Form C-141
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State of New Mexico
Oil Conservation Division

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?	<50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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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: Dale Woodall Title: EHS Professional

Signature: Dale Woodall Date: 1/4/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 01/04/2023

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State of New Mexico
Oil Conservation Division

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: Dale Woodall Title: EHS Professional

Signature: Dale Woodall Date: 1/4/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 01/04/2023

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: _____ Date: _____

Printed Name: _____ Title: _____

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

January 3, 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 the remediate the affected area. We continued to take samples from the sidewalls to confirm that the contamination had been removed horizontally. The results of this sampling event can be seen in the following data table.

1-8-21 Soil Sample Results

NMOCD 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

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

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.

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

NMOCD 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	Cl 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 and Geological Data
Appendix C - C-141 Form & 48-Hour Notification
Appendix D - Photographic Documentation
Appendix E - Laboratory Reports

Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

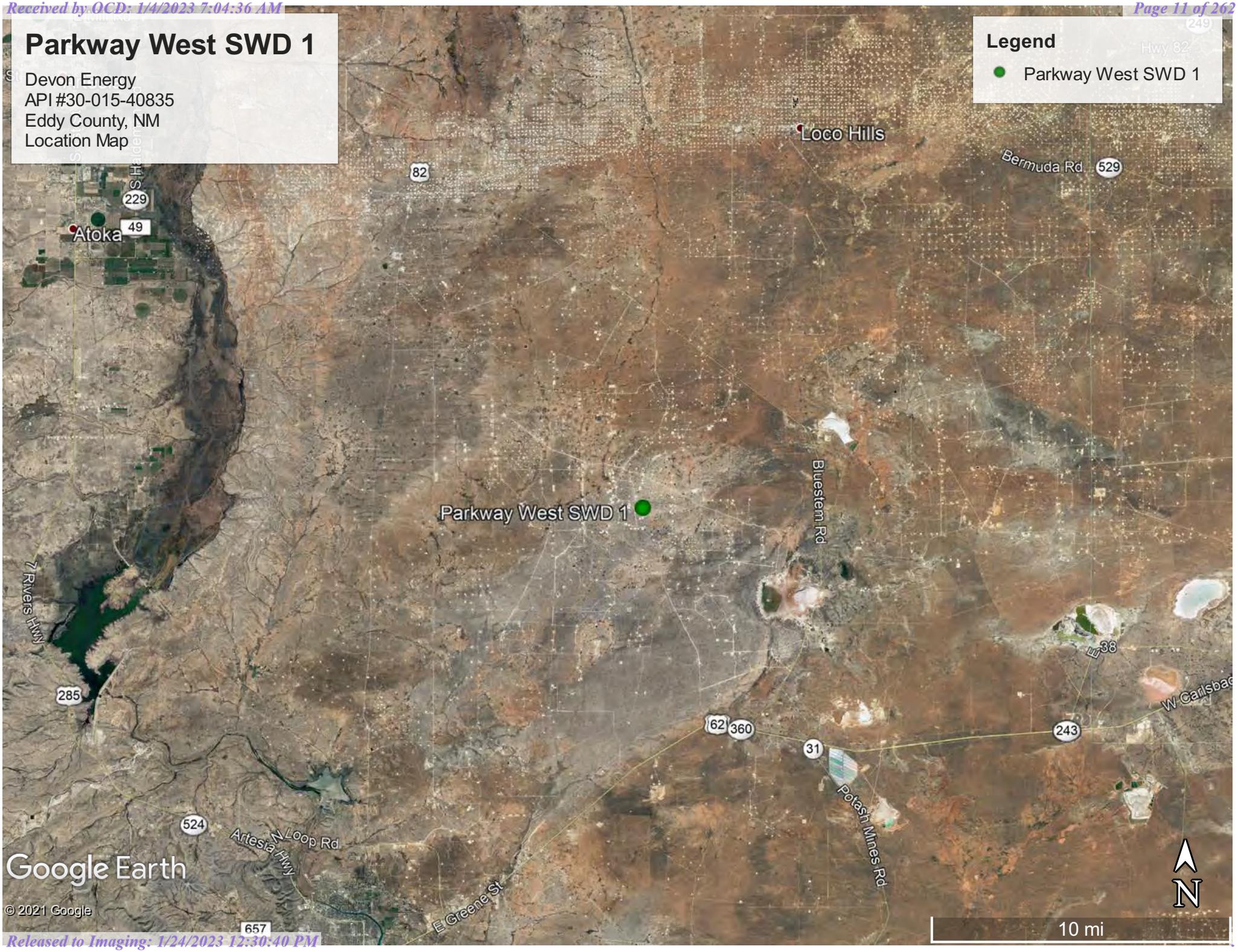
3-Karst Map

4-Site Map

5-GeoProbe Map

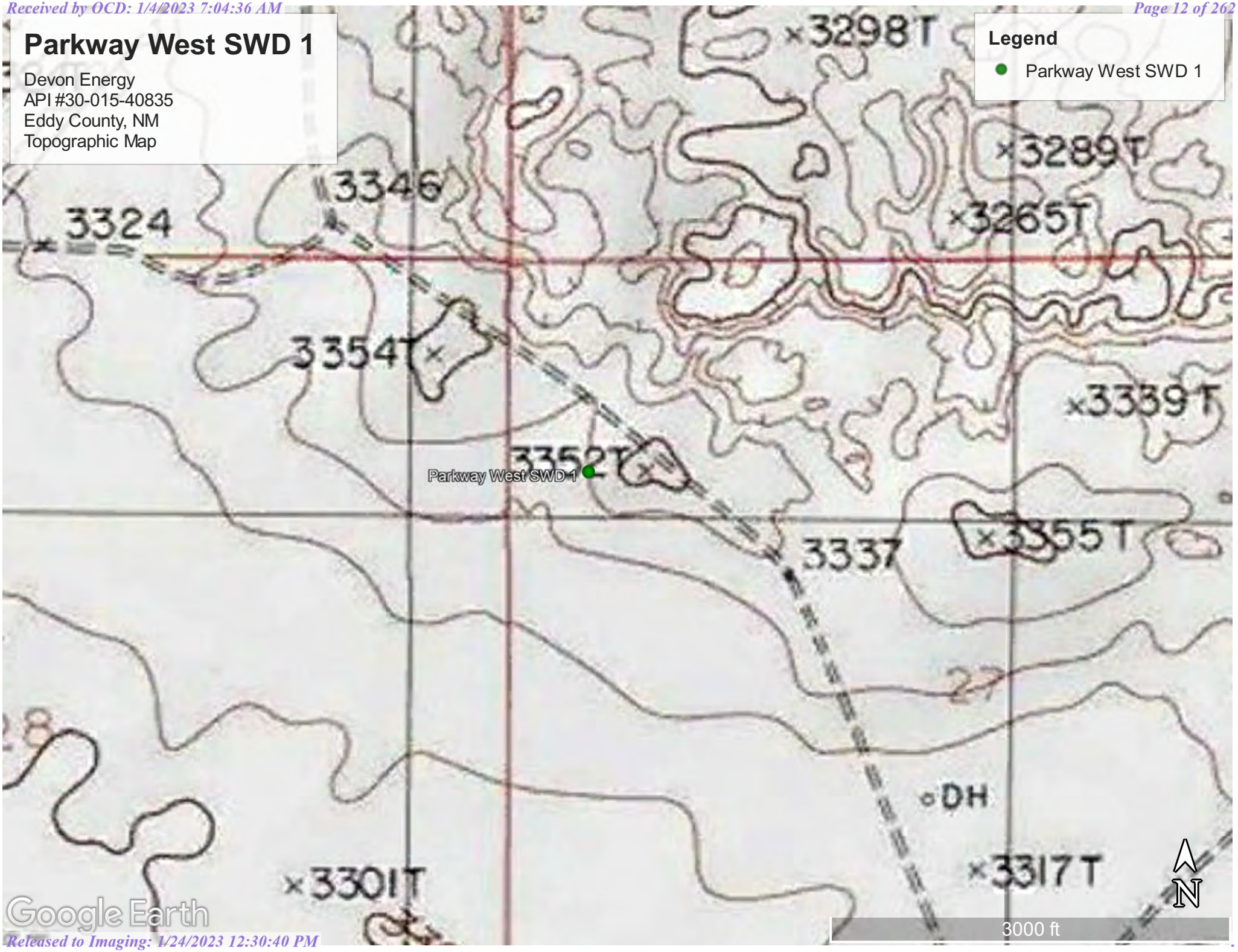
6-Excavation Map-Sidewalls

7-Confirmation Sample Map


Parkway West SWD 1
Devon Energy
API #30-015-40835
Eddy County, NM
Location Map
Legend
Parkway West SWD 1
Loco Hills
Bermuda Rd
529
82
229
Atoka
49
Parkway West SWD 1
Bluestem Rd
7 Rivers Hwy
285
62
360
31
243
38
W Carlsbad
Potash Mines Rd
524
Artesia Hwy
N Loop Rd
E Greene St
657
Google Earth
© 2021 Google
N
10 mi

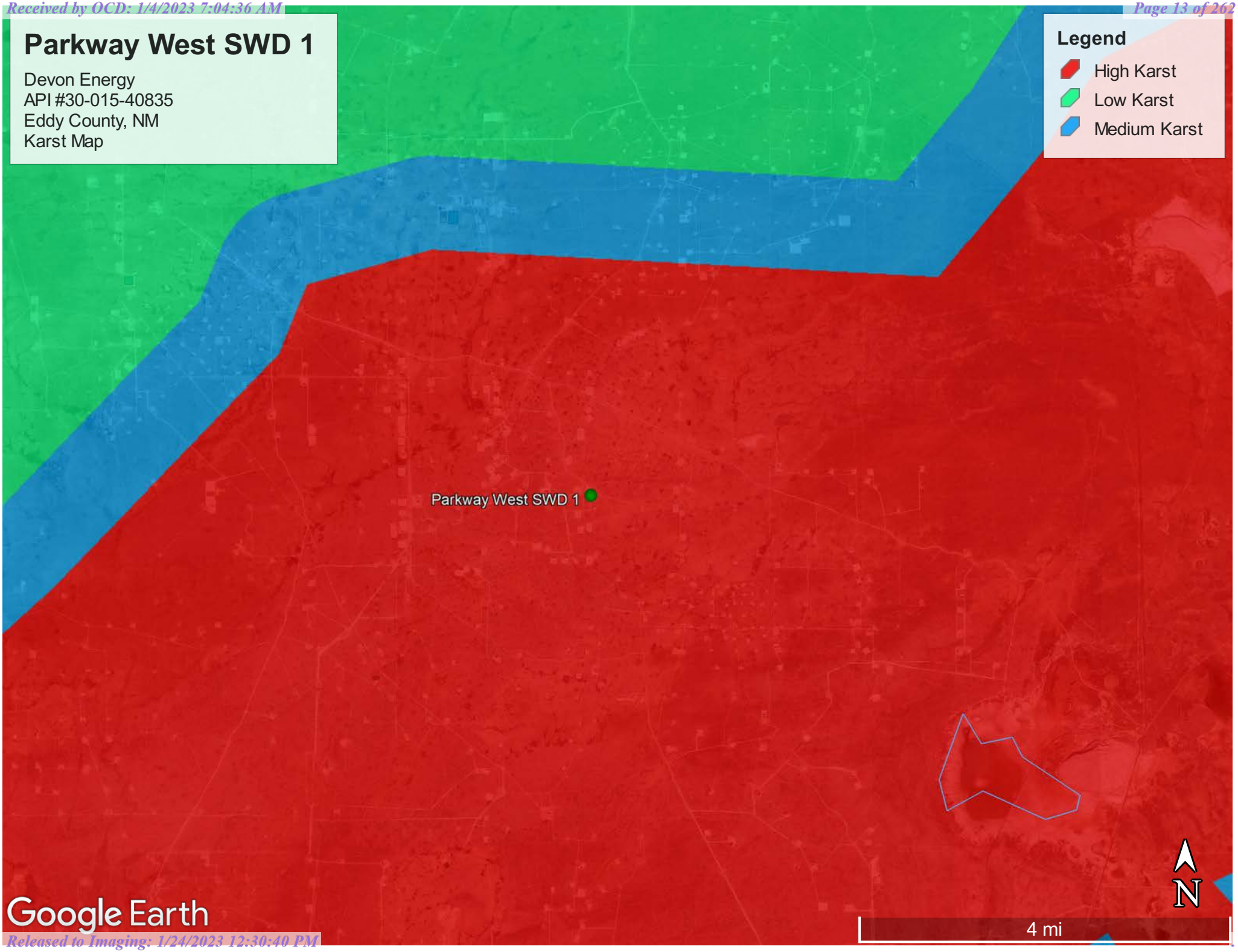
Parkway West SWD 1

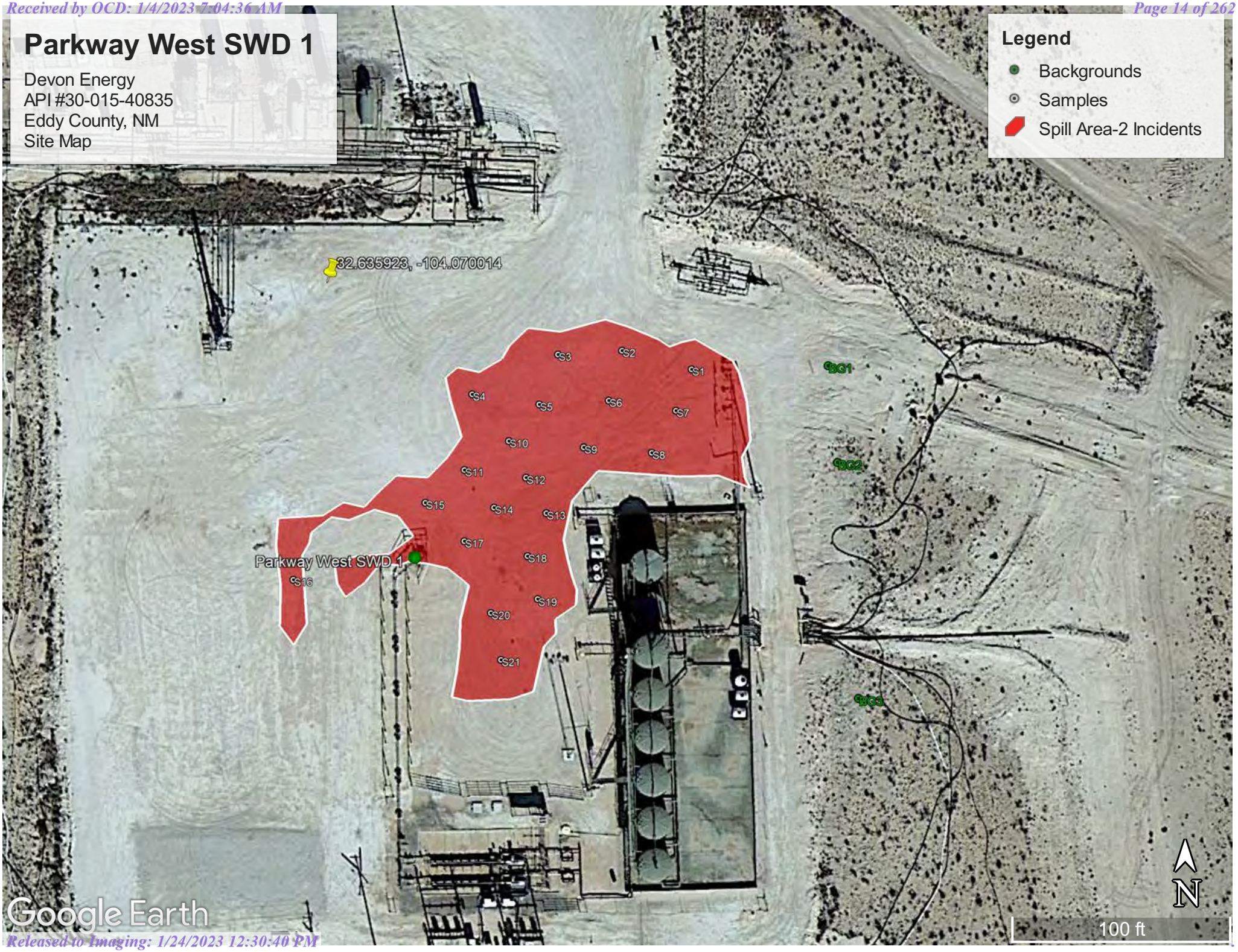
Devon Energy
API #30-015-40835
Eddy County, NM
Topographic Map



Parkway West SWD 1

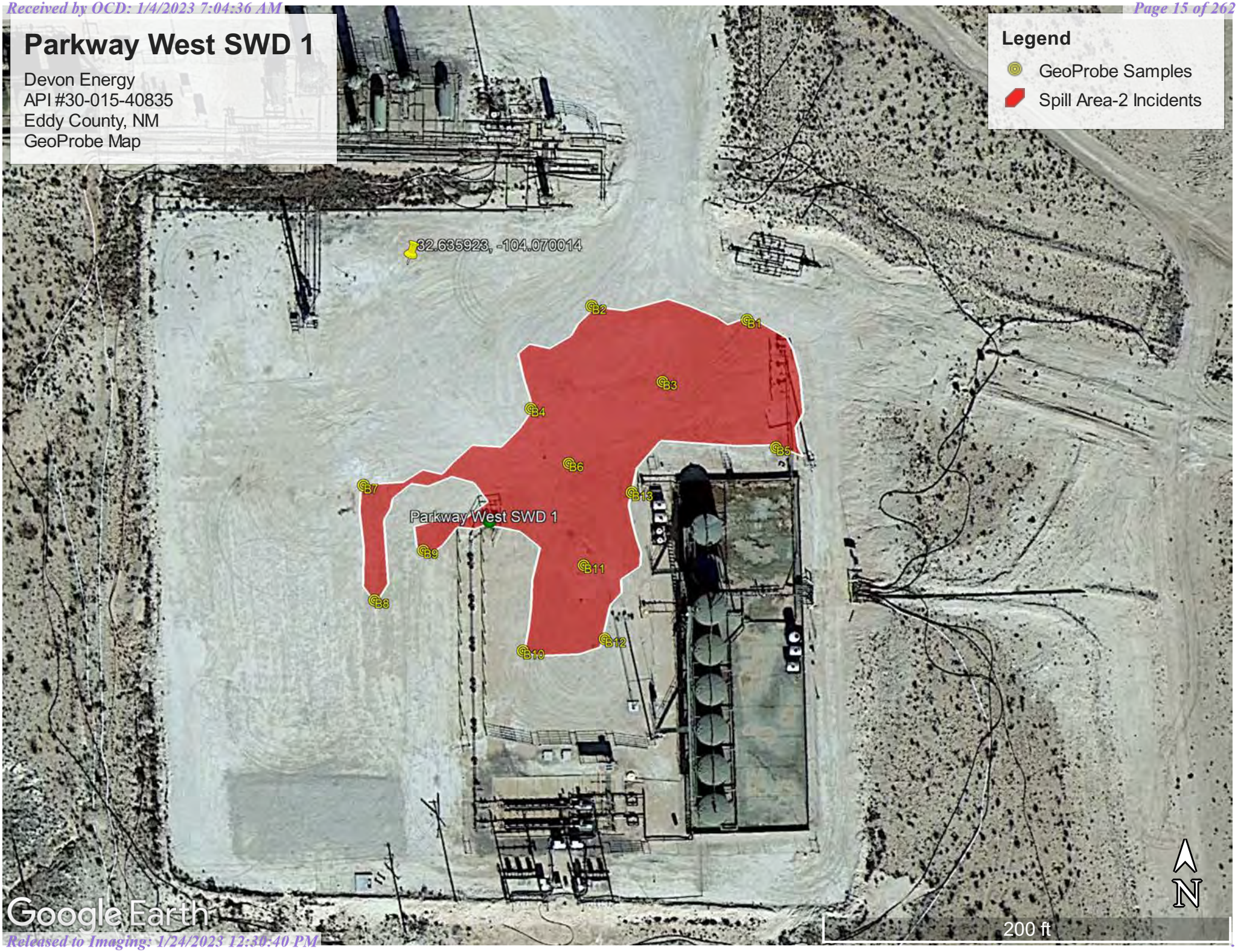
Devon Energy
API #30-015-40835
Eddy County, NM
Karst Map




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
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
S17
S18
S19
S20
S21
BG1
BG2
BG3
N
100 ft
Google Earth

Parkway West SWD 1

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

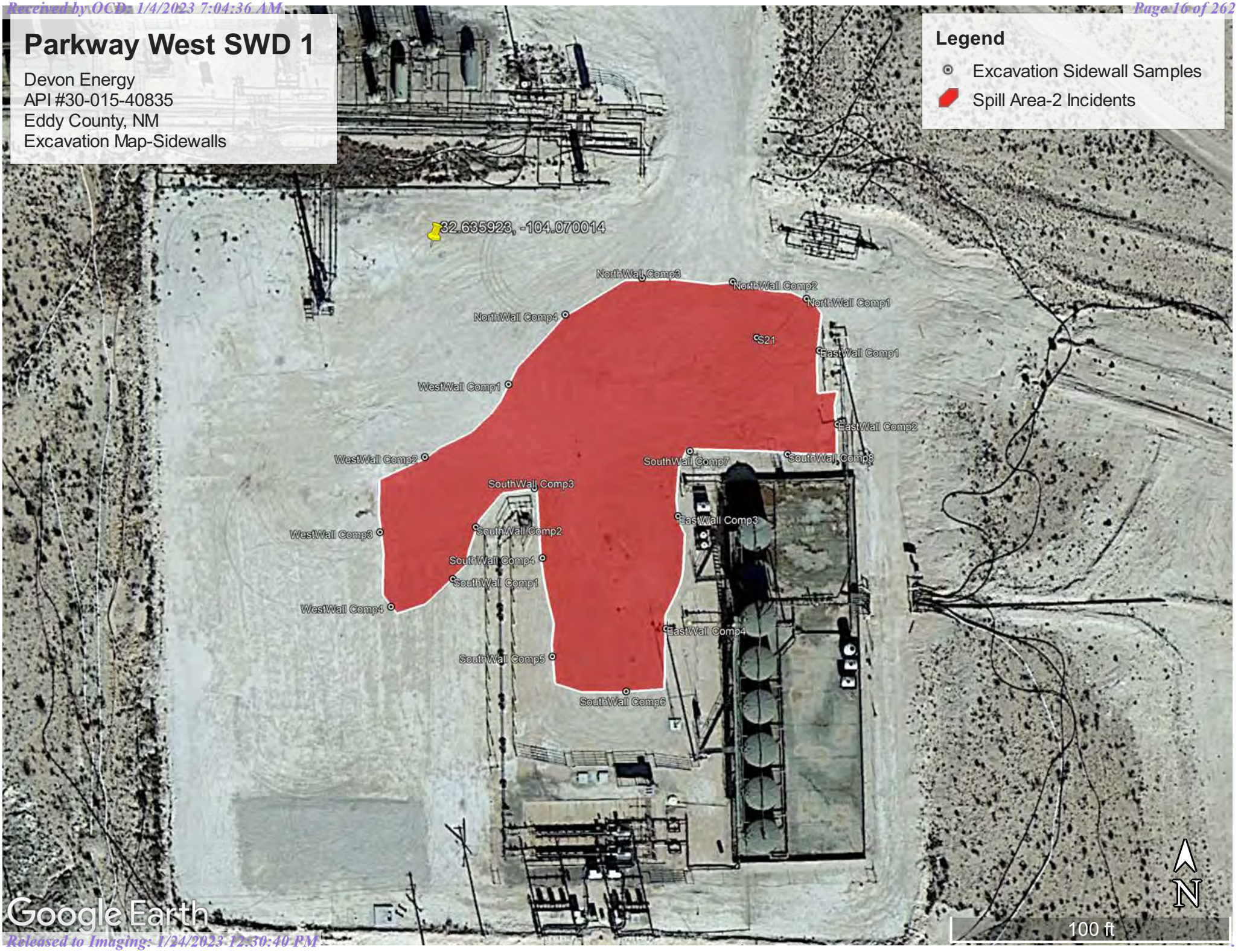


Parkway West SWD 1

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

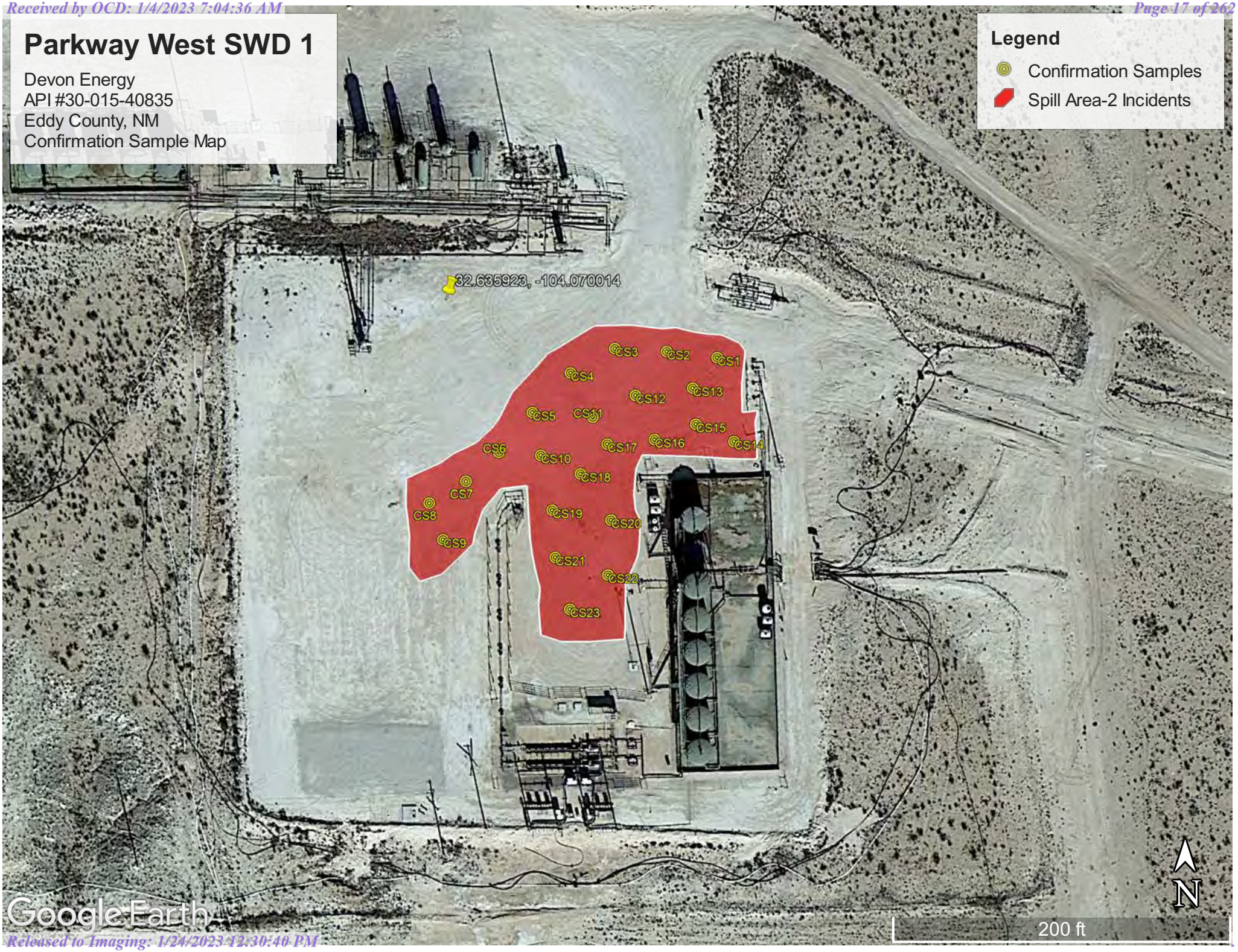
Legend

- Excavation Sidewall Samples
- Spill Area-2 Incidents



Parkway West SWD 1

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



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	Depth Well	Depth Water	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**

2/12/21 9:04 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

National Water Information System: Web Interface

USGS Water Resources

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

Click to hideNews Bulletins

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

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

site_no list =

- 323900104052901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

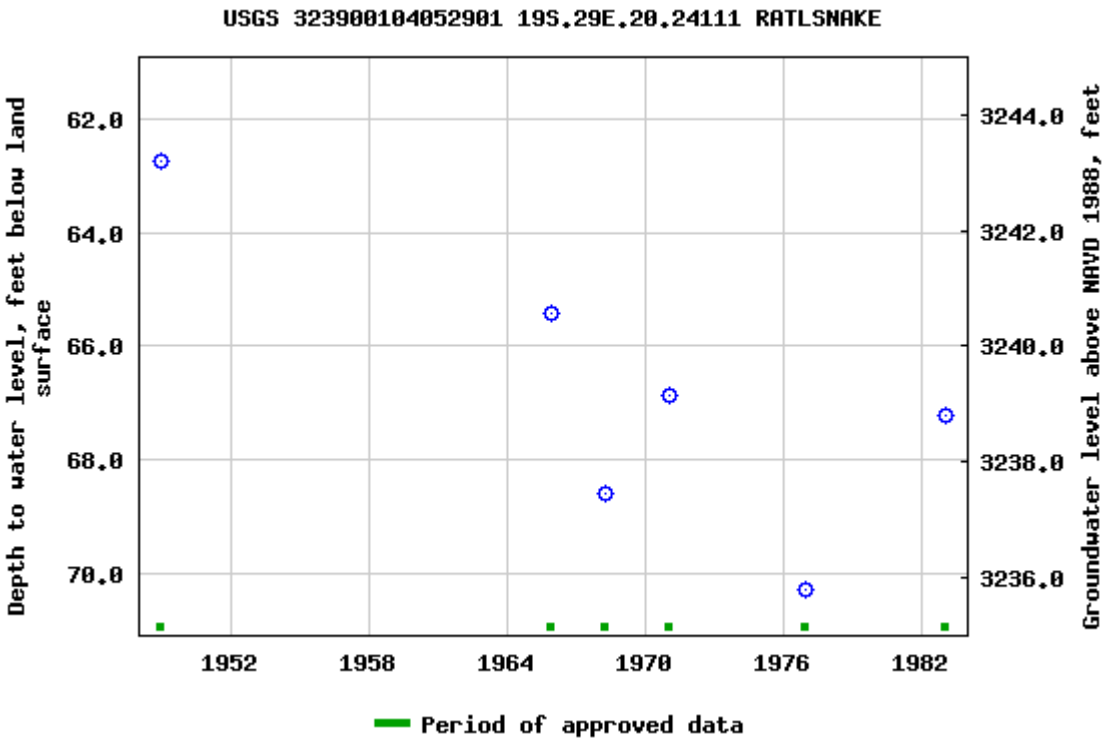
USGS 323900104052901 19S.29E.20.24111 RATLSNAKE

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.
Download a presentation-quality graph

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

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
N
2 mi
Google Earth

Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w4t
Elevation: 2,750 to 5,000 feet
Mean annual precipitation: 8 to 16 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 70 percent
Stegall and similar soils: 25 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Alluvial fans, plains
Landform position (three-dimensional): Rise, talf
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

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

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 8 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Very low (about 1.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D
Ecological site: R042XC025NM - Shallow
Hydric soil rating: No

Description of Stegall

Setting

Landform: Alluvial fans, plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

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

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to petrocalcic
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 5 percent
Ecological site: R042XC002NM - Shallow Sandy
Hydric soil rating: No

Data Source Information

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

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w5f
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 190 to 235 days
Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent
Gypsum land: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Hills, plains, ridges
Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope
Landform position (three-dimensional): Crest, nose slope, side slope, head slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water capacity: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Hills, plains, ridges
Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope
Landform position (three-dimensional): Crest, nose slope, side slope, head slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Minor Components

Cottonwood

Percent of map unit: 5 percent
Ecological site: R042XC033NM - Salty Bottomland
Hydric soil rating: No

Reagan

Percent of map unit: 5 percent
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Largo

Percent of map unit: 5 percent
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

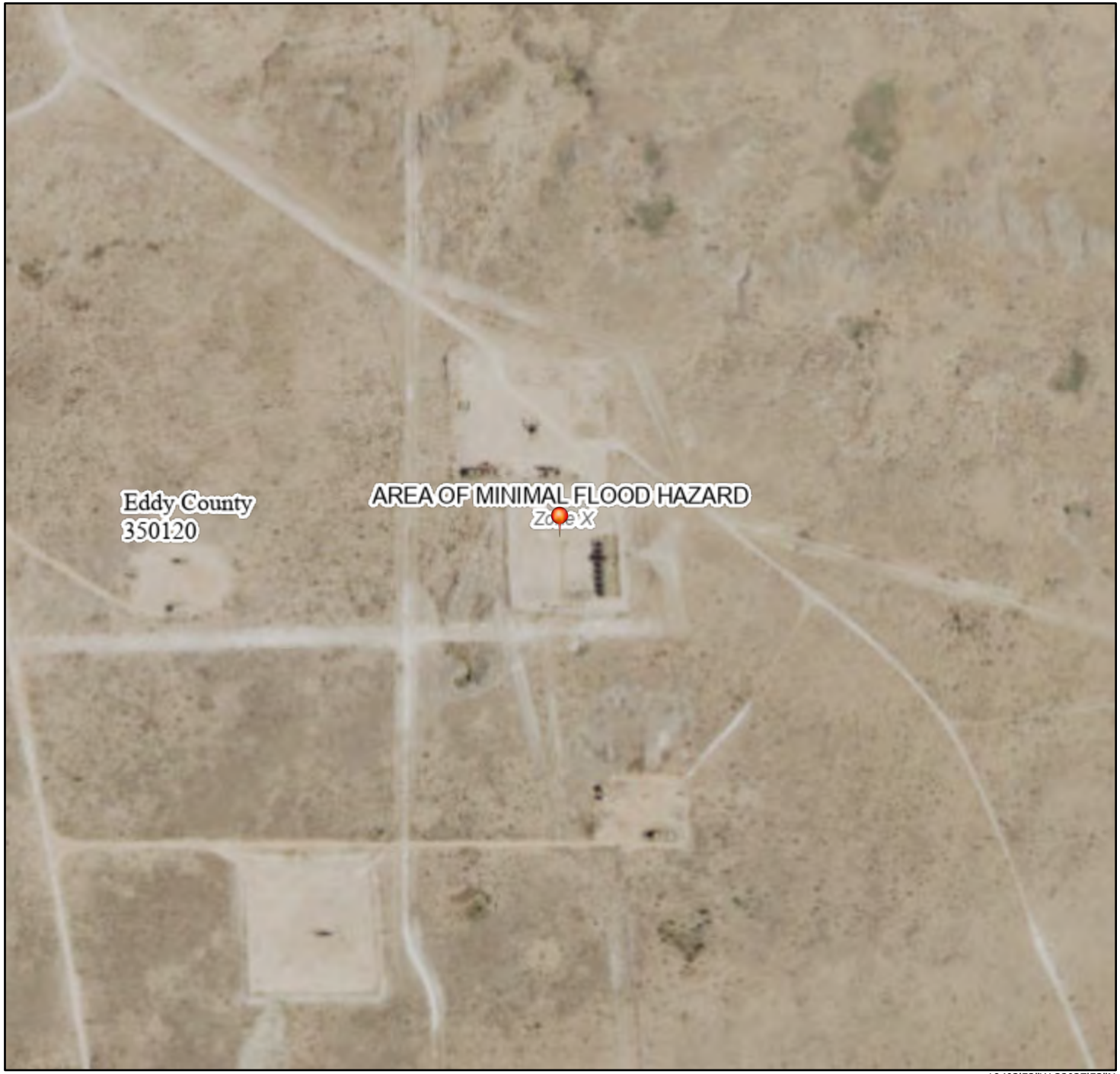
Data Source Information

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

National Flood Hazard Layer FIRMette

FEMA

104°4'30"W 32°38'23"N



104°3'53"W 32°37'53"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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*
- OTHER AREAS
  - NO SCREEN Area of Minimal Flood Hazard *Zone X*
  - 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
  - 17.5 Water Surface Elevation
  - Coastal Transect
  - Base Flood Elevation Line (BFE)
  - Limit of Study
  - Jurisdiction Boundary
  - Coastal Transect Baseline
  - Profile Baseline
  - Hydrographic Feature
- MAP PANELS
  - Digital Data Available
  - No Digital Data Available
  - Unmapped

N

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.

U.S. Fish and Wildlife Service
National Wetlands Inventory

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.

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

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

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

nAB1822127797

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company 6137	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	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	27	19S	29E					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? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? ENMRD Mike Bratcher and Maria Pruett	
By Whom? Brett Fulks; EHS Professional	Date and Hour OCD and BLM 7/22/2018 @ 9:33 PM MST	
Was a Watercourse Reached? ☐ Yes ☒ 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*

Printed Name: Tamala J. Robison

Title: Field Admin Support

E-mail Address: Tamala.Robison@dvn.com

Date: 7/25/2018 Phone: 575-748-3371

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: *Maria Pruett*

Approval Date: 8/7/18 Expiration Date: N/A

Conditions of Approval: See attached

Attached ☒ RP-4900

* Attach Additional Sheets If Necessary

State of New Mexico
Oil Conservation Division

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?	<50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

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: Dale Woodall Title: EHS Professional

Signature: Dale Woodall Date: 1/4/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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: Dale Woodall Title: EHS Professional

Signature: Dale Woodall Date: 1/4/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: OCD Date: 01/04/2023

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: 1/24/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist

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,

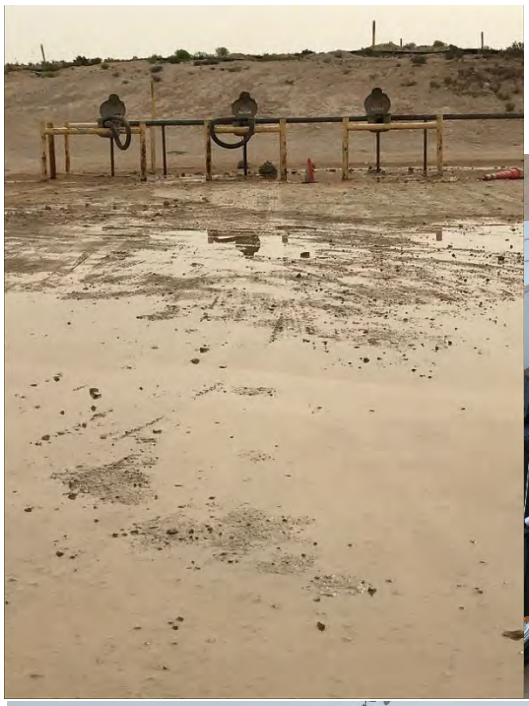
Tom Bynum - Project Manager
580-748-1613

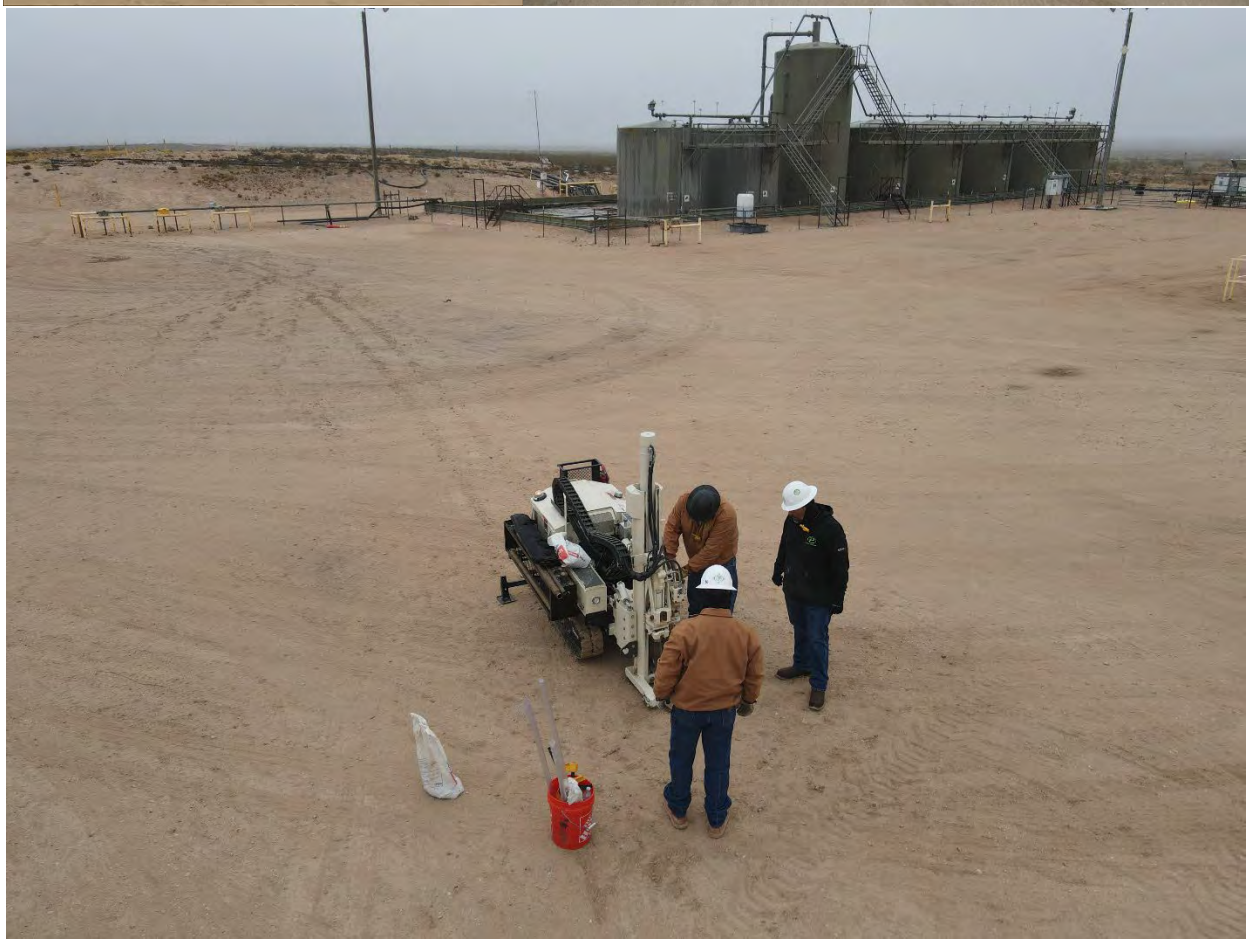
Pima Environmental Services, LLC

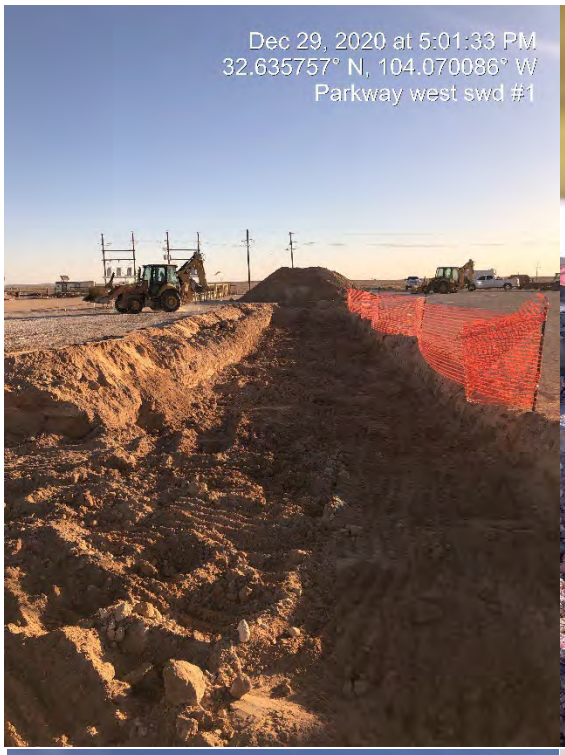
Pima Environmental Services

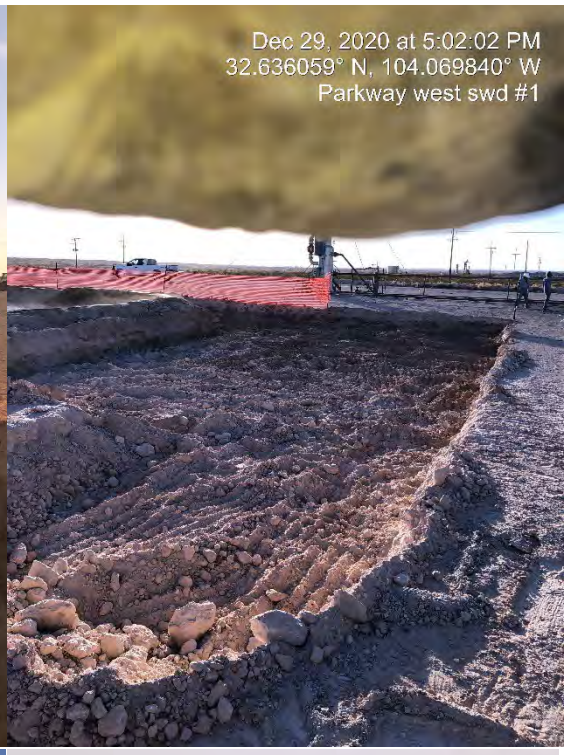
Appendix D

Photographic Documentation



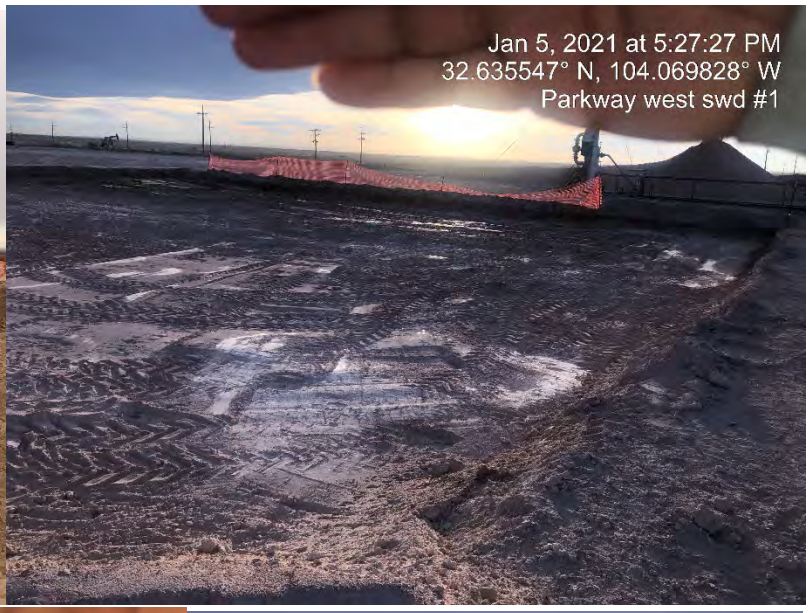



Dec 29, 2020 at 5:01:33 PM
32.635757° N, 104.070086° W
Parkway west swd #1


Dec 29, 2020 at 5:02:02 PM
32.636059° N, 104.069840° W
Parkway west swd #1


Dec 29, 2020 at 5:03:19 PM
32.635644° N, 104.070007° W
Parkway west swd #1


Dec 30, 2020 at 4:45:58 PM
32.635662° N, 104.069985° W
Parkway west swd #1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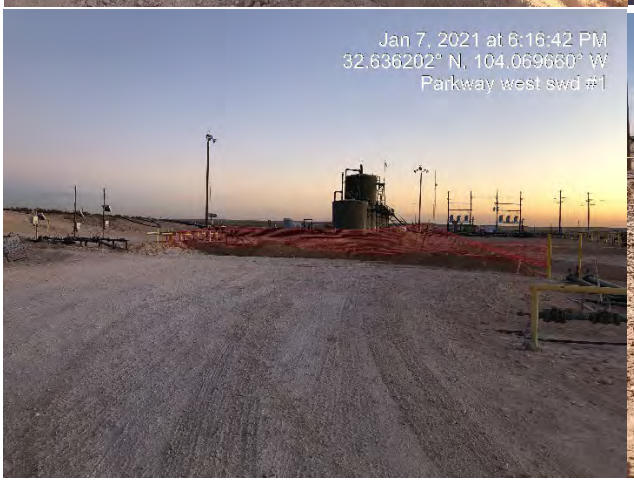
32.635547° N, 104.069828° W
Parkway west swd #1


Jan 5, 2021 at 5:27:35 PM
32.635995° N, 104.069810° W
Parkway west swd #1


Jan 7, 2021 at 6:15:59 PM
32.635670° N, 104.069703° W
Parkway west swd #1


Jan 7, 2021 at 6:16:42 PM
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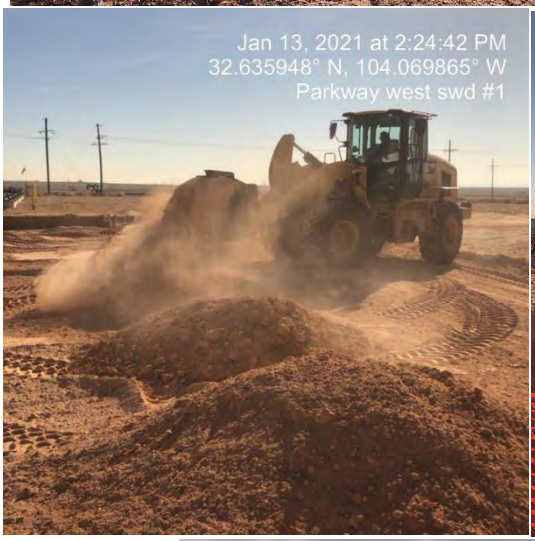
Parkway west swd #1


Jan 12, 2021 at 5:13:19 PM
32.635895° N, 104.069696° W
Parkway west swd #1


Jan 12, 2021 at 5:13:52 PM
32.635924° N, 104.069568° W
Parkway west swd #1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Parkway west swd #1


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32.635977° N, 104.069822° W
Parkway west swd #1


Jan 20, 2021 at 2:05:42 PM
32.635607° N, 104.069683° W
Parkway west swd #1

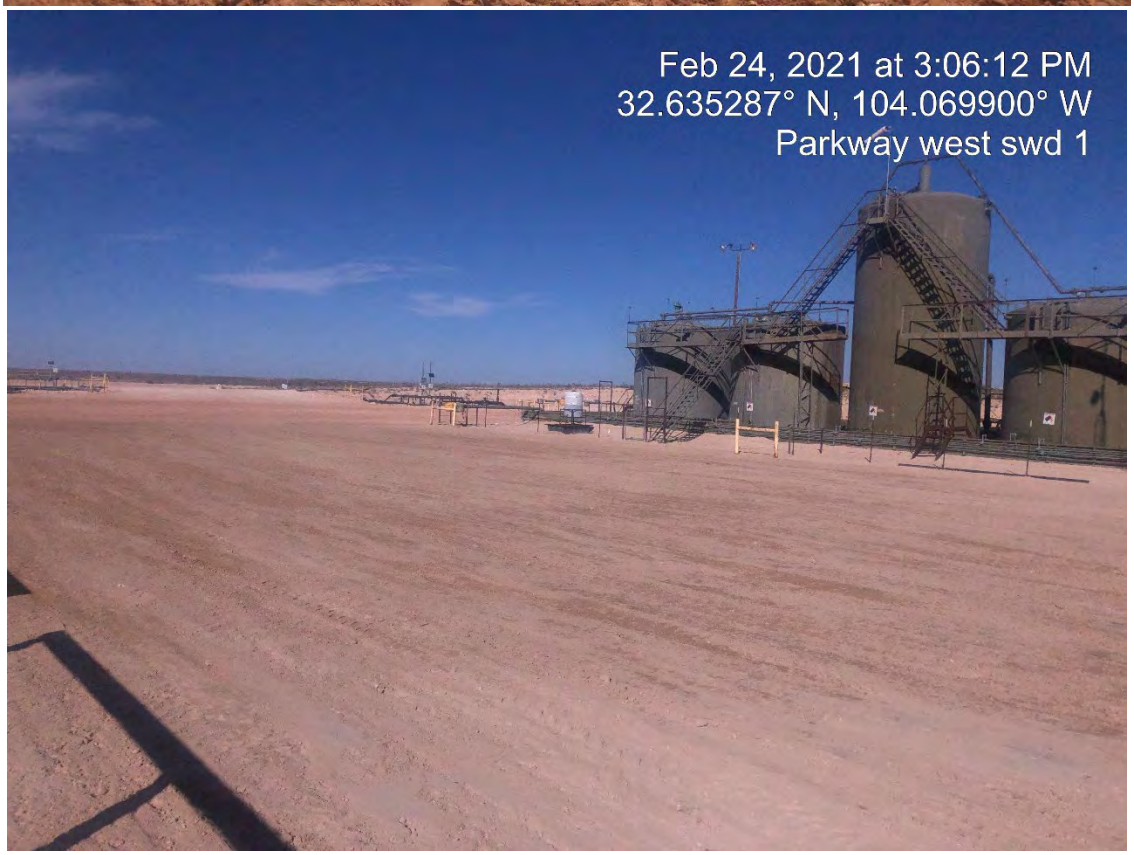

Feb 24, 2021 at 3:02:42 PM
32.636061° N, 104.070266° W
Parkway west swd 1


Feb 24, 2021 at 3:03:42 PM
32.635603° N, 104.070203° W
Parkway west swd 1


Feb 24, 2021 at 3:04:17 PM
32.635612° N, 104.069945° W
Parkway west swd 1


Feb 24, 2021 at 3:04:34 PM
32.635612° N, 104.069945° W
Parkway west swd 1


Feb 24, 2021 at 3:05:00 PM
32.635638° N, 104.069709° W
Parkway west swd 1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Parkway west swd 1


Feb 24, 2021 at 3:07:21 PM
32.635995° N, 104.070176° W
Parkway west swd 1


Feb 24, 2021 at 3:07:50 PM
32.635980° N, 104.070212° W
Parkway west swd 1


Feb 24, 2021 at 3:08:44 PM
32.635997° N, 104.069929° W
Parkway west swd 1


Feb 24, 2021 at 3:09:27 PM
32.635654° N, 104.070054° W
Parkway west swd 1

Pima Environmental Services

Appendix E

Laboratory Reports

CARDINAL Laboratories

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

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

Accreditation applies to public drinking water matrices.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 3 - 3' (H002542-06)

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	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	**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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 4 - 1' (H002542-08)

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	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	**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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1920**	16.0	09/28/2020	ND	400	100	400	0.00	

TPH 8015M mg/kg 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

CARDINAL Laboratories

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 - 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1540**	16.0	09/28/2020	ND	416	104	400	0.00	

TPH 8015M mg/kg 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

CARDINAL Laboratories

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 - 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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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CARDINAL Laboratories

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

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	**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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CARDINAL Laboratories

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 - 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

CARDINAL Laboratories

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

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	**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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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 *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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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

CARDINAL Laboratories

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 - 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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 15 - 1' (H002542-21)

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, 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

CARDINAL Laboratories

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 - 15 - 2' (H002542-22)

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: 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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CARDINAL Laboratories

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

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	**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

CARDINAL Laboratories

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

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	**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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 18 - 1' (H002542-26)

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 *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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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, SM4500Cl-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

CARDINAL Laboratories

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 - 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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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 *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	**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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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: 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, SM4500Cl-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

CARDINAL Laboratories

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: 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, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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: 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, SM4500Cl-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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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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CARDINAL Laboratories

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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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		BILL TO	
Company Name:	Tina Environmental	P.O. #:	2089059
Project Manager:	Chris Jones	Company:	Devon
Address:	1601 N. Turner	Attn:	Tom Bynum
City:	Hobbs State: NM Zip: 88240	Address:	
Phone #:	575-631-6977 Fax #:	City:	
Project #:	49 Project Owner: Devon	State:	Zip:
Project Name:	Parkway West SWD	Phone #:	
Project Location:	32.635774, -104.069381	Fax #:	
Sampler Name:	Robert Carper		

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
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	TPH EXT	BTEX	Chloride
H002542																	
1	S-1 - 0'-6"	5				X							9/15/20	9:00	X	X	X
2	S-2 - 0'-6"	1												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: 9/15/20	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 8:57		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C -2.7	Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials) TC	Turnaround Time: Standard ☑ Rush ☐ Bacteria (only) Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C			Thermometer ID #113 Correction Factor None Corrected Temp. °C

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CARDINAL Laboratories
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Pima Environmental
Project Manager:	Chris Jones
Address:	1601 N. Turner
City:	Hobbs
State:	NM
Zip:	88240
Phone #:	575-631-6977
Fax #:	
Project #:	49
Project Owner:	Devon
Project Name:	Parkway West SWD
Project Location:	32.635774, -104.069381
Sampler Name:	Robert Carper

BILL TO

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

ANALYSIS REQUEST

Lab I.D. (FOR LAB USE ONLY)	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH EXT	BTEX	Chloride
H002542																	
11	S-7-0"-6"	G				X							9/15/20	9:50	X	X	X
12	S-8-0"-6"													9:55			
13	S-9-0"-6"													10:00			
14	S-10-0"-6"													10:05			
15	S-11-0"-6"													10:10			
16	S-12-0"-6"													10:15			
17	S-13-0"-6"													10:20			
18	S-13-1'													10:25			
19	S-14-0"-6"													10:30			
20	S-15-0"-6"													10:35			

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Relinquished By: Robert Carper	Date: 9/15/20 Time: 8:50	Received By: Tamara Oldaker	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address:
			REMARKS:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C -2.7
Corrected Temp. °C

Sample Condition
Cool ☑ Yes ☐ No
Intact ☑ Yes ☐ No

CHECKED BY: (Initials) TO

Turnaround Time: Standard ☑ Rush ☐

Thermometer ID #113
Correction Factor None

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

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CARDINAL Laboratories

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
City: Hobbs State: NM Zip: 88240
Phone #: 575-631-6977 Fax #:
Project #: 49 Project Owner: Devon
Project Name: Parkway West SWD
Project Location: 32.635774, -104.069381
Sampler Name: Robert Cooper

BILL TO
P.O. #: 208905 19
Company: Devon
Attn: Tom Bynum
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH 8015	BTEX	Chloride
H002542																	
21	S-15-1'	6				X					X		9/15/20	10:40	X	X	X
22	S-15-2'													10:45			
23	S-16-0'-6"													10:50			
24	S-17-0'-6"													10:55			
25	S-18-0'-6"													11:00			
26	S-18-1'													11:05			
27	S-18-2'													11:10			
28	S-18-3'													11:20			
29	S-19-0'-6"													11:25			
30	S-20-0'-6"													11:30			

Relinquished By: Date: 9/15/20 Time: 8:50
Received By: Tamara Oldaker
Relinquished By: Date: Time:
Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C -2.7 Corrected Temp. °C
Sample Condition: Cool ☑ Yes Intact ☑ Yes / ☐ No ☐ No
CHECKED BY: (Initials) TO.

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113
Correction Factor None
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ Nc Intact ☐ Yes ☐ No
Observed Temp. °C Corrected Temp. °C

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CARDINAL Laboratories

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(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
City: Hobbs State: NM Zip: 88240
Phone #: 575-631-6977 Fax #:
Project #: 49 Project Owner: Devon
Project Name: Parkway West SWD
Project Location: 32.635774, -104.069381
Sampler Name: Robert Carper

BILL TO
P.O. #: 2089059
Company: Devon
Attn: Tom Bynum
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST: TPH EXT, BTEX, Chlorides

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH EXT	BTEX	Chlorides
H002542																	
31	S-21 - 0'-6"	G				X					X		9/15/20	11:35	X	X	X
32	BG-1	↓				↓					↓		↓	11:40	↓	↓	↓
33	BG-2													11:45			
34	BG-3													11:50			
35	S-5 - 1'	G				X					X		1		/	/	/

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Relinquished By: Date: 9/15/20 Time: 8:50 Received By:
Relinquished By: Date: Time: Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C -2.7 Corrected Temp. °C
Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials) T.O.

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113
Correction Factor None
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C Corrected Temp. °C

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CARDINAL Laboratories

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/qa/lab_accred_certif.html.

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

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

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

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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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CARDINAL Laboratories

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 - 1 - 1'

H003117-01 (Soil)

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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 1 - 2'

H003117-02 (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	0112512	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories

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CARDINAL Laboratories

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 - 1 - BOTTOM

H003117-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	0112512	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories

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CARDINAL Laboratories

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 - 2 - 1'

H003117-04 (Soil)

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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 2 - 2'

H003117-05 (Soil)

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

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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 - 2 - BOTTOM

H003117-06 (Soil)

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

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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 - 3 - 1'

H003117-07 (Soil)

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

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CARDINAL Laboratories

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 - 3 - 2'

H003117-08 (Soil)

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

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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 - 3 - BOTTOM

H003117-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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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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 - 4 - 1'

H003117-10 (Soil)

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

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 4 - 2'

H003117-11 (Soil)

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

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CARDINAL Laboratories

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 - 4 - BOTTOM

H003117-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**320**		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 5 - 1'

H003117-13 (Soil)

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

Cardinal Laboratories

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CARDINAL Laboratories

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 - 5 - 2'

H003117-14 (Soil)

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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 5 - BOTTOM

H003117-15 (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	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 1'

H003117-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**3920**		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories

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CARDINAL Laboratories

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
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

CARDINAL Laboratories

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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**192**		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 1'

H003117-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**720**		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 2'

H003117-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**416**		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**640**		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**192**		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 2'

H003117-23 (Soil)

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

Cardinal Laboratories *=Accredited Analyte

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

Cardinal Laboratories

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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	0113011	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 2'

H003117-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**192**		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**352**		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**656**		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 2'

H003117-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**368**		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - BOTTOM

H003117-30 (Soil)

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 11 - 1'

H003117-31 (Soil)

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 11 - 2'

H003117-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**128**		16.0	mg/kg	4	0113012	GM	30-Nov-20	4500-Cl-B	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 - 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	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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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CARDINAL Laboratories

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	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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							
LCS (0112512-BS1)				Prepared & Analyzed: 25-Nov-20						
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (0112512-BSD1)				Prepared & Analyzed: 25-Nov-20						
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 0113011 - 1:4 DI Water										
Blank (0113011-BLK1)				Prepared & Analyzed: 30-Nov-20						
Chloride	ND	16.0	mg/kg							
LCS (0113011-BS1)				Prepared & Analyzed: 30-Nov-20						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (0113011-BSD1)				Prepared & Analyzed: 30-Nov-20						
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Batch 0113012 - 1:4 DI Water										
Blank (0113012-BLK1)				Prepared & Analyzed: 30-Nov-20						
Chloride	ND	16.0	mg/kg							
LCS (0113012-BS1)				Prepared & Analyzed: 30-Nov-20						
Chloride	400	16.0	mg/kg	400		100	80-120			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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: Parkway West SWD #1
Project Location: Eddy, NM
Sampler Name: Robert Cooper

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

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	SAMPLING TIME	Chlorides
HDD3117	* 12/1/20 ch														
1	S-1-1 FT	G	1			X					X		11/23	0850	
2	S-1-2 FT	G	1			X					X		11/23	0855	
3	S-1-Bottom	G	1			X					X		11/23	0900	
4	S-2-1'	G	1			X					X		11/23	0905	
5	S-2-2'	G	1			X					X		11/23	0910	
6	S-2-Bottom	G	1			X					X		11/23	0915	
7	S-3-1'	G	1			X					X		11/23	0920	
8	S-3-2'	G	1			X					X		11/23	0925	
9	S-3-Bottom	G	1			X					X		11/23	0930	
10	S-4-1'	G	1			X					X		11/23	0935	

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Relinquished By: Date: 11/24/20 Time: 2:10 Received By: Jodi Henson
Relinquished By: Date: Time: Received By:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 4.1 Corrected Temp. °C
Sample Condition: Cool: Yes / No Intact: Yes / No
CHECKED BY: (Initials)

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:

REMARKS: * Sample IDs revised as per Chris. 12/1/20 ch

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID ~~#97~~ 113
Correction Factor +0.4 °C
Bacteria (only) Sample Condition: Cool: Yes / No Intact: Yes / No
Observed Temp. °C Corrected Temp. °C

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

FORM-006 R 3.0

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Prima 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:	Parkway West SWD #1
Project Location:	Eddy, NM
Sampler Name:	Robert Casper

BILL TO

P.O. #:	208905 19
Company:	Devon
Attn:	Tom Bynum
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

Chlorides

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME
H00317	B	G	4			✓					✓			
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	0820
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

Relinquished By:	Date: 11/24/20	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Time: 220	Received By: Jodi Henson	All Results are emailed. Please provide Email address:
	Date:		REMARKS:
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.1 Corrected Temp. °C	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Rush ☐ Thermometer ID #97 113 Correction Factor +0.4 °C

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

FORM-006 R 3.0

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CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Piña 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: Parkway West SWD #1
Project Location: Eddy, NM
Sampler Name: Robert Casper

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

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chloride
H003117	B														
21	S - 7 - Bottom	G	1			X					X		11/23	0940	
22	S - 8 - 1'												11/23	0945	
23	S - 8 - 2'												11/23	0950	
24	S - 8 - Bottom												11/23	1000	
25	S - 9 - 1'												11/23	1005	
26	S - 9 - 2'												11/23	1010	
27	S - 9 - Bottom												11/23	1015	
28	S - 10 - 1'												11/23	1020	
29	S - 10 - 2'												11/23	1025	
30	S - 10 - Bottom												11/23	1031	

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Relinquished By: Date: 11/24/22 Time: 2:30 Received By: Jodi Henson
Relinquished By: Date: Time: Received By:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 4.1 Corrected Temp. °C
Sample Condition: Cool Yes Intact Yes / No No
CHECKED BY: (Initials)

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
REMARKS:

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113
Correction Factor None
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C Corrected Temp. °C

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FORM-006 R 3.1 08/04/20

CARDINAL Laboratories

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 #: 45 Project Owner: Devon
Project Name: Parkway West SWD #1
Project Location: Eddy, NM
Sampler Name: Robert Harper

BILL TO
P.O. #: 2089051G
Company: Devon
Attn: Tom Bynum
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	SAMPLING TIME	Chloride
H003117	B														
31	S-11-1'	C	1			X					X		11/23	1035	
32	S-11-2'												11/23	1040	
33	S-11-Bottom												11/23	1045	
34	S-12-1'												11/23	1050	
35	S-12-2'												11/23	1055	
36	S-12-Bottom												11/23	1100	
37	S-13-1'												11/23	1105	
38	S-13-2'												11/23	1110	
39	S-13-Bottom												11/23	1115	

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Relinquished By: Date: 11/24/20 Time: 2:30 Received By: Jodi Henson
Relinquished By: Date: Time: Received By:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 4.1 Corrected Temp. °C
Sample Condition: Cool Yes Intact Yes
CHECKED BY: (Initials) JH

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
REMARKS:

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113
Correction Factor None
Bacteria (only) Sample Condition: Cool ☐ Yes Intact ☐ Yes / ☐ Nc ☐ No
Observed Temp. °C Corrected Temp. °C

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CARDINAL Laboratories

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

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

Accreditation applies to public drinking water matrices.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	12/31/2020
Reported:	01/06/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	** (See Notes)
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	12/31/2020
Reported:	01/06/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	** (See Notes)
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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

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	01/04/2021	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	**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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	12/31/2020
Reported:	01/06/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	** (See Notes)
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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, 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*	<10.0	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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	12/31/2020
Reported:	01/06/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	** (See Notes)
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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, SM4500Cl-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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	12/31/2020
Reported:	01/06/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	** (See Notes)
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	01/05/2021	ND	416	104	400	3.92	

TPH 8015M mg/kg 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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	12/31/2020
Reported:	01/06/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	** (See Notes)
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	01/05/2021	ND	416	104	400	3.92	

TPH 8015M mg/kg 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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	12/31/2020
Reported:	01/06/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	** (See Notes)
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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, SM4500Cl-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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	12/31/2020
Reported:	01/06/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	** (See Notes)
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Pima Enviromental
Project Manager:	Chris Jones
Address:	1601 N. Turner ste 500
City:	Hobbs State: NM Zip: 88240
Phone #:	575-631-6977 Fax #:
Project #:	49 Project Owner: Devon
Project Name:	Parkway West SWD #1
Project Location:	EDDY County
Sampler Name:	Mark Newcomb

BILL TO

P.O. #:	20890519
Company:	Devon
Attn:	Wes Mathews
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH - EXT	BTEX	Chloride
H003309																	
1	North Wall Comp #1	G	1			X					X		12/31/20		X	X	X
2	North Wall Comp #2	G	1			X					X		12/31/20		X	X	X
3	North Wall Comp #3	G	1			X					X		12/31/20		X	X	X
4	North Wall Comp #4	G	1			X					X		12/31/20		X	X	X
5	West Wall Comp #1	G	1			X					X		12/31/20		X	X	X
6	West Wall Comp #2	G	1			X					X		12/31/20		X	X	X
7	West Wall Comp #3	G	1			X					X		12/31/20		X	X	X
8	West Wall Comp #4	G	1			X					X		12/31/20		X	X	X

Relinquished By:	Date: 12/31/20	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 15:50	Jodi Henson	All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS: Bill to Devon
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 14.3	Sample Condition: Cool ☐ Yes ☑ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C			Thermometer ID #113 Correction Factor None

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

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

FORM-006 R 3.1 08/04/20

CARDINAL Laboratories

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

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

Accreditation applies to public drinking water matrices.

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

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/12/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	** (See Notes)
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/12/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	** (See Notes)
Project Number:	49	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - 32.635774-104.069381		

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, SM4500Cl-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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 ste500
City:	Hobbs State: NM Zip: 88240
Phone #:	575-631-6977 Fax #:
Project #:	49 Project Owner: Devon
Project Name:	Parkway SWD #1
Project Location:	EDDY County
Sampler Name:	Mark Newcomb

BILL TO

P.O. #:	20890519
Company:	Devon
Attn:	Wes Mathews
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	SAMPLING TIME	TPH - EXT	BTEX	Chloride
#210056																	
1	WEST WALL #3	G				X					X		1/8/21	1:15	X	X	X
2	WEST WALL #4																

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, 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:	Date: 1/8/21	Received By:	
	Time: 1315		
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:

REMARKS: Bill to Devon

Delivered By: (Circle One)	Observed Temp. °C 12.9	Sample Condition Cool: Yes / Intact: Yes	CHECKED BY: (Initials)	Turnaround Time: ☑ Standard ☐ Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool: No / Intact: No	TO	Thermometer ID #113 Correction Factor None

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

FORM-006 R 3.1 06/04/20

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

CARDINAL Laboratories

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

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

Accreditation applies to public drinking water matrices.

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

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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

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	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					

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

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 *81.8 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *78.1 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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

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	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	01/14/2021	ND	400	100	400	3.92	

TPH 8015M mg/kg 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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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

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	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	01/14/2021	ND	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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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

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	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					

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

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 *81.5 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *79.6 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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

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	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	01/14/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg 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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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

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	01/14/2021	ND	2.07	104	2.00	4.57	
Toluene*	<0.050	0.050	01/14/2021	ND	2.07	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	2.01	100	2.00	4.93	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.87	97.8	6.00	4.52	
Total BTEX	<0.300	0.300	01/14/2021	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	01/14/2021	ND	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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	01/14/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg 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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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

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	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, 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	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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	01/14/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg 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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	01/14/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	01/08/2021
Reported:	01/18/2021	Sampling Type:	Soil
Project Name:	PARKWAY WEST SWD #1	Sampling Condition:	Cool & Intact
Project Number:	49	Sample Received By:	Jodi Henson
Project Location:	DEVON - 32.635774-104.069381		

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, 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	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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Pima Environmental	**BILL TO** P.O. #:	20890519
Project Manager:	Chris Jones	Company:	Devon
Address:	1601 N. Turner Ste 500	Attn:	Wes Matthew
City:	Hobbs	State: NM Zip:	88240
Phone #:	575-631-6977	Fax #:	Address:
Project #:	49	Project Owner:	Devon
Project Name:	~~Parkway Water SWD~~ Parkway West SWD	City:	
Project Location:	EDDY	State:	Zip:
Sampler Name:	Gio Gomez	Phone #:	
		Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH Ext	BTEX	Chlorides
H20085																	
1	East wall #4	C				X					X		1-8-21	10:00	✓	✓	✓
2	South wall #4													10:10			
3	East wall #1													9:00			
4	South Wall #1													9:10			
5	East Wall #2													9:20			
6	South Wall #2													9:30			
7	East Wall #3													9:40			
8	South Wall #3													9:50			
9	South ~~East~~ Wall #6													10:20			
10	South Wall #5													10:30			

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Relinquished By:	Date: 1-13-21	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 4:45	Jodi Henson	All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.1 Corrected Temp. °C	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Rush ☐ Thermometer ID #113 Correction Factor None

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

FORM-006 R 3.1 06/04/20

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CARDINAL Laboratories

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 #:	575-631-6977 Fax #:
Project #:	49 Project Owner: Devon
Project Name:	Parkway West SWD
Project Location:	EDDY
Sampler Name:	Gio Gomez

BILL TO

P.O. #:	2089057 9
Company:	Devon
Attn:	Wes Mathews
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH EXT	BTEX	chlorides
H210085																	
11	South wall 47	C				X					X		1-8-21	11:00	X	X	X
12	South wall 48	C				X					X		-	11:10	X	X	X

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, 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:	Date: 1-13-21	Received By: Jodi Henson	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Time: 4:45	Received By:	All Results are emailed. Please provide Email address:
	Date:		REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 3.1	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C	☑ Yes ☑ Yes ☐ No ☐ No		Thermometer ID #113 Correction Factor None

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

FORM-006 R 3.1 08/04/20

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eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-716-1
Client Project/Site: Mizar 11 Fed Com 14

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

Attn: Chris Jones

Holly Taylor

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

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

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

Laboratory Job ID: 890-716-1

Table of Contents

Definitions/Glossary

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

Qualifiers

GC VOA

Qualifier	Qualifier Description
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.
¤	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

Case Narrative

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

Job ID: 890-716-1

Job ID: 890-716-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-716-1

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

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

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
Job ID: 890-716-1
Project/Site: Mizar 11 Fed Com 14

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

Client Sample Results

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

Client Sample ID: CS1-1'
Lab Sample ID: 890-716-2
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
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/25/21 08:49	05/26/21 01:15	1
Total TPH	<49.8	U	49.8		mg/Kg		05/25/21 08:49	05/26/21 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*05/25/21 08:49*	*05/26/21 01:15*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/25/21 08:49*	*05/26/21 01:15*	*1*

Method: 300.0 - Anions, Ion 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
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/25/21 08:49	05/26/21 01:37	1
Total TPH	<49.8	U	49.8		mg/Kg		05/25/21 08:49	05/26/21 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*05/25/21 08:49*	*05/26/21 01:37*	*1*
o-Terphenyl	*102*		*70 - 130*	*05/25/21 08:49*	*05/26/21 01:37*	*1*

Method: 300.0 - Anions, Ion 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

Client Sample Results

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

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

Client Sample Results

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

Client Sample ID: CS3-Surface
Lab Sample ID: 890-716-5
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
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/25/21 08:49	05/26/21 02:19	1
Total TPH	<49.8	U	49.8		mg/Kg		05/25/21 08:49	05/26/21 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*05/25/21 08:49*	*05/26/21 02:19*	*1*
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
Oll 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

Client Sample Results

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

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

Client Sample Results

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

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
Oll 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
Oll 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

Client Sample Results

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

Client Sample ID: CS5-1'
Lab Sample ID: 890-716-10
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

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

Client Sample Results

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

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
Oll 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
Oll 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

Client Sample Results

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

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

Client Sample Results

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

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
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/25/21 08:49	05/26/21 05:50	1
Total TPH	<49.9	U	49.9		mg/Kg		05/25/21 08:49	05/26/21 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*05/25/21 08:49*	*05/26/21 05:50*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/25/21 08:49*	*05/26/21 05:50*	*1*

Method: 300.0 - Anions, Ion 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
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/25/21 08:49	05/26/21 06:11	1
Total TPH	<50.0	U	50.0		mg/Kg		05/25/21 08:49	05/26/21 06:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*05/25/21 08:49*	*05/26/21 06:11*	*1*
o-Terphenyl	*113*		*70 - 130*	*05/25/21 08:49*	*05/26/21 06:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			05/26/21 22:38	1

Client Sample Results

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

Client Sample ID: CS8-1'
Lab Sample ID: 890-716-16
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

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

Client Sample Results

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

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
Oll 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
Oll 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

Client Sample Results

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

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

Client Sample Results

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

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

Client Sample Results

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

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

Client Sample Results

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

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
Oll 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
Oll 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

Client Sample Results

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

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

Client Sample Results

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

Client Sample ID: CS13-1'
Lab Sample ID: 890-716-26
Date Collected: 05/21/21 00:00
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
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/25/21 09:04	05/26/21 02:40	1
Total TPH	<49.9	U	49.9		mg/Kg		05/25/21 09:04	05/26/21 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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
Oll 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

Client Sample Results

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

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

Client Sample Results

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

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

Client Sample Results

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

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

Client Sample Results

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

Client Sample ID: CS16-1'
Lab Sample ID: 890-716-32
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

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
Oll 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
Oll 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

Client Sample Results

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

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

Client Sample Results

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

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

Client Sample Results

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

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

Client Sample Results

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

Client Sample ID: CS19-1'
Lab Sample ID: 890-716-38
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

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
Oll 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
Oll 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

Client Sample Results

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

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

Client Sample Results

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

Client Sample ID: CS21-Surface
Lab Sample ID: 890-716-41
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

Client Sample Results

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

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

Client Sample Results

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

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
Oll 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
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/24/21 16:09	05/25/21 22:11	1
Total TPH	<49.9	U	49.9		mg/Kg		05/24/21 16:09	05/25/21 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*05/24/21 16:09*	*05/25/21 22:11*	*1*
o-Terphenyl	*107*		*70 - 130*	*05/24/21 16:09*	*05/25/21 22:11*	*1*

Method: 300.0 - Anions, Ion 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

Client Sample Results

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

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

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**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	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-urface	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										

Surrogate Summary

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

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate 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

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**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-716-9	CS5-Surface	115	101										
890-716-10	CS5-1'	115	101										
890-716-11	CS6-Surface	112	96										
890-716-12	CS6-1'	114	96										
890-716-13	CS7-Surface	104	90										
890-716-14	CS7-1'	113	96										
890-716-15	CS8-Surface	134 S1+	113										
890-716-16	CS8-1'	112	97										
890-716-17	CS9-urface	115	100										
890-716-18	CS9-1'	112	96										
890-716-19	CS10-Surface	113	97										
890-716-20	CS10-1'	114	99										
890-716-21	CS11-Surface	93	89										
890-716-21 MS	CS11-Surface	83	70										
890-716-21 MSD	CS11-Surface	88	74										
890-716-22	CS11-1'	91	85										
890-716-23	CS12-Surface	86	80										
890-716-24	CS12-1'	108	102										
890-716-25	CS13-Surface	100	91										
890-716-26	CS13-1'	103	101										
890-716-27	CS14-Surface	87	81										
890-716-28	CS14-1'	94	89										
890-716-29	CS15-Surface	91	86										
890-716-30	CS15-1'	85	80										
890-716-31	CS16-Surface	80	75										
890-716-32	CS16-1'	95	80										
890-716-33	CS17-Surface	110	102										
890-716-34	CS17-1'	102	93										
890-716-35	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										

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**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
MB 880-3450/1-A	Method Blank	102	102								
MB 880-3539/1-A	Method Blank	93	86								

Surrogate Legend

1CO = 1-Chlorooctane

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*

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		

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

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	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	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

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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)

Surrogate	MSD %Recovery	MSD 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

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

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

Surrogate	LCS %Recovery	LCS 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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08341		mg/Kg		83	70 - 130	7	35
Toluene			0.100	0.08222		mg/Kg		82	70 - 130	9	35
Ethylbenzene			0.100	0.08434		mg/Kg		84	70 - 130	14	35
m-Xylene & p-Xylene			0.200	0.1739		mg/Kg		87	70 - 130	16	35
o-Xylene			0.100	0.08849		mg/Kg		88	70 - 130	16	35

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

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

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

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 Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09732		mg/Kg		97	70 - 130		
Toluene			0.100	0.09447		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.08807		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene			0.200	0.1773		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.08905		mg/Kg		89	70 - 130		

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

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)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 890-715-A-11-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 3460 — **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

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-715-A-11-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 3460 — **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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-3460/8 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 3460

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

Surrogate	MB %Recovery	MB 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

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		

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

Surrogate	MS %Recovery	MS 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

Surrogate	MSD %Recovery	MSD 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
OII 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

Surrogate	MB %Recovery	MB 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		

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

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
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
OII 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

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

Surrogate	MB %Recovery	MB 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

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

Surrogate	LCS %Recovery	LCS 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

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

Surrogate	LCSD %Recovery	LCSD 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

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

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

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
OII 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

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

Surrogate	*LCSD %Recovery*	*LCSD 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

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	789.6		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	63.5		996	846.9		mg/Kg		79	70 - 130

Surrogate	*MS %Recovery*	*MS 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

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	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	*MSD %Recovery*	*MSD 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

Analyte	MB Result	MB 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

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

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 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 3485

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 — **Client Sample ID: CS1-Surface**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 3485

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

Lab Sample ID: 890-716-1 MSD — **Client Sample ID: CS1-Surface**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 3485

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 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 3486

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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 3486

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

Lab Sample ID: LCSD 880-3451/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 3486

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 — **Client Sample ID: CS6-Surface**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 3486

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

Lab Sample ID: 890-716-11 MSD — **Client Sample ID: CS6-Surface**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 3486

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

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

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
Matrix: Solid
Analysis Batch: 3533

Client Sample ID: CS21-Surface
Prep Type: Soluble

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-urface	Total/NA	Solid	8021B	3392
890-716-18	CS9-1'	Total/NA	Solid	8021B	3392
890-716-19	CS10-Surface	Total/NA	Solid	8021B	3392
890-716-20	CS10-1'	Total/NA	Solid	8021B	3392
MB 880-3334/5-A	Method Blank	Total/NA	Solid	8021B	3334
MB 880-3392/5-A	Method Blank	Total/NA	Solid	8021B	3392
LCS 880-3392/1-A	Lab Control Sample	Total/NA	Solid	8021B	3392
LCSD 880-3392/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3392
890-716-1 MS	CS1-Surface	Total/NA	Solid	8021B	3392
890-716-1 MSD	CS1-Surface	Total/NA	Solid	8021B	3392

Analysis Batch: 3387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-21	CS11-Surface	Total/NA	Solid	8021B	3390
890-716-22	CS11-1'	Total/NA	Solid	8021B	3390
890-716-23	CS12-Surface	Total/NA	Solid	8021B	3390
890-716-24	CS12-1'	Total/NA	Solid	8021B	3390
890-716-25	CS13-Surface	Total/NA	Solid	8021B	3390
890-716-26	CS13-1'	Total/NA	Solid	8021B	3390
890-716-27	CS14-Surface	Total/NA	Solid	8021B	3390
890-716-28	CS14-1'	Total/NA	Solid	8021B	3390
890-716-29	CS15-Surface	Total/NA	Solid	8021B	3390
890-716-30	CS15-1'	Total/NA	Solid	8021B	3390
MB 880-3385/5-A	Method Blank	Total/NA	Solid	8021B	3385
MB 880-3390/5-A	Method Blank	Total/NA	Solid	8021B	3390
LCS 880-3390/1-A	Lab Control Sample	Total/NA	Solid	8021B	3390
LCSD 880-3390/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3390

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	

QC Association Summary

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

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-urface	Total/NA	Solid	5035	
890-716-18	CS9-1'	Total/NA	Solid	5035	
890-716-19	CS10-Surface	Total/NA	Solid	5035	
890-716-20	CS10-1'	Total/NA	Solid	5035	
MB 880-3392/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3392/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3392/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-716-1 MS	CS1-Surface	Total/NA	Solid	5035	
890-716-1 MSD	CS1-Surface	Total/NA	Solid	5035	

Prep Batch: 3445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-31	CS16-Surface	Total/NA	Solid	5035	
890-716-32	CS16-1'	Total/NA	Solid	5035	
890-716-33	CS17-Surface	Total/NA	Solid	5035	
890-716-34	CS17-1'	Total/NA	Solid	5035	
890-716-35	CS18-Surface	Total/NA	Solid	5035	
890-716-36	CS18-1'	Total/NA	Solid	5035	
890-716-37	CS19-Surface	Total/NA	Solid	5035	
890-716-38	CS19-1'	Total/NA	Solid	5035	
890-716-39	CS20-Surface	Total/NA	Solid	5035	
890-716-40	CS20-1'	Total/NA	Solid	5035	
MB 880-3445/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3445/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3445/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-2390-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
880-2390-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 3448

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

QC Association Summary

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

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	

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-urface	Total/NA	Solid	8015B NM	3444
890-716-18	CS9-1'	Total/NA	Solid	8015B NM	3444
890-716-19	CS10-Surface	Total/NA	Solid	8015B NM	3444
890-716-20	CS10-1'	Total/NA	Solid	8015B NM	3444
MB 880-3444/1-A	Method Blank	Total/NA	Solid	8015B NM	3444
LCS 880-3444/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3444
LCSD 880-3444/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3444
890-716-1 MS	CS1-Surface	Total/NA	Solid	8015B NM	3444
890-716-1 MSD	CS1-Surface	Total/NA	Solid	8015B NM	3444

Analysis Batch: 3442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-21	CS11-Surface	Total/NA	Solid	8015B NM	3450
890-716-22	CS11-1'	Total/NA	Solid	8015B NM	3450

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-urface	Total/NA	Solid	8015NM Prep	
890-716-18	CS9-1'	Total/NA	Solid	8015NM Prep	
890-716-19	CS10-Surface	Total/NA	Solid	8015NM Prep	
890-716-20	CS10-1'	Total/NA	Solid	8015NM Prep	
MB 880-3444/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
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	

QC Association Summary

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

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	

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-urface	Soluble	Solid	DI Leach	
890-716-18	CS9-1'	Soluble	Solid	DI Leach	
890-716-19	CS10-Surface	Soluble	Solid	DI Leach	
890-716-20	CS10-1'	Soluble	Solid	DI Leach	
890-716-21	CS11-Surface	Soluble	Solid	DI Leach	
890-716-22	CS11-1'	Soluble	Solid	DI Leach	
890-716-23	CS12-Surface	Soluble	Solid	DI Leach	
890-716-24	CS12-1'	Soluble	Solid	DI Leach	
890-716-25	CS13-Surface	Soluble	Solid	DI Leach	
890-716-26	CS13-1'	Soluble	Solid	DI Leach	
890-716-27	CS14-Surface	Soluble	Solid	DI Leach	
890-716-28	CS14-1'	Soluble	Solid	DI Leach	
890-716-29	CS15-Surface	Soluble	Solid	DI Leach	
890-716-30	CS15-1'	Soluble	Solid	DI Leach	
MB 880-3451/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3451/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3451/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-716-11 MS	CS6-Surface	Soluble	Solid	DI Leach	
890-716-11 MSD	CS6-Surface	Soluble	Solid	DI Leach	
890-716-21 MS	CS11-Surface	Soluble	Solid	DI Leach	
890-716-21 MSD	CS11-Surface	Soluble	Solid	DI Leach	

Leach Batch: 3455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-716-31	CS16-Surface	Soluble	Solid	DI Leach	
890-716-32	CS16-1'	Soluble	Solid	DI Leach	
890-716-33	CS17-Surface	Soluble	Solid	DI Leach	
890-716-34	CS17-1'	Soluble	Solid	DI Leach	
890-716-35	CS18-Surface	Soluble	Solid	DI Leach	
890-716-36	CS18-1'	Soluble	Solid	DI Leach	
890-716-37	CS19-Surface	Soluble	Solid	DI Leach	

QC Association Summary

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

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-urface	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

QC Association Summary

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

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

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

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

Lab Chronicle

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

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

Lab Chronicle

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

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

Lab Chronicle

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

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

Lab Chronicle

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

Client Sample ID: CS11-Surface
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

Lab Chronicle

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

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

Lab Chronicle

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

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

Lab Chronicle

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

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

Lab Chronicle

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

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

Lab Chronicle

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

Client Sample ID: CS21-Surface
Lab Sample ID: 890-716-41
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

Lab Chronicle

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

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

Accreditation/Certification Summary

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

Laboratory: Eurofins Xenco, Midland

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

Authority	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

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-urface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-18	CS9-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-19	CS10-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-20	CS10-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-21	CS11-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-22	CS11-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-23	CS12-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-24	CS12-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-25	CS13-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-26	CS13-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-27	CS14-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-28	CS14-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-29	CS15-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-30	CS15-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-31	CS16-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-32	CS16-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-33	CS17-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-34	CS17-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-35	CS18-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-36	CS18-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-37	CS19-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-38	CS19-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-39	CS20-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-40	CS20-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-41	CS21-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-42	CS21-1'	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-43	CS22-Surface	Solid	05/21/21 00:00	05/21/21 13:48	
890-716-44	CS22-1'	Solid	05/21/21 00:00	05/21/21 13:48	
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	

5/28/2021

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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 1 of 5

Project Manager:	Tom Bynum	Bill to: (if different)	Devon Energy
Company Name:	PIMA	Company Name:	
Address:	1601 N. Turner St.	Address:	
City, State ZIP:	Hobbs, NM 88226	City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Parkway West SWD 1	Turn Around	☒ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:			
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	24.4
Total Containers:		Corrected Temperature:	24.2

ANALYSIS REQUEST — Parameters: TPH, BTEX, CL

890-716 Chain of Custody

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH	BTEX	CL	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 Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 [signature]	[signature]	5-21-21 1348	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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:	pg #1	Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	Pg 1	
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH	BTEX	Cl	Sample Comments
CS6-Surface	Soil	5/21/21			G	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 Tl 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 Tl 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
1	1	5-21-21 1348	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020 2

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 5

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

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor: pg 1	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

ANALYSIS REQUEST

Pres. Code

Parameters: TPH, BTEX, Cl

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
CS11-Surface	Soil	5/21/21			G	1	
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 Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Ace Cuff	5-21-21 1348			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 4 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 ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
CS16-Surface	Soil	5/21/21			G	1	
CS16-1'							
CS17-Surface							
CS17-1'							
CS18-Surface							
CS18-1'							
CS19-Surface							
CS19-1'							
CS20-Surface							
CS20-1'							

ANALYSIS REQUEST / Parameters

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 Tl 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 Tl 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
1		5.21.21 1345	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: ______

www.xenco.com Page 5 of 5

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	Pg 1
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐ Routine ☐ Rush	Pres. Code
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

ANALYSIS REQUEST

Preservative Codes

None: NO; DI Water: H_2O
Cool: Cool; MeOH: Me
HCL: HC; HNO_3: HN
H_2SO_4: H_2; NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	Pg 1	
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Parameters

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 Tl 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 Tl 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
1 [signature]	[signature]	5-21-21 1348	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020 2

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Taylor, Holly	Carrier Tracking No(s):	COC No: 890-232.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: holly taylor@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 6
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 890-716-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 5/27/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Mizar 11 Fed Com 14	Project #: 89000051			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K - EDTA, L EDA, M - Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R - Na2S2O3, S H2SO4, T TSP Dodecahydrate, U - Acetone, V MCAA, W pH 4-5, 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 MS/MSD (Yes or No)	8021B/5035FP_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep Full TPH	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X				X	
CS1-Surface (890-716-1)	5/21/21	Mountain		Solid			X	X	X	1	
CS1-1' (890-716-2)	5/21/21	Mountain		Solid			X	X	X	1	
CS2-Surface (890-716-3)	5/21/21	Mountain		Solid			X	X	X	1	
CS2-1' (890-716-4)	5/21/21	Mountain		Solid			X	X	X	1	
CS3-Surface (890-716-5)	5/21/21	Mountain		Solid			X	X	X	1	
CS3-1' (890-716-6)	5/21/21	Mountain		Solid			X	X	X	1	
CS4-Surface (890-716-7)	5/21/21	Mountain		Solid			X	X	X	1	
CS4-1' (890-716-8)	5/21/21	Mountain		Solid			X	X	X	1	
CS5-Surface (890-716-9)	5/21/21	Mountain		Solid			X	X	X	1	

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 complicance to Eurofins Xenco LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by: Clee Cope 5-21	Date/Time: 21	Company	Received by:	Date/Time: 5-21-21 10:00 am	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

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 Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Taylor, Holly	Carrier Tracking No(s):	COC No: 890-232 3
Client Contact: Shipping/Receiving	Phone:	E-Mail: holly.taylor@eurofinset.com	State of Origin: New Mexico	Page: Page 3 of 6
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 890-716-1
Address: 1211 W Florida Ave	Due Date Requested: 5/27/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Mizar 11 Fed Com 14	Project #: 89000051			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL	M - Hexane
B NaOH	N None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P Na2O4S
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 EDA	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 MS/MSD (Yes or No)	8021B/5035FP_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep Full TPH	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
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	

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 complicance to Eurofins Xenco LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature] 5.21.21			[signature]	5-21-21 10:00 m	
2						
3						

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		

Ver: 11/01/2020

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

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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 172038

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 172038
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	1/24/2023