-Terphenyl	97		70 - 130			

Lab Sample ID: 890-716-21 MS

Matrix: Solid

Analysis Batch: 3442

Client Sample ID: CS11-Surface

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 (GRO)-C6-C10	<49.9	U	996	767.9		mg/Kg		75	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	883.9		mg/Kg		89	70 - 130		

	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	83		70 - 130			
o-Terphenyl	70		70 - 130			

Eurofins Xenco, Carlsbad

QC Sample Results

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

Matrix: Solid

Analysis Batch: 3442

Client Sample ID: CS11-Surface

Prep Type: Total/NA

Prep Batch: 3450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	758.6		mg/Kg		74	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	935.2		mg/Kg		94	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	88		70 - 130								
o-Terphenyl	74		70 - 130								

Lab Sample ID: MB 880-3539/1-A

Matrix: Solid

Analysis Batch: 3502

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3539

Analyte	MB Result	MB 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
Oil 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
Surrogate	MB %Recovery	MB 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

Matrix: Solid

Analysis Batch: 3502

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	969.2		mg/Kg		97	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1108		mg/Kg		111	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane	106		70 - 130					
o-Terphenyl	87		70 - 130					

Lab Sample ID: LCSD 880-3539/3-A

Matrix: Solid

Analysis Batch: 3502

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3539

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	872.1		mg/Kg		87	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	996.4		mg/Kg		100	70 - 130	11	20

Eurofins Xenco, Carlsbad

QC Sample Results

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 880-3539/3-A

Matrix: Solid

Analysis Batch: 3502

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3539

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 880-2503-A-21-B MS

Matrix: Solid

Analysis Batch: 3502

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3539

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	789.6		mg/Kg		79	70 - 130	
Diesel Range Organics (Over C10-C28)	63.5		996	846.9		mg/Kg		79	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	88		70 - 130							
o-Terphenyl	73		70 - 130							

Lab Sample ID: 880-2503-A-21-C MSD

Matrix: Solid

Analysis Batch: 3502

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3539

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	798.7		mg/Kg		80	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	63.5		996	866.8		mg/Kg		81	70 - 130	2	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	89		70 - 130									
o-Terphenyl	73		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3424/1-A

Matrix: Solid

Analysis Batch: 3485

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			05/26/21 19:03	1		

Lab Sample ID: LCS 880-3424/2-A

Matrix: Solid

Analysis Batch: 3485

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS						%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	254.3		mg/Kg		102	90 - 110			

Eurofins Xenco, Carlsbad

QC Sample Results

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

Job ID: 890-716-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-3424/3-A

Matrix: Solid

Analysis Batch: 3485

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	254.1		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-716-1 MS

Matrix: Solid

Analysis Batch: 3485

Client Sample ID: CS1-Surface

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<5.04	U	252	262.1		mg/Kg		102	90 - 110		

Lab Sample ID: 890-716-1 MSD

Matrix: Solid

Analysis Batch: 3485

Client Sample ID: CS1-Surface

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<5.04	U	252	261.6		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-3451/1-A

Matrix: Solid

Analysis Batch: 3486

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/26/21 21:54	1

Lab Sample ID: LCS 880-3451/2-A

Matrix: Solid

Analysis Batch: 3486

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	256.5		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-3451/3-A

Matrix: Solid

Analysis Batch: 3486

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	256.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-716-11 MS

Matrix: Solid

Analysis Batch: 3486

Client Sample ID: CS6-Surface

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15.2		248	262.4		mg/Kg		100	90 - 110		

Lab Sample ID: 890-716-11 MSD

Matrix: Solid

Analysis Batch: 3486

Client Sample ID: CS6-Surface

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15.2		248	261.6		mg/Kg		99	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

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

Job ID: 890-716-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-716-21 MS

Matrix: Solid

Analysis Batch: 3486

Client Sample ID: CS11-Surface

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Client Sample ID: CS11-Surface

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	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

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/27/21 00:46	1

Lab Sample ID: LCS 880-3455/2-A

Matrix: Solid

Analysis Batch: 3533

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	257.1		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-3455/3-A

Matrix: Solid

Analysis Batch: 3533

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	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

Client Sample ID: CS16-Surface

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Client Sample ID: CS16-Surface

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<4.96	U	248	256.9		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-716-41 MS

Matrix: Solid

Analysis Batch: 3533

Client Sample ID: CS21-Surface

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	18.4		250	272.7		mg/Kg		102	90 - 110

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QC Sample Results

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

Job ID: 890-716-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-716-41 MSD					Client Sample ID: CS21-Surface							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 3533												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	18.4		250	272.6		mg/Kg		102	90 - 110	0	20	

QC Association Summary

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-Surface	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

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QC Association Summary

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

Job ID: 890-716-1

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 Batch
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

QC Association Summary

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 Batch
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-Surface	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

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-31	CS16-Surface	Total/NA	Solid	8021B	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

QC Association Summary

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

QC Association Summary

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-Surface	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

QC Association Summary

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

Job ID: 890-716-1

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 Batch
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	
890-716-15	CS8-Surface	Total/NA	Solid	8015NM Prep	
890-716-16	CS8-1'	Total/NA	Solid	8015NM Prep	
890-716-17	CS9-Surface	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	
LCS 880-3444/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3444/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-716-1 MS	CS1-Surface	Total/NA	Solid	8015NM Prep	
890-716-1 MSD	CS1-Surface	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

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

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-1	CS1-Surface	Soluble	Solid	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	

Eurofins Xenco, Carlsbad

QC Association Summary

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-Surface	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	

Eurofins Xenco, Carlsbad

QC Association Summary

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	3451
890-716-12	CS6-1'	Soluble	Solid	300.0	3451
890-716-13	CS7-Surface	Soluble	Solid	300.0	3451
890-716-14	CS7-1'	Soluble	Solid	300.0	3451
890-716-15	CS8-Surface	Soluble	Solid	300.0	3451
890-716-16	CS8-1'	Soluble	Solid	300.0	3451
890-716-17	CS9-Surface	Soluble	Solid	300.0	3451
890-716-18	CS9-1'	Soluble	Solid	300.0	3451
890-716-19	CS10-Surface	Soluble	Solid	300.0	3451
890-716-20	CS10-1'	Soluble	Solid	300.0	3451
890-716-21	CS11-Surface	Soluble	Solid	300.0	3451
890-716-22	CS11-1'	Soluble	Solid	300.0	3451
890-716-23	CS12-Surface	Soluble	Solid	300.0	3451
890-716-24	CS12-1'	Soluble	Solid	300.0	3451

Eurofins Xenco, Carlsbad

QC Association Summary

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	3455
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

Lab Chronicle

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

Job ID: 890-716-1

Client Sample ID: CS1-Surface

Lab Sample ID: 890-716-1

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-2

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-716-3

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-4

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Job ID: 890-716-1

Client Sample ID: CS3-Surface

Lab Sample ID: 890-716-5

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-6

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 00:55	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 02:40	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 21:10	CH	XEN MID

Client Sample ID: CS4-Surface

Lab Sample ID: 890-716-7

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	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 21:15	CH	XEN MID

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

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

Lab Sample ID: 890-716-9

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-10

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-716-11

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-12

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Job ID: 890-716-1

Client Sample ID: CS7-Surface

Lab Sample ID: 890-716-13

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-14

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-716-15

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-16

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Soluble	Analysis	300.0		1			3486	05/26/21 22:58	CH	XEN MID

Client Sample ID: CS9-1'

Lab Sample ID: 890-716-18

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

Job ID: 890-716-1

Client Sample ID: CS11-Surface

Lab Sample ID: 890-716-21

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Soluble	Analysis	300.0		1			3486	05/26/21 23:18	CH	XEN MID

Client Sample ID: CS11-1'

Lab Sample ID: 890-716-22

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-716-23

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-24

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Job ID: 890-716-1

Client Sample ID: CS13-Surface

Lab Sample ID: 890-716-25

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-26

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-716-27

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-28

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Job ID: 890-716-1

Client Sample ID: CS15-Surface

Lab Sample ID: 890-716-29

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-30

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-716-31

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-32

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Job ID: 890-716-1

Client Sample ID: CS17-Surface

Lab Sample ID: 890-716-33

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 17:40	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		1			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
Soluble	Analysis	300.0		1			3533	05/27/21 01:20	CH	XEN MID

Client Sample ID: CS17-1'

Lab Sample ID: 890-716-34

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-716-35

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-36

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Job ID: 890-716-1

Client Sample ID: CS19-Surface

Lab Sample ID: 890-716-37

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Soluble	Leach	DI Leach			5.02 g	50 mL	3455	05/25/21 10:05	SC	XEN MID
Soluble	Analysis	300.0		1			3533	05/27/21 01:49	CH	XEN MID

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-716-39

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-40

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Job ID: 890-716-1

Client Sample ID: CS21-Surface

Lab Sample ID: 890-716-41

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

Job ID: 890-716-1

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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'

Lab Sample ID: 890-716-46

Date Collected: 05/21/21 00:00

Matrix: Solid

Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

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

Job ID: 890-716-1

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI 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

Sample Summary

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

Job ID: 890-716-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-716-1	CS1-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-2	CS1-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-3	CS2-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-4	CS2-1'	Solid	05/21/21 00:00	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-Surface	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	
890-716-45	CS23-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-46	CS23-1'	Solid	05/21/21 00:00	05/21/21 13:48	

Eurofins Xenco, Carlsbad



Environment Testing
Xenco

Chain of Custody


Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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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 1 of 5

Project Manager:	Tom Bynum	Bill to: (if different)	Deven Energy
Company Name:	PIMA	Company Name:	
Address:	1601 N. Turner St.	Address:	
City, State ZIP:	Hobbs, NM 88220	City, State ZIP:	
Phone:		Email:	

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes				
Project Number:		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code														None: NO DI Water: H ₂ O		
Project Location:		Due Date:		Parameters TPH BTEX CL		 890-716 Chain of Custody												Cool: Cool MeOH: Me		
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC HNO ₃ : HN		
PO #:																		H ₂ SO ₄ : H ₂ NaOH: Na		
																		H ₃ PO ₄ : HP		
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													NaHSO ₄ : NABIS		
Samples Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	7 NM-203														Na ₂ S ₂ O ₃ : NaSO ₃		
Cooler Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	-0.2														Zn Acetate+NaOH: Zn		
Sample Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	24.4														NaOH+Ascorbic Acid: SAPC		
Total Containers:				Corrected Temperature:	24.2															
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont													Sample Comments	
CS1-Surface	Soil	5/21/21			G	1														
CS1-1'																				
CS2-Surface																				
CS2-1'																				
CS3-Surface																				
CS3-1'																				
CS4-Surface																				
CS4-1'																				
CS5-Surface																				
CS5-1'																				

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471	

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
<i>[Signature]</i>	<i>[Signature]</i>	5-21-21 1348			

Revised Date: 08/25/2020 Rev. 2020.2



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 Environment Testing
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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 2 of 5

Project Manager:	<i>pg #1</i>	Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

Project Name:		Turn Around		ANALYSIS REQUEST																Preservative Codes			
Project Number:		<input type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code																		None: NO DI Water: H ₂ O	
Project Location:		Due Date:		Parameters		<i>TPH</i> <i>BTEX</i> <i>CL</i>																Cool: Cool MeOH: Me	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO ₃ : HN	
PO #:																						H ₂ SO ₄ : H ₂ NaOH: Na	
																						H ₃ PO ₄ : HP	
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No																		
Samples Received Intact:		Yes No		Thermometer ID:																		NaHSO ₄ : NABIS	
Cooler Custody Seals:		Yes No N/A		Correction Factor:																		Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		Yes No N/A		Temperature Reading:																		Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:																		NaOH+Ascorbic Acid: SAPC	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments
CS6-Surface	Soil	5/21/21			61	1																	
CS6-1'																							
CS7-Surface																							
CS7-1'																							
CS8-Surface																							
CS8-1'																							
CS9-Surface																							
CS9-1'																							
CS10-Surface																							
CS10-1'																							

Total 200.7/6010	200.8/6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP/SPLP 0010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631/245.1/7470/7471	

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	5-21-21 1348			



Environment Testing
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Work Order No: _____

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Page 3 of 5

Project Manager:			Bill to: (if different)		
Company Name:			Company Name:		
Address:			Address:		
City, State ZIP:			City, State ZIP:		
Phone:			Email:		

Work Order Comments									
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:									

Project Name:		Turn Around		ANALYSIS REQUEST										Preservative Codes							
Project Number:		<input type="checkbox"/> Routine <input type="checkbox"/> Rush												None: NO DI Water: H ₂ O							
Project Location:		Due Date:												Cool: Cool MeOH: Me							
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm												HCL: HC HNO ₃ : HN							
PO #:														H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No												H ₃ PO ₄ : HP	
Samples Received Intact:		Yes No		Thermometer ID:																NaHSO ₄ : NABIS	
Cooler Custody Seals:		Yes No N/A		Correction Factor:																Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		Yes No N/A		Temperature Reading:																Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:																NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters										Sample Comments
CS11-Surface	Soil	5/21/21			G	1	<div style="display: flex; justify-content: space-around; font-size: 2em;"> TPH BTEX CL </div>										
CS11-1'																	
CS12-Surface																	
CS12-1'																	
CS13-Surface																	
CS13-1'																	
CS14-Surface																	
CS14-1'																	
CS15-Surface																	
CS15-1'																	

Total 200.7 / 6010 200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn																	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471																	

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	5-21-21 1348			

Revised Date: 08/25/2020 Rev. 2020.2



Environment Testing
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Chain of Custody

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Bill to: (if different)
Company Name:	Company Name:
Address:	Address:
City, State ZIP:	City, State ZIP:
Phone:	Email:

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

Project Name:		Turn Around		ANALYSIS REQUEST																Preservative Codes			
Project Number:		<input type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code																		None: NO DI Water: H ₂ O	
Project Location:		Due Date:		Parameters																		Cool: Cool MeOH: Me	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO ₃ : HN	
PO #:																						H ₂ SO ₄ : H ₂ NaOH: Na	
																						H ₃ PO ₄ : HP	
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No																	NaHSO ₄ : NABIS	
Samples Received Intact:		Yes No		Thermometer ID:																		Na ₂ S ₂ O ₃ : NaSO ₃	
Cooler Custody Seals:		Yes No N/A		Correction Factor:																		Zn Acetate+NaOH: Zn	
Sample Custody Seals:		Yes No N/A		Temperature Reading:																		NaOH+Ascorbic Acid: SAPC	
Total Containers:				Corrected Temperature:																			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments
CS16-Surface	Soil	5/21/21			6	1																	
CS16-1'																							
CS17-Surface																							
CS17-1'																							
CS18-Surface																							
CS18-1'																							
CS19-Surface																							
CS19-1'																							
CS20-Surface																							
CS20-1'																							

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471	

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	5-21-21 1348 ²			



Environment Testing
Xenco

Chain of Custody

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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: _____

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Page 5 of 5

Project Manager:	Bill to: (if different)
Company Name:	Company Name:
Address:	Address:
City, State ZIP:	City, State ZIP:
Phone:	Email:

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

Project Name:		Turn Around		ANALYSIS REQUEST																Preservative Codes					
Project Number:		<input type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code																		None: NO DI Water: H ₂ O			
Project Location:		Due Date:		Parameters																		Cool: Cool MeOH: Me			
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO ₃ : HN			
PO #:																						H ₂ SO ₄ : H ₂ NaOH: Na			
																						H ₃ PO ₄ : HP			
SAMPLE RECEIPT		Temp Blank: Yes No		Wet Ice: Yes No																		NaHSO ₄ : NABIS			
Samples Received Intact:		Yes No		Thermometer ID:																		Na ₂ S ₂ O ₃ : NaSO ₃			
Cooler Custody Seals:		Yes No N/A		Correction Factor:																		Zn Acetate+NaOH: Zn			
Sample Custody Seals:		Yes No N/A		Temperature Reading:																		NaOH+Ascorbic Acid: SAPC			
Total Containers:				Corrected Temperature:																					
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments	
CS21-Surface		Soil	5/21/21			G	1																		
CS21-1'																									
CS22-Surface																									
CS22-1'																									
CS23-Surface																									
CS23-1'																									

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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
<i>Releasary J.</i>	<i>Car Cup</i>	5-21-21 1340			
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020 2

Ver 11/01/2020

Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad, NM 88220

Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody RecordEnvironment Testing
America

5/28/2021

Client Information (Sub Contract Lab)		Sampler		Lab PM		Carrier Tracking No(s)		COC No:				
Client Contact:		Phone:		E-Mail		State of Origin:		Page				
Shipping/Receiving				holly.taylor@eurofinset.com		New Mexico		Page 3 of 6				
Company Eurofins Xenco				Accreditations Required (See note) NELAP - Texas				Job #:				
Address 1211 W Florida Ave				Due Date Requested 5/27/2021				890-716-1				
City Midland				TAT Requested (days):				Preservation Codes				
State, Zip: TX, 79701								A - HCL M - Hexane				
Phone: 432-704-5440(Tel)				PO #:				B - NaOH N - None				
Email				WO #:				C - Zn Acetate O - AsNaO2				
Project Name: Mizar 11 Fed Com 14				Project #: 89000051				D - Nitric Acid P - Na2O4S				
Site:				SSOW#:				E - NaHSO4 Q - Na2SO3				
								F - MeOH R - Na2S2O3				
								G - Amchlor S - H2SO4				
								H - Ascorbic Acid T - TSP Dodecahydrate				
								I - Ice U - Acetone				
								J - DI Water V - MCAA				
								K - EDTA W - pH 4-5				
								L - EDTA Z - other (specify)				
								Other:				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform IMS/MSD (Yes or No)	8021B/6036FP_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8016MOD_NM/8016NM_S_Prep Full TPH	Total Number of Containers	Special Instructions/Note:
CS10-Surface (890-716-19)	5/21/21	Mountain		Solid			X	X	X		1	
CS10-1' (890-716-20)	5/21/21	Mountain		Solid			X	X	X		1	
CS11-Surface (890-716-21)	5/21/21	Mountain		Solid			X	X	X		1	
CS11-1' (890-716-22)	5/21/21	Mountain		Solid			X	X	X		1	
CS12-Surface (890-716-23)	5/21/21	Mountain		Solid			X	X	X		1	
CS12-1' (890-716-24)	5/21/21	Mountain		Solid			X	X	X		1	
CS13-Surface (890-716-25)	5/21/21	Mountain		Solid			X	X	X		1	
CS13-1' (890-716-26)	5/21/21	Mountain		Solid			X	X	X		1	
CS14-Surface (890-716-27)	5/21/21	Mountain		Solid			X	X	X		1	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.</p>												
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements						
Empty Kit Relinquished by						Date						
Relinquished by: <i>Joe Cuff</i>						Date/Time: <i>5-21-21</i>						
Relinquished by:						Date/Time:						
Relinquished by:						Date/Time:						
Custody Seals Intact						Cooler Temperature(s) °C and Other Remarks						
Δ Yes Δ No												

Ver 11/01/2020

Page 90 of 92

Released to Imaging: 2/2/2023 8:12:44 AM

Login Sample Receipt Checklist

Client: EOR/Ridgeway Arizona Oil Corp

Job Number: 890-716-1

SDG Number:

Login Number: 716

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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:

Login Number: 716

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 05/24/21 10:13 AM

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 <6mm (1/4").	True	

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

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

CONDITIONS

Action 180262

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 180262
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/2/2023