

November 29th, 2022

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

Re: Site Assessment, Remediation, and Closure Report Ruth 20 #002 API No. 30-025-36866 GPS: Latitude 32.91326 Longitude -103.38241 UL "D", Sec. 20, T16S, R36E Lea County, NM NMOCD Ref. No. NAPP2118726438

Pima Environmental Services, LLC (Pima) has been contracted by Armstrong Energy Corporation to perform a spill assessment, remediation activities, and submit this closure report for a produced water release that occurred at the Ruth 20 #002. The initial C-141 was submitted on September 8th, 2022 (Appendix C). This incident was assigned Incident ID NAPP2118726438, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Ruth 20 #002 is located approximately three and a half (3.5) miles southwest of Lovington, NM. This spill site is in Unit D, Section 20, Township 16S, Range 36E, Latitude 32.91326, Longitude -103.38241, Lea County, NM. Figure 1 references a Location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Ogallala Formation (Lower Pliocene to Middle Miocene). The soil in this area is made up of Portales loam, 0 to 1 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present around the Ruth 20 #002 (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 90 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 66.54 feet BGS. The closest waterway is a manmade pond located approximately 4.2 miles to the northeast of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29							
Depth to Groundwater	Constituent & Limits						
(Appendix A)	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene		
<50'	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

NAPP2118726438: On July 5th, 2021, a lightning strike caused a fire leading to a produced water spill out of a water tank, 170barrels of produced water was released. Armstrong personnel responded to the incident and managed to recover 40 barrels of produced water.

Site Assessment and Soil Sampling Results

On September 15th, 2022, Pima Environmental Services mobilized personnel to the site to conduct delineation activities. When Pima personnel arrived on scene, we noted all storage tanks have been removed. Pima sampled the area between the point of release and areas surrounding the previous storage tank containment.

On November 17th, 2022, upon NMOCD request (Appendix C), Pima Environmental returned to location to collect additional soil samples. Soil samples SW5-SW8 were collected to achieve horizontal delineation of the proposed release area. Laboratory results of this sampling event can be found in the following data table.

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwateris 50-100')									
	ARMSTRONG ENERGY CORPORATION - RUTH 20 #002 NM Approved Laboratory Results								
Sample ID	Date Sampled	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
5-1		1'	ND	ND	ND	ND	ND	0	2490
51		2"	ND	ND	ND	ND	ND	0	81.2
5-2	1	1'	ND	ND	ND	ND	ND	0	1830
32		2'	ND	ND	ND	ND	ND	0	88
S-3		1'	ND	ND	ND	ND	ND	0	2060
		2'	ND	ND	ND	ND	ND	0	53.2
S-4		1'	ND	ND	ND	ND	ND	0	1110
		2'	ND	ND	ND	ND	ND	0	97.8
S-5		1'	ND	ND	ND	ND	ND	0	2290
	9/15/2022	2'	ND	ND	ND	ND	ND	0	37.8
5-6	3/13/2022	1'	ND	ND	ND	ND	ND	0	2310
20	-	2'	ND	ND	ND	30.4	ND	30.4	92.2
S-7		1'	ND	ND	ND	ND	ND	0	2300
27		2'	ND	ND	ND	ND	ND	0	89.7
5-8]	1'	ND	ND	ND	ND	ND	0	2730
20		2'	ND	ND	ND	ND	ND	0	88.3
SW 1]	6"	ND	ND	ND	ND	ND	0	ND
SW 2		6"	ND	ND	ND	ND	ND	0	ND
SW 3	7	6"	ND	ND	ND	ND	ND	0	ND
SW 4]	6"	ND	ND	ND	ND	ND	0	ND
SW 5		6"	ND	ND	ND	ND	ND	0	ND
SW 6	11/17/2022	6"	ND	ND	ND	ND	ND	0	ND
SW 7		6"	ND	ND	ND	ND	ND	0	ND
SW 8		6"	ND	ND	ND	ND	ND	0	ND
BG 1	0/45/2022	6"	ND	ND	ND	ND	ND	0	68.6
BG 2	9/15/2022	6"	ND	ND	ND	ND	ND	0	61.3

ND: Non-Detect

Remediation Activities

Due to analytical levels falling below NMOCD closure criteria, no further immediate action is required. Pima Environmental will address any superficial staining surrounding the affected area.

Complete laboratory reports can be found in Appendix E.

Closure Request

After careful review, Pima requests that this incident, NAPP2118726438, be closed. Armstrong Energy Corporation 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 Sebastian Orozco at 619-721-4813 or <u>Sebastian@pimaoil.com</u>.

Respectfully,

Sebastian Orozco

Sebastian Orozco Environmental Project Manager Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map

Appendices:

- Appendix A Referenced Water Surveys
- Appendix B Soil Survey and Geological Data
- Appendix C C-141 and Correspondence
- Appendix D Photographic Documentation

Appendix E – Laboratory Reports



Figures:

1-Location Map

2-Topographic Map

3-Karst Map

4-Site Map





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Armstrong Energy Corporation API:30-025-36866 D-20-16S-36E Lea County, NM Site Map Legend

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- Proposed Release Area
- Soil Samples



BG1 •

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Appendix A

Water Surveys: OSE USGS



(A CLW###### in the

New Mexico Office of the State Engineer Water Column/Average Depth to Water

(R=POD has POD suffix indicates the been replaced, POD has been replaced O=orphaned, & no longer serves a (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is water right file.) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet) closed) POD Sub-000Water DistanceDepthWellDepthWater Column **POD Number** Code basin County 64 16 4 Sec Tws Rng Х Y L 08898 L LE 4 1 1 20 16S 36E 651269 3642693* 161 147 70 77 L 06937 L LE 2 2 19 36E 650867 3642686* 383 110 69 41 4 16S L 06963 L LE 36E 3643089* 430 4 4 4 18 16S 650861 120 80 40 L 07063 LE 2 4 4 18 36E 650861 567 120 L 16S 3643289* 80 40 L 06982 LE 4 18 36E 650762 3643190* 569 120 72 48 L 4 16S L 04437 3 36E L LE 17 16S 651365 3643398* 571 120 95 25 L 3643048 L 15142 POD1 LE 3 4 4 18 36E 650616 633 165 90 75 16S L 13746 POD1 L LE 4 4 18 36E 650553 683 123 3 16S 3643011 🦲 60 63 L 00209 POD5 36E L LE 3 2 3 17 16S 651460 3643506* 🦲 703 127 83 44 L 13994 POD1 L LE 4 3 4 18 36E 650460 3643073 🧲 789 137 16S 63 74 L 00209 POD7 L LE 3 4 17 16S 36E 651972 3643212* 839 128 72 56 L 07649 POD4 L LE 3 4 17 16S 36E 651972 3643212* 839 140 69 71 L 00150 POD4 LE 1 2 19 36E 650366 3642780* 852 95 L 16S L 07442 L LE 20 16S 36E 651793 3642188* 875 130 L 06132 L LE 2 4 18 16S 36E 650755 3643593* 877 98 70 28 105 L 10712 LE 4 36E 650755 3643593* 🧲 877 60 L 2 18 16S 165 L 00150 L LE 1 1 2 19 16S 36E 650265 3642879* 951 125 L 00150 S L LE 1 2 19 16S 36E 650265 3642679* 965 80 3 L 07444 LE 1 3 2 19 36E 650271 1014 178 120 L 16S 3642476* 58 L 04598 L LE 2 4 18 16S 36E 650654 3643692* 1015 136 75 61 1 L 06934 L LE 2 4 18 16S 36E 650654 3643692* 1015 118 68 50 1 L 06935 LE $1\quad 2\quad 4\quad 18$ L 16S 36E 650654 3643692* 🧲 1015 120 72 48 L 10572 L LE 2 2 20 36E 652282 3642915* 150 70 80 1 16S 1068 L 00209 S L LE 3 3 1 17 16S 36E 651050 3643902* 1069 100 60 40 L 07649 L LE 17 16S 36E 651767 3643800* 1101 140 72 68 LE L 00268 POD4 2 2 1 19 36E 100 62 L 16S 650063 3642872* 1153 38 L 00209 S2 L LE 3 1 17 16S 36E 651151 3644003* 1158 173 68 105 L 00209 S2 R L LE 3 1 17 16S 36E 651151 3644003* 1158 173 68 105 L 00268 POD5 2 100 L LE 4 1 19 16S 36E 650063 3642672* 1166 58 42 L 14659 POD1 L LE 2 4 1 19 16S 36E 650072 3642584 1173 165 130 35 L 00268 POD6 L LE 2 4 1 19 16S 36E 650069 3642469* 1207 116 58 58 L_02783 2 4 1 19 L LE 36E 650069 3642469* 1207 80 50 30 16S L 00268 S L LE 19 16S 36E 650216 3642161* 1212 79 45 34

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USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	Data Category:	Geographic Area:	
	Groundwater •	United States	✓ GO

Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Attention current WaterAlert users: NextGen WaterAlert is replacing Legacy WaterAlert. You must take action before 9/30/2022 to retain your alerts. Read more.
- Full News

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

site_no list =

• 325402103232601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325402103232601 16S.36E.19.41333

Available data for this site Groundwater: Field measurements

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Lea County, New Mexico Hydrologic Unit Code 12080003 Latitude 32°54'14", Longitude 103°23'36" NAD27 Land-surface elevation 3,957.00 feet above NGVD29 The depth of the well is 130 feet below land surface. This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Table of data
Tab-separated data
Graph of data
Reselect period



Period of approved data

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

Questions about sites/data? Feedback on this web site Automated retrievals Help

USGS 325402103232601 165.36E.19.41333

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Data Tips Explanation of terms Subscribe for system changes News

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

Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team Page Last Modified: 2022-09-15 12:11:51 EDT 0.56 0.49 nadww02



U.S. Fish and Wildlife Service

National Wetlands Inventory

Wetlands Map



Wetlands

- Estuarine and Marine Wetland

Estuarine and Marine Deepwater

- Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake Other Riverine 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.

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Appendix B

Soil Survey & Geological Data FEMA Flood Map

Lea County, New Mexico

Ph—Portales loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: f5t2 Elevation: 2,600 to 5,300 feet Mean annual precipitation: 16 to 21 inches Mean annual air temperature: 57 to 63 degrees F Frost-free period: 185 to 220 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Portales and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Portales

Setting

Landform: Playa steps, interdunes, plains Down-slope shape: Convex, linear, concave Across-slope shape: Linear Parent material: Calcareous loamy eolian deposits and/or lacustrine deposits

Typical profile

Ap - 0 to 15 inches: loam Bk1 - 15 to 35 inches: clay loam Bk2 - 35 to 43 inches: loam Bkk - 43 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 3.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.6

inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 3e Hydrologic Soil Group: B Ecological site: R077CY028TX - Limy Upland 16-21" PZ Hydric soil rating: No

Minor Components

Midessa

Percent of map unit: 10 percent Landform: Plains Down-slope shape: Linear Across-slope shape: Linear Ecological site: R077CY028TX - Limy Upland 16-21" PZ Hydric soil rating: No

Posey

Percent of map unit: 3 percent Landform: Plains Down-slope shape: Linear Across-slope shape: Linear Ecological site: R077CY028TX - Limy Upland 16-21" PZ Hydric soil rating: No

Acuff

Percent of map unit: 2 percent Landform: Plains Down-slope shape: Linear Across-slope shape: Linear Ecological site: R077CY022TX - Deep Hardland 16-21" PZ Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 18, Sep 10, 2021



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Legend

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



Appendix C

C-141 Form Correspondence District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

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Incident ID	nAPP2118726438
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible: Party Armstrong Energy Corporation	OGRID
Contact Name: Kyle Alpers	Contact Telephone: 575-626-2727
Contact email: kalpers@aecnm.com	Incident # (assigned by OCD); nAPP2118726438
Contact mailing address	

Location of Release Source

Latitude 32.91326_

Longitude -103.38241_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Ruth 20 #002	Site Type: Oil
Date Release Discovered: 07/05/2021	API# (if applicable): 30-025-36866

Unit Letter	Section	Township	Range	County
D	20	16S	36E	Lea

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls): 170	Volume Recovered (bbls): 40
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

A lightning strike caused a fire leading to a produced water spill out of a water tank.

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2	Oil Conservation Division	Incident ID	nAPP2118726438
2	On Conservation Division	District RP	
		Facility ID Application ID	
		rppileation iD	
Vas this a major elease as defined by 9.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible part This is considered a major release because it is ov		?
🛛 Yes 🔲 No			
f YES, was immediate n	otice given to the OCD? By whom? To whom? Whe	en and by what means (phone,	email, etc)?
Yes, Kyle Alpe	rs to Kerry Fortner on 7/5/2021 via phone/Email		
	Initial Response	0	
	Initial Response	C	
The responsible	party must undertake the following actions immediately unless they	could create a safety hazard that wo	uld result in injury
The source of the rel	ease has been stopped.		
	as been secured to protect human health and the enviro	nment	
	ave been contained via the use of berms or dikes, abso		ant daviaas
		-	ent devices.
	ecoverable materials have been removed and managed	appropriately.	
f all the actions describe	d above have <u>not</u> been undertaken, explain why:		
Per 19.15.29.8 B. (4) NM	IAC the responsible party may commence remediation	n immediately after discovery ve been successfully complete	of a release. If remediatio

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.

within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

Printed Name:Jeffery Tew	Title: Operations Engineer
Signature: Jeffery Tew	Date:
email:jtew@aecnm.com	Telephone:575-625-2222
OCD Only	
Received by: Jocelyn Harimon	Date:09/08/2022

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Oil Conservation Division

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Incident ID	nAPP2118726438
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>90</u> (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
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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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Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

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Application ID	

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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: _____ Title: _____ Signature: Date: Telephone: email: OCD Only Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

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Oil Conservation Division

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. Title: _____Operations Engineer_____ Printed Name: _____Jeffery Tew_____
 Signature:
 Deffery Tew
 Date:
 12/2/2022

 email:
 _itew@aecnm.com
 Telephone:
 _575-625
 Telephone: 575-625-2222 **OCD Only** Received by: _____ Date: _____ Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Title: Environmental Specialist A

Sebastian@pimaoil.com

From:	Nobui, Jennifer, EMNRD <jennifer.nobui@emnrd.nm.gov></jennifer.nobui@emnrd.nm.gov>
Sent:	Tuesday, November 15, 2022 3:03 PM
То:	sebastian@pimaoil.com
Cc:	Bratcher, Michael, EMNRD; Billings, Bradford, EMNRD
Subject:	RE: [EXTERNAL] Ruth 20 #002 (NAPP2118726438)

Yes

From: sebastian@pimaoil.com <sebastian@pimaoil.com>
Sent: Tuesday, November 15, 2022 2:59 PM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Ruth 20 #002 (NAPP2118726438)

Thank you for getting back to me so promptly. If I am understanding correctly, would an additional four side wall samples (West of S1 and S7, East of S2 and S8) be sufficient?

Respectfully, Sebastian Orozco

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Tuesday, November 15, 2022 2:18 PM
To: sebastian@pimaoil.com
Cc: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>; Bratcher, Michael, EMNRD
<mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Ruth 20 #002 (NAPP2118726438)

Hello Sebastian

OCD requires the release to be delineated laterally to the strictest criteria (600 mg/mg chloride, 100 mg/kg TPH, etc) to define the edges of the release, even on pad regardless of depth to water. While you provided 4 lateral delineation points (SW1, SW2, SW3, & SW4), locations S1, S2, S7, & S8 had elevated chloride detections (>600 mg/kg) at 1'. There were no lateral step out delineation points west of S1 or east of S2, etc, to verify the release had been sufficiently delineated. I used data from SW2 and SW4 to cover lateral delineation points for S3 through S6. To close this case out, we need delineation to be completed. Please let me know if you have any questions.

Thanks,

Jennifer Nobui, PG • Environmental Specialist A Environmental Bureau EMNRD - Oil Conservation Division 5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113 505.470-3407 | Jennifer.Nobui@state.nm.us http://www.emnrd.state.nm.us/OCD/

From: sebastian@pimaoil.com>
Sent: Friday, November 11, 2022 3:27 PM

To: Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@emnrd.nm.gov</u>> Subject: [EXTERNAL] Ruth 20 #002 (NAPP2118726438)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

It has come to my attention that incident number NAPP2118726438, pertaining to the Ruth 20 #002 location belonging to Armstrong Energy Corporation has been rejected. Can you please elaborate on what the requirements for closure pertain to? In the OCD portal it says, "Closure Report Denied. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Additional data is needed at S-1, S-2, S-7, and S-8 at 1' to show lateral delineation. Also report states release was due to a lightning strike on 1/4/08 but C-141 states 7/5/21. Please clarify. Please resubmit a revised Closure Report to the OCD portal by December 9, 2022". I am kind of confused, our analytical results indicate non-detect levels for all four side wall samples; as well as vertical delineation demonstrated by samples S1-S8. I've attached a site map including all sample points, as well as a polygon outlining the potential release area. Keep in mind this tank battery has been removed, the area that was sampled is caliche from the engineered pad underlying the previous containment. If you could please shine some light on how to close this incident, I would really appreciate it. Thank you much, have a great weekend.

Respectfully, Sebastian Orozco Environmental Professional 5614 N Lovington Hwy, Hobbs, NM 88240 <u>Sebastian@pimaoil.com</u> 619-721-4813 cell





Appendix D

Photographic Documentation



SITE PHOTOGRAPHS PIMA ENVIORNMENTAL

Ruth 20 #002





Appendix E

Laboratory Reports



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name:

Ruth 20 #2

Work Order:	E209119

Job Number: 22093-0001

Received: 9/21/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/27/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979) Date Reported: 9/27/22

Tom Bynum PO Box 247 Plains, TX 79355-0247

Project Name: Ruth 20 #2 Workorder: E209119 Date Received: 9/21/2022 10:45:00AM

Tom Bynum,



Page 31 of 70

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/21/2022 10:45:00AM, under the Project Name: Ruth 20 #2.

The analytical test results summarized in this report with the Project Name: Ruth 20 #2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services

Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Received by OCD: 12/2/2022 2:43:32 PM

Sample Summarv

		Sample Sum	mary			
Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247		Project Name: Project Number: Project Manager:	Ruth 20 #2 22093-0001 Tom Bynum		Reported: 09/27/22 16:18	
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
5.1 1'	E209119-01A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
5.1 2'	E209119-02A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
5.2 1'	E209119-03A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
5.2 2'	E209119-04A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
3.3 1'	E209119-05A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
3.3 2'	E209119-06A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
5.4 1'	E209119-07A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
3.4 2'	E209119-08A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
5.5 1'	E209119-09A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
3.5 2'	E209119-10A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
5.6 1'	E209119-11A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
3.6 2'	E209119-12A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
5.7 1'	E209119-13A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
5.7 2'	E209119-14A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
5.8 1'	E209119-15A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
5.8 2'	E209119-16A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
W1	E209119-17A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
W2	E209119-18A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
W3	E209119-19A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
W4	E209119-20A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
G1	E209119-21A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	
3G2	E209119-22A	Soil	09/15/22	09/21/22	Glass Jar, 4 oz.	



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		imple Da	uu				
Pima Environmental Services-Carlsbad	Project Name:	Ruth	n 20 #2				
PO Box 247	Project Numbe	ct Number: 22093-0001				Reported:	
Plains TX, 79355-0247	Project Manag	er: Tom	Bynum				9/27/2022 4:18:28PM
		S.1 1'					
		E209119-01					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2239070
Benzene	ND	0.0250	:	1	09/21/22	09/26/22	
Ethylbenzene	ND	0.0250	:	1	09/21/22	09/26/22	
Toluene	ND	0.0250	1	1	09/21/22	09/26/22	
-Xylene	ND	0.0250	1	1	09/21/22	09/26/22	
,m-Xylene	ND	0.0500	:	1	09/21/22	09/26/22	
fotal Xylenes	ND	0.0250	1	1	09/21/22	09/26/22	
urrogate: Bromofluorobenzene		102 %	70-130		09/21/22	09/26/22	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130		09/21/22	09/26/22	
urrogate: Toluene-d8		106 %	70-130		09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	09/21/22	09/26/22	
urrogate: Bromofluorobenzene		102 %	70-130		09/21/22	09/26/22	
urrogate: 1,2-Dichloroethane-d4		91.2 %	70-130		09/21/22	09/26/22	
urrogate: Toluene-d8		106 %	70-130		09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1	1	09/23/22	09/23/22	
Dil Range Organics (C28-C36)	ND	50.0	1	1	09/23/22	09/23/22	
urrogate: n-Nonane		86.7 %	50-200		09/23/22	09/23/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: F	RAS		Batch: 2239104
Chloride	2490	200	1	0	09/23/22	09/23/22	

Sample Data



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Received by OCD: 12/2/2022 2:43:32 PM

	S	Sample D	ata			
Pima Environmental Services-Carlsbad PO Box 247	Project Nam Project Num		n 20 #2 93-0001			Reported:
Plains TX, 79355-0247	Project Man		Bynum			9/27/2022 4:18:28PM
		S.1 2'				
		E209119-02				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2239070
Benzene	ND	0.0250	1	09/21/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/26/22	
Toluene	ND	0.0250	1	09/21/22	09/26/22	
-Xylene	ND	0.0250	1	09/21/22	09/26/22	
,m-Xylene	ND	0.0500	1	09/21/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/21/22	09/26/22	
Surrogate: Bromofluorobenzene		97.1 %	70-130	09/21/22	09/26/22	
urrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	09/21/22	09/26/22	
Surrogate: Toluene-d8		104 %	70-130	09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/22	09/26/22	
'urrogate: Bromofluorobenzene		97.1 %	70-130	09/21/22	09/26/22	
urrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	09/21/22	09/26/22	
urrogate: Toluene-d8		104 %	70-130	09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg	Aı	nalyst: JL		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1	09/23/22	09/23/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/23/22	09/23/22	
urrogate: n-Nonane		88.9 %	50-200	09/23/22	09/23/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: RAS		Batch: 2239104
Chloride	81.2	20.0	1	09/23/22	09/23/22	

.


	S	Sample D	ata			
Pima Environmental Services-Carlsbad PO Box 247	Project Nam Project Num	ber: 2209	n 20 #2 93-0001			Reported:
Plains TX, 79355-0247	Project Mana	ager: Tom	Bynum			9/27/2022 4:18:28PM
		S.2 1'				
		E209119-03				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepa	red Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2239070
Benzene	ND	0.0250	1	09/21	/22 09/26/22	
Ethylbenzene	ND	0.0250	1	09/21	/22 09/26/22	
Toluene	ND	0.0250	1	09/21	/22 09/26/22	
-Xylene	ND	0.0250	1	09/21	/22 09/26/22	
o,m-Xylene	ND	0.0500	1	09/21	/22 09/26/22	
Total Xylenes	ND	0.0250	1	09/21	/22 09/26/22	
Surrogate: Bromofluorobenzene		98.0 %	70-130	09/21	/22 09/26/22	
urrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	09/21	/22 09/26/22	
urrogate: Toluene-d8		104 %	70-130	09/21	/22 09/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21	/22 09/26/22	
urrogate: Bromofluorobenzene		98.0 %	70-130	09/21	/22 09/26/22	
urrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	09/21	/22 09/26/22	
urrogate: Toluene-d8		104 %	70-130	09/21	/22 09/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: JL		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1	09/23	/22 09/23/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/23	/22 09/23/22	
urrogate: n-Nonane		91.5 %	50-200	09/23	/22 09/23/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2239104
Chloride	1830	100	5	09/23	/22 09/23/22	

	S	Sample D	ata			
Pima Environmental Services-Carlsbad PO Box 247	Project Nam Project Num		n 20 #2 93-0001			Reported:
Plains TX, 79355-0247	Project Man	ager: Tom	Bynum			9/27/2022 4:18:28PM
		S.2 2'				
		E209119-04				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2239070
Benzene	ND	0.0250	1	09/21/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/26/22	
Toluene	ND	0.0250	1	09/21/22	09/26/22	
-Xylene	ND	0.0250	1	09/21/22	09/26/22	
,m-Xylene	ND	0.0500	1	09/21/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/21/22	09/26/22	
Surrogate: Bromofluorobenzene		98.8 %	70-130	09/21/22	09/26/22	
urrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	09/21/22	09/26/22	
urrogate: Toluene-d8		106 %	70-130	09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/22	09/26/22	
urrogate: Bromofluorobenzene		98.8 %	70-130	09/21/22	09/26/22	
urrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	09/21/22	09/26/22	
Surrogate: Toluene-d8		106 %	70-130	09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg	A	nalyst: JL		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1	09/23/22	09/23/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/23/22	09/23/22	
urrogate: n-Nonane		92.5 %	50-200	09/23/22	09/23/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: RAS		Batch: 2239104
Chloride	88.0	20.0	1	09/23/22	09/24/22	

	S	ample D	ata			
Pima Environmental Services-Carlsbad	Project Name	e: Ruth	n 20 #2			
PO Box 247	Project Numb	per: 2209	93-0001			Reported:
Plains TX, 79355-0247	Project Mana	iger: Tom	Bynum			9/27/2022 4:18:28PM
		S.3 1'				
		E209119-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst	Analyst: IY		Batch: 2239070
Benzene	ND	0.0250	1	09/21/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/26/22	
Foluene	ND	0.0250	1	09/21/22	09/26/22	
p-Xylene	ND	0.0250	1	09/21/22	09/26/22	
o,m-Xylene	ND	0.0500	1	09/21/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/21/22	09/26/22	
Surrogate: Bromofluorobenzene		96.1 %	70-130	09/21/22	09/26/22	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	09/21/22	09/26/22	
Surrogate: Toluene-d8		105 %	70-130	09/21/22	09/26/22	
Nonhologonated Organics by EDA 9015D CDO	ma/ka	mg/kg	Analyst	· IY		Batch: 2239070

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analys	t: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/21/22	09/26/22	
Surrogate: Bromofluorobenzene		96.1 %	70-130		09/21/22	09/26/22	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		09/21/22	09/26/22	
Surrogate: Toluene-d8		105 %	70-130		09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analys	it: JL		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0		1	09/23/22	09/23/22	
Oil Range Organics (C28-C36)	ND	50.0		1	09/23/22	09/23/22	
Surrogate: n-Nonane		87.3 %	50-200		09/23/22	09/23/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analys	t: RAS		Batch: 2239104
Chloride	2060	200		10	09/23/22	09/24/22	



	S	Sample D	ata			
Pima Environmental Services-Carlsbad	Project Name		n 20 #2			
PO Box 247	Project Num		93-0001			Reported:
Plains TX, 79355-0247	Project Mana	ager: Tom	Bynum			9/27/2022 4:18:28PM
		S.3 2'				
		E209119-06				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ar	alyst: IY		Batch: 2239070
Benzene	ND	0.0250	1	09/21/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/26/22	
Toluene	ND	0.0250	1	09/21/22	09/26/22	
-Xylene	ND	0.0250	1	09/21/22	09/26/22	
,m-Xylene	ND	0.0500	1	09/21/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/21/22	09/26/22	
'urrogate: Bromofluorobenzene		98.9 %	70-130	09/21/22	09/26/22	
urrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	09/21/22	09/26/22	
urrogate: Toluene-d8		105 %	70-130	09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	alyst: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/22	09/26/22	
urrogate: Bromofluorobenzene		98.9 %	70-130	09/21/22	09/26/22	
urrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	09/21/22	09/26/22	
urrogate: Toluene-d8		105 %	70-130	09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO) mg/kg	mg/kg	Ar	alyst: JL		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1	09/23/22	09/23/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/23/22	09/23/22	
Surrogate: n-Nonane		90.5 %	50-200	09/23/22	09/23/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	alyst: RAS		Batch: 2239104
Chloride	53.2	20.0	1	09/23/22	09/24/22	

	S	Sample D	ata			
Pima Environmental Services-Carlsbad	Project Nam		n 20 #2			
PO Box 247	Project Num		93-0001			Reported:
Plains TX, 79355-0247	Project Man	ager: Tom	Bynum			9/27/2022 4:18:28PM
		S.4 1'				
		E209119-07				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: IY		Batch: 2239070
Benzene	ND	0.0250	1	09/21/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/26/22	
oluene	ND	0.0250	1	09/21/22	09/26/22	
-Xylene	ND	0.0250	1	09/21/22	09/26/22	
,m-Xylene	ND	0.0500	1	09/21/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/21/22	09/26/22	
urrogate: Bromofluorobenzene		97.1 %	70-130	09/21/22	09/26/22	
urrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	09/21/22	09/26/22	
urrogate: Toluene-d8		107 %	70-130	09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/22	09/26/22	
urrogate: Bromofluorobenzene		97.1 %	70-130	09/21/22	09/26/22	
urrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	09/21/22	09/26/22	
urrogate: Toluene-d8		107 %	70-130	09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg	An	alyst: JL		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1	09/23/22	09/24/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/23/22	09/24/22	
Surrogate: n-Nonane		90.4 %	50-200	09/23/22	09/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2239104
Chloride	1110	200	10	09/23/22	09/24/22	

	•	Sample D	oto			
			ลเล			
Pima Environmental Services-Carlsbad	Project Nam	e: Rutl	n 20 #2			
PO Box 247	Project Number: 22093-0001					Reported:
Plains TX, 79355-0247	Project Man	ager: Tom	n Bynum			9/27/2022 4:18:28PI
		S.4 2'				
		E209119-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	Analyst: IY		Batch: 2239070
Benzene	ND	0.0250	1	09/21/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/26/22	
Toluene	ND	0.0250	1	09/21/22	09/26/22	
p-Xylene	ND	0.0250	1	09/21/22	09/26/22	
p,m-Xylene	ND	0.0500	1	09/21/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/21/22	09/26/22	
Surrogate: Bromofluorobenzene		96.9 %	70-130	09/21/22	09/26/22	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	09/21/22	09/26/22	
Surrogate: Toluene-d8		104 %	70-130	09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/22	09/26/22	
Surrogate: Bromofluorobenzene		96.9 %	70-130	09/21/22	09/26/22	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	09/21/22	09/26/22	
Surrogate: Toluene-d8		104 %	70-130	09/21/22	09/26/22	
	no ma/ka	malka	٨٣٥	Jvet: II		Datah. 2220005

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL			Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1	l	09/23/22	09/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	l	09/23/22	09/24/22	
Surrogate: n-Nonane		86.8 %	50-200		09/23/22	09/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analys	st: RAS		Batch: 2239104
Chloride	97.8	20.0	1	l	09/23/22	09/24/22	



	S	ample D	ata			
Pima Environmental Services-Carlsbad	Project Name	-	n 20 #2			
PO Box 247	Project Numb					Reported:
Plains TX, 79355-0247	Project Mana		Bynum			9/27/2022 4:18:28PM
		S.5 1'				
		E209119-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2239070
Benzene	ND	0.0250	1	09/21/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/26/22	
oluene	ND	0.0250	1	09/21/22	09/26/22	
-Xylene	ND	0.0250	1	09/21/22	09/26/22	
,m-Xylene	ND	0.0500	1	09/21/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/21/22	09/26/22	
urrogate: Bromofluorobenzene		96.6 %	70-130	09/21/22	09/26/22	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	09/21/22	09/26/22	
urrogate: Toluene-d8		105 %	70-130	09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2239070

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analy	st: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/21/22	09/26/22	
Surrogate: Bromofluorobenzene		96.6 %	70-130		09/21/22	09/26/22	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130		09/21/22	09/26/22	
Surrogate: Toluene-d8		105 %	70-130		09/21/22	09/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analy	st: JL		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0		1	09/23/22	09/24/22	
Oil Range Organics (C28-C36)	ND	50.0		1	09/23/22	09/24/22	
Surrogate: n-Nonane		84.6 %	50-200		09/23/22	09/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analy	st: RAS		Batch: 2239104
Chloride	2290	200		10	09/23/22	09/24/22	



	S	Sample D	ata				
Pima Environmental Services-Carlsbad PO Box 247	Project Nam Project Num	ber: 2209	n 20 #2 93-0001				Reported:
Plains TX, 79355-0247	Project Man	ager: Tom	Bynum				9/27/2022 4:18:28PM
		S.5 2'					
		E209119-10					
		Reporting					
Analyte	Result	Limit	Dilut	tion l	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY			Batch: 2239070
Benzene	ND	0.0250	1	(09/21/22	09/27/22	
Ethylbenzene	ND	0.0250	1	(09/21/22	09/27/22	
oluene	ND	0.0250	1	(09/21/22	09/27/22	
-Xylene	ND	0.0250	1	(09/21/22	09/27/22	
,m-Xylene	ND	0.0500	1	(09/21/22	09/27/22	
otal Xylenes	ND	0.0250	1	(09/21/22	09/27/22	
urrogate: Bromofluorobenzene		96.5 %	70-130	(09/21/22	09/27/22	
urrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	(09/21/22	09/27/22	
urrogate: Toluene-d8		103 %	70-130	(09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY			Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	(09/21/22	09/27/22	
urrogate: Bromofluorobenzene		96.5 %	70-130	(09/21/22	09/27/22	
urrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	(09/21/22	09/27/22	
urrogate: Toluene-d8		103 %	70-130	(09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL			Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1	(09/23/22	09/24/22	
Dil Range Organics (C28-C36)	ND	50.0	1	(09/23/22	09/24/22	
'urrogate: n-Nonane		87.3 %	50-200	(09/23/22	09/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS	S		Batch: 2239104
Chloride	37.8	20.0	1	(09/23/22	09/24/22	

	S	Sample D	ata			
Pima Environmental Services-Carlsbad	Project Nam	e: Ruth	n 20 #2			
PO Box 247	Project Num		93-0001			Reported:
Plains TX, 79355-0247	Project Man	ager: Tom	Bynum			9/27/2022 4:18:28PM
		S.6 1'				
		E209119-11				
		Reporting				
Analyte	Result	Limit	Diluti	ion Prepare	d Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	analyst: IY		Batch: 2239070
Benzene	ND	0.0250	1	09/21/2	2 09/27/22	
Ethylbenzene	ND	0.0250	1	09/21/2	2 09/27/22	
Toluene	ND	0.0250	1	09/21/2	2 09/27/22	
o-Xylene	ND	0.0250	1	09/21/2	2 09/27/22	
o,m-Xylene	ND	0.0500	1	09/21/2	2 09/27/22	
Total Xylenes	ND	0.0250	1	09/21/2	2 09/27/22	
Surrogate: Bromofluorobenzene		98.1 %	70-130	09/21/2	2 09/27/22	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	09/21/2	2 09/27/22	
Surrogate: Toluene-d8		104 %	70-130	09/21/2	2 09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	analyst: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/2	2 09/27/22	
Surrogate: Bromofluorobenzene		98.1 %	70-130	09/21/2	2 09/27/22	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	09/21/2	2 09/27/22	
Surrogate: Toluene-d8		104 %	70-130	09/21/2	2 09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	analyst: JL		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1	09/23/2	2 09/24/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/23/2	2 09/24/22	
Surrogate: n-Nonane		91.5 %	50-200	09/23/2	2 09/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	analyst: RAS		Batch: 2239104
Chloride	2310	200	10	09/23/2	2 09/24/22	

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	S	Sample D	ata			
Pima Environmental Services-Carlsbad	Project Nam		n 20 #2			
PO Box 247	Project Num		93-0001			Reported:
Plains TX, 79355-0247	Project Man	ager: Tom	Bynum			9/27/2022 4:18:28PM
		S.6 2'				
		E209119-12				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	nalyst: IY		Batch: 2239070
Benzene	ND	0.0250	1	09/21/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/27/22	
Toluene	ND	0.0250	1	09/21/22	09/27/22	
-Xylene	ND	0.0250	1	09/21/22	09/27/22	
,m-Xylene	ND	0.0500	1	09/21/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/21/22	09/27/22	
urrogate: Bromofluorobenzene		98.2 %	70-130	09/21/22	09/27/22	
urrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	09/21/22	09/27/22	
urrogate: Toluene-d8		107 %	70-130	09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	nalyst: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/22	09/27/22	
urrogate: Bromofluorobenzene		98.2 %	70-130	09/21/22	09/27/22	
urrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	09/21/22	09/27/22	
Surrogate: Toluene-d8		107 %	70-130	09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO) mg/kg	mg/kg	А	nalyst: JL		Batch: 2239095
Diesel Range Organics (C10-C28)	30.4	25.0	1	09/23/22	09/24/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/23/22	09/24/22	
urrogate: n-Nonane		85.3 %	50-200	09/23/22	09/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	nalyst: RAS		Batch: 2239104
Chloride	92.2	20.0	1	09/23/22	09/24/22	

	S	Sample Da	ata			
Pima Environmental Services-Carlsbad	Project Nam	e: Ruth	n 20 #2			
PO Box 247	Project Num		93-0001			Reported:
Plains TX, 79355-0247	Project Man	ager: Tom	Bynum			9/27/2022 4:18:28PM
		S.7 1'				
		E209119-13				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2239070
Benzene	ND	0.0250	1	09/21/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/27/22	
Toluene	ND	0.0250	1	09/21/22	09/27/22	
o-Xylene	ND	0.0250	1	09/21/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/21/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/21/22	09/27/22	
Surrogate: Bromofluorobenzene		98.2 %	70-130	09/21/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	09/21/22	09/27/22	
Surrogate: Toluene-d8		106 %	70-130	09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/22	09/27/22	
Surrogate: Bromofluorobenzene		98.2 %	70-130	09/21/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	09/21/22	09/27/22	
Surrogate: Toluene-d8		106 %	70-130	09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1	09/23/22	09/24/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/23/22	09/24/22	
urrogate: n-Nonane		93.4 %	50-200	09/23/22	09/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2239104
Chloride	2300	100	5	09/23/22	09/24/22	

	S	Sample D	ata			
Pima Environmental Services-Carlsbad	Project Nam		n 20 #2			
PO Box 247	Project Num		93-0001			Reported:
Plains TX, 79355-0247	Project Man	ager: Tom	Bynum			9/27/2022 4:18:28PM
		S.7 2'				
		E209119-14				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	Analyst: IY		Batch: 2239070
Benzene	ND	0.0250	1	09/21/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/27/22	
Toluene	ND	0.0250	1	09/21/22	09/27/22	
-Xylene	ND	0.0250	1	09/21/22	09/27/22	
,m-Xylene	ND	0.0500	1	09/21/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/21/22	09/27/22	
urrogate: Bromofluorobenzene		96.6 %	70-130	09/21/22	09/27/22	
urrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	09/21/22	09/27/22	
urrogate: Toluene-d8		105 %	70-130	09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/22	09/27/22	
urrogate: Bromofluorobenzene		96.6 %	70-130	09/21/22	09/27/22	
urrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	09/21/22	09/27/22	
urrogate: Toluene-d8		105 %	70-130	09/21/22	09/27/22	
onhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg	А	Analyst: JL		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1	09/23/22	09/24/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/23/22	09/24/22	
'urrogate: n-Nonane		78.4 %	50-200	09/23/22	09/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2239104
Chloride	89.7	20.0	1	09/23/22	09/24/22	

	S	Sample D	ata			
Pima Environmental Services-Carlsbad	Project Name		a 20 #2			
PO Box 247	Project Num		93-0001			Reported:
Plains TX, 79355-0247	Project Mana	ager: Tom	Bynum			9/27/2022 4:18:28PM
		S.8 1'				
		E209119-15				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: IY		Batch: 2239070
Benzene	ND	0.0250	1	09/21/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/27/22	
Toluene	ND	0.0250	1	09/21/22	09/27/22	
-Xylene	ND	0.0250	1	09/21/22	09/27/22	
,m-Xylene	ND	0.0500	1	09/21/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/21/22	09/27/22	
urrogate: Bromofluorobenzene		95.8 %	70-130	09/21/22	09/27/22	
urrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	09/21/22	09/27/22	
urrogate: Toluene-d8		105 %	70-130	09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/22	09/27/22	
urrogate: Bromofluorobenzene		95.8 %	70-130	09/21/22	09/27/22	
urrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	09/21/22	09/27/22	
urrogate: Toluene-d8		105 %	70-130	09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO) mg/kg	mg/kg	An	alyst: JL		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1	09/23/22	09/24/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/23/22	09/24/22	
Surrogate: n-Nonane		98.4 %	50-200	09/23/22	09/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2239104
Chloride	2730	200	10	09/23/22	09/24/22	

	S	Sample Da	ata				
Pima Environmental Services-Carlsbad	Project Nam	e: Ruth	n 20 #2				
PO Box 247	Project Num		93-0001				Reported:
Plains TX, 79355-0247	Project Man	ager: Tom	Bynum				9/27/2022 4:18:28PM
		S.8 2'					
		E209119-16					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY			Batch: 2239070
Benzene	ND	0.0250	1		09/21/22	09/27/22	
Ethylbenzene	ND	0.0250	1		09/21/22	09/27/22	
Toluene	ND	0.0250	1		09/21/22	09/27/22	
o-Xylene	ND	0.0250	1		09/21/22	09/27/22	
o,m-Xylene	ND	0.0500	1		09/21/22	09/27/22	
Total Xylenes	ND	0.0250	1		09/21/22	09/27/22	
Surrogate: Bromofluorobenzene		98.1 %	70-130		09/21/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130		09/21/22	09/27/22	
Surrogate: Toluene-d8		106 %	70-130		09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY			Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1		09/21/22	09/27/22	
'urrogate: Bromofluorobenzene		98.1 %	70-130		09/21/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130		09/21/22	09/27/22	
Surrogate: Toluene-d8		106 %	70-130		09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: JL			Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1		09/23/22	09/24/22	
Dil Range Organics (C28-C36)	ND	50.0	1		09/23/22	09/24/22	
Surrogate: n-Nonane		96.0 %	50-200		09/23/22	09/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: RA	S		Batch: 2239104
Chloride	88.3	20.0	1		09/23/22	09/24/22	

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	~					Iuge
	2	Sample Da	ata			
Pima Environmental Services-Carlsbad	Project Name	e: Ruth	n 20 #2			
PO Box 247	Project Num	ber: 2209	93-0001			Reported:
Plains TX, 79355-0247	Project Mana	ager: Tom	Bynum			9/27/2022 4:18:28PM
		SW1				
		E209119-17				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg		Batch: 2239070			
Benzene	ND	0.0250	1	09/21/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/27/22	
Toluene	ND	0.0250	1	09/21/22	09/27/22	
-Xylene	ND	0.0250	1	09/21/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/21/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/21/22	09/27/22	
urrogate: Bromofluorobenzene		96.1 %	70-130	09/21/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	09/21/22	09/27/22	
urrogate: Toluene-d8		107 %	70-130	09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/22	09/27/22	
urrogate: Bromofluorobenzene		96.1 %	70-130	09/21/22	09/27/22	
urrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	09/21/22	09/27/22	
Surrogate: Toluene-d8		107 %	70-130	09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: JL		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0	1	09/23/22	09/24/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/23/22	09/24/22	
urrogate: n-Nonane		97.3 %	50-200	09/23/22	09/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2239104
Chloride	ND	20.0	1	09/23/22	09/24/22	

Acceived by OCD. 12/2/2022 2.45.52 FM							ruge
	S	ample D	ata				
Pima Environmental Services-Carlsbad	Project Name	:: Rutl	n 20 #2				
PO Box 247	Project Numb	ber: 2209	93-0001				Reported:
Plains TX, 79355-0247	Project Mana	ger: Tom	n Bynum				9/27/2022 4:18:28PM
		SW2					
		E209119-18					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2239070
Benzene	ND	0.0250		1	09/21/22	09/27/22	
thylbenzene	ND	0.0250		1	09/21/22	09/27/22	
oluene	ND	0.0250		1	09/21/22	09/27/22	
-Xylene	ND	0.0250		1	09/21/22	09/27/22	
,m-Xylene	ND	0.0500		1	09/21/22	09/27/22	
otal Xylenes	ND	0.0250		1	09/21/22	09/27/22	
urrogate: Bromofluorobenzene		98.3 %	70-130		09/21/22	09/27/22	
urrogate: 1,2-Dichloroethane-d4		94.8 %	70-130		09/21/22	09/27/22	
urrogate: Toluene-d8		105 %	70-130		09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/21/22	09/27/22	
urrogate: Bromofluorobenzene		98.3 %	70-130		09/21/22	09/27/22	
urrogate: 1,2-Dichloroethane-d4		94.8 %	70-130		09/21/22	09/27/22	
urrogate: Toluene-d8		105 %	70-130		09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	Л		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0		1	09/23/22	09/24/22	
Dil Range Organics (C28-C36)	ND	50.0		1	09/23/22	09/24/22	
urrogate: n-Nonane		98.0 %	50-200		09/23/22	09/24/22	

Surrogate. In Frontine		20.070	20 200			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2239104
Chloride	ND	20.0	1	09/23/22	09/24/22	



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	S	Sample D	ata				
Pima Environmental Services-Carlsbad	Project Name	e: Rutl	n 20 #2				
PO Box 247	Project Num		93-0001				Reported:
Plains TX, 79355-0247	Project Mana	ager: Tom	n Bynum				9/27/2022 4:18:28PM
		SW3					
		E209119-19					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2239070
Benzene	ND	0.0250		1	09/21/22	09/27/22	
Ethylbenzene	ND	0.0250		1	09/21/22	09/27/22	
Toluene	ND	0.0250		1	09/21/22	09/27/22	
p-Xylene	ND	0.0250		1	09/21/22	09/27/22	
o,m-Xylene	ND	0.0500		1	09/21/22	09/27/22	
Total Xylenes	ND	0.0250		1	09/21/22	09/27/22	
Surrogate: Bromofluorobenzene		96.1 %	70-130		09/21/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		09/21/22	09/27/22	
Surrogate: Toluene-d8		105 %	70-130		09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/21/22	09/27/22	
Surrogate: Bromofluorobenzene		96.1 %	70-130		09/21/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		09/21/22	09/27/22	
Surrogate: Toluene-d8		105 %	70-130		09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0		1	09/23/22	09/24/22	
Oil Range Organics (C28-C36)	ND	50.0		1	09/23/22	09/24/22	
Surrogate: n-Nonane		95.8 %	50-200		09/23/22	09/24/22	

Surrogate: n-Nonane		95.8 %	50-200		09/23/22	09/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2239104
Chloride	ND	20.0		1	09/23/22	09/24/22	



<i>Acceived by OCD</i> . 12/2/2022 2.45.52 F M							ruge
	S	ample Da	ata				
Pima Environmental Services-Carlsbad	Project Name	: Ruth	20 #2				
PO Box 247	Project Number: 22093-0001						Reported:
Plains TX, 79355-0247	Project Manag	ger: Tom	Bynum				9/27/2022 4:18:28PM
		SW4					
		E209119-20					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2239070
Benzene	ND	0.0250		1	09/21/22	09/27/22	
Ethylbenzene	ND	0.0250		1	09/21/22	09/27/22	
Toluene	ND	0.0250		1	09/21/22	09/27/22	
p-Xylene	ND	0.0250		1	09/21/22	09/27/22	
o,m-Xylene	ND	0.0500		1	09/21/22	09/27/22	
Fotal Xylenes	ND	0.0250		1	09/21/22	09/27/22	
Surrogate: Bromofluorobenzene		96.3 %	70-130		09/21/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130		09/21/22	09/27/22	
Surrogate: Toluene-d8		104 %	70-130		09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2239070
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/21/22	09/27/22	
Surrogate: Bromofluorobenzene		96.3 %	70-130		09/21/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130		09/21/22	09/27/22	
Surrogate: Toluene-d8		104 %	70-130		09/21/22	09/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2239095
Diesel Range Organics (C10-C28)	ND	25.0		1	09/23/22	09/24/22	

09/23/22 Oil Range Organics (C28-C36) ND 50.0 1 09/24/22 100 % 50-200 09/23/22 09/24/22 Surrogate: n-Nonane Analyst: RAS Batch: 2239104 Anions by EPA 300.0/9056A mg/kg mg/kg ND 20.0 1 09/23/22 09/24/22 Chloride



	S	ample D	ata			
Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name Project Numb Project Manag	per: 2209	n 20 #2 93-0001 Bynum			Reported: 9/27/2022 4:18:28PM
	T Tojeet Wiana	-	Bynum			<i>JEN2022</i> 1.10.201 M
		BG1				
		E209119-21				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: IY	Batch: 2239067	
Benzene	ND	0.0250	1	09/21/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/22/22	
Toluene	ND	0.0250	1	09/21/22	09/22/22	
p-Xylene	ND	0.0250	1	09/21/22	09/22/22	
o,m-Xylene	ND	0.0500	1	09/21/22	09/22/22	
Fotal Xylenes	ND	0.0250	1	09/21/22	09/22/22	
Surrogate: 4-Bromochlorobenzene-PID		97.2 %	70-130	09/21/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2239067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/22	09/22/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.2 %	70-130	09/21/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2239076
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/22	09/23/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/22	09/23/22	
Surrogate: n-Nonane		97.5 %	50-200	09/21/22	09/23/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: RAS		Batch: 2239105
Chloride	68.6	20.0	1	09/23/22	09/24/22	



	S	ample D	ata			
Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Project Numb Project Manag	er: 2209	n 20 #2 93-0001 n Bynum			Reported: 9/27/2022 4:18:28PM
		BG2				
		E209119-22				
		Reporting				
Analyte	Result	Limit	Dilutior	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2239067
Benzene	ND	0.0250	1	09/21/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/21/22	09/22/22	
Toluene	ND	0.0250	1	09/21/22	09/22/22	
p-Xylene	ND	0.0250	1	09/21/22	09/22/22	
o,m-Xylene	ND	0.0500	1	09/21/22	09/22/22	
Fotal Xylenes	ND	0.0250	1	09/21/22	09/22/22	
Surrogate: 4-Bromochlorobenzene-PID		98.5 %	70-130	09/21/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2239067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/22	09/22/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.3 %	70-130	09/21/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2239076
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/22	09/23/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/22	09/23/22	
Surrogate: n-Nonane		97.5 %	50-200	09/21/22	09/23/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2239105
Chloride	61.3	20.0	1	09/23/22	09/24/22	



QC Summary Data

		QC SI		v					
Pima Environmental Services-Carlsbad		Project Name:		1th 20 #2					Reported:
PO Box 247		Project Number:	22	093-0001					
Plains TX, 79355-0247		Project Manager:	To	om Bynum					9/27/2022 4:18:28PM
	,	Volatile Organic	Compo	unds by EF	PA 8260B	;			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2239070-BLK1)							Prepared: 0	9/21/22 A	nalyzed: 09/26/22
Benzene	ND	0.0250					•		•
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Fotal Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			
LCS (2239070-BS1)							Prepared: 0	9/21/22 A	nalyzed: 09/26/22
Benzene	2.01	0.0250	2.50		80.6	70-130			
Ethylbenzene	2.09	0.0250	2.50		83.5	70-130			
Toluene	2.04	0.0250	2.50		81.7	70-130			
p-Xylene	1.96	0.0250	2.50		78.6	70-130			
o,m-Xylene	3.89	0.0500	5.00		77.7	70-130			
Total Xylenes	5.85	0.0250	7.50		78.0	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			
LCS Dup (2239070-BSD1)							Prepared: 0	9/21/22 A	nalyzed: 09/26/22
Benzene	2.22	0.0250	2.50		88.9	70-130	9.77	23	
Ethylbenzene	2.29	0.0250	2.50		91.7	70-130	9.36	27	
Toluene	2.24	0.0250	2.50		89.5	70-130	9.21	24	
p-Xylene	2.15	0.0250	2.50		85.9	70-130	8.90	27	
o,m-Xylene	4.26	0.0500	5.00		85.2	70-130	9.18	27	
Fotal Xylenes	6.41	0.0250	7.50		85.4	70-130	9.09	27	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
•									
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			



OC Summary Data

		QC SI	_						
Pima Environmental Services-Carlsbad		Project Name:		uth 20 #2					Reported:
PO Box 247		Project Number:		2093-0001					
Plains TX, 79355-0247		Project Manager:	Te	om Bynum					9/27/2022 4:18:28PM
		Analyst: IY							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2239067-BLK1)							Prepared: 0	9/21/22 A	nalyzed: 09/21/22
Benzene	ND	0.0250					-		
Ethylbenzene	ND	0.0250							
oluene	ND	0.0250							
-Xylene	ND	0.0250							
,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Gurrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			
LCS (2239067-BS1)							Prepared: 0	9/21/22 A	nalyzed: 09/21/22
Benzene	5.62	0.0250	5.00		112	70-130			
Ethylbenzene	4.60	0.0250	5.00		91.9	70-130			
Toluene	4.89	0.0250	5.00		97.8	70-130			
-Xylene	4.66	0.0250	5.00		93.3	70-130			
,m-Xylene	9.33	0.0500	10.0		93.3	70-130			
Total Xylenes	14.0	0.0250	15.0		93.3	70-130			
urrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			
LCS Dup (2239067-BSD1)							Prepared: 0	9/21/22 A	nalyzed: 09/21/22
Benzene	5.09	0.0250	5.00		102	70-130	10.0	20	
Ethylbenzene	4.17	0.0250	5.00		83.4	70-130	9.73	20	
Toluene	4.44	0.0250	5.00		88.7	70-130	9.73	20	
-Xylene	4.22	0.0250	5.00		84.4	70-130	10.0	20	
					010	70 120	0.50	20	
,m-Xylene	8.48 12.7	0.0500	10.0 15.0		84.8 84.6	70-130 70-130	9.58 9.74	20	



QC Summary Data

		QC D	uIIIII	ary Data	a				
Pima Environmental Services-Carlsbad PO Box 247		Project Name: Project Number:	2	Ruth 20 #2 22093-0001					Reported:
Plains TX, 79355-0247		Project Manager:		Гот Bynum					9/27/2022 4:18:28PM
	No	onhalogenated (Organics	s by EPA 801	15D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2239067-BLK1)							Prepared: 0	9/21/22	Analyzed: 09/21/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.75		8.00		84.3	70-130			
LCS (2239067-BS2)							Prepared: 0	9/21/22	Analyzed: 09/21/22
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.96		8.00		87.0	70-130			
LCS Dup (2239067-BSD2)							Prepared: 0	9/21/22	Analyzed: 09/21/22
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130	5.62	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.7	70-130			



QC Summary Data

		QC B	u I I I I I I I	ary Data	a				
Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247		Project Name: Project Number: Project Manager:	2	Ruth 20 #2 2093-0001 Tom Bynum					Reported: 9/27/2022 4:18:28PM
	No	onhalogenated O	rganics	by EPA 80	15D - G	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2239070-BLK1)							Prepared: 0	9/21/22 A	Analyzed: 09/26/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			
LCS (2239070-BS2)							Prepared: 0	9/21/22 A	Analyzed: 09/26/22
Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		90.9	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			
LCS Dup (2239070-BSD2)							Prepared: 0	9/21/22 A	Analyzed: 09/26/22
Gasoline Range Organics (C6-C10)	53.8	20.0	50.0		108	70-130	0.123	20	
Surrogate: Bromofluorobenzene	0.479		0.500		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			



QC Summary Data

Result mg/kg Limit mg/kg Level mg/kg Result mg/kg Result mg/kg Rec mg/kg Limit mg/kg Itemit mg/kg Limit mg/kg Itemit mg/kg Result mg/kg Rec mg/kg Limit mg/kg Itemit mg/kg Itemit mg/kg Result mg/kg Rec mg/kg Limit mg/kg Itemit mg/kg Itemit mg/kg Result mg/kg Rec mg/kg Limit mg/kg Result mg/kg Re			QC SI	umma	il y Data	a				
AnalyteResult mg/kgReporting Limit mg/kgSpike LevelSource Result mg/kgRec Result mg/kgRec KgRec Limit KgRPD Limit LimitRPD LimitBlank (2239076-BLK1)ND 50.025.0Prepared: 09/21/22Analyzed: 09/22/22Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)ND 50.050.0 83.1 $50-200$ LCS (2239076-BS1)Prepared: 09/21/22Analyzed: 09/22/22Prepared: 09/21/22Analyzed: 09/22/22Diesel Range Organics (C10-C28)261 43.325.0104 50.0 $38-132$ Prepared: 09/21/22Analyzed: 09/22/22Diesel Range Organics (C10-C28)261 43.325.0250104 50.0 $38-132$ Prepared: 09/21/22Analyzed: 09/22/22Diesel Range Organics (C10-C28)266 45.025.0250ND106 88.7 $38-132$ VVMatrix Spike Dup (2239076-MSD1)Source: E209079-03 50.0Prepared: 09/21/22Analyzed: 09/22/22NDNDMatrix Spike Dup (2239076-MSD1)Source: E209079-03 50.0Prepared: 09/21/22Analyzed: 09/22/22NDDiesel Range Organics (C10-C28)26425.0250ND106 88.7 $38-132$ VDiesel Range Organics (C10-C28)26425.0250ND106 88.7 $38-132$ VDiesel Range Organics (C10-C28)26425.0250ND106 88.7 $38-132$ VDiesel Range Organics (C10-C28)26425.0 <th>PO Box 247</th> <th></th> <th>Project Number:</th> <th>22</th> <th>2093-0001</th> <th></th> <th></th> <th></th> <th></th> <th></th>	PO Box 247		Project Number:	22	2093-0001					
Analyte Limitg Limitg Level Result Result<		Nonh	alogenated Orga	anics by	EPA 8015I) - DRO	/ORO			Analyst: JL
Diesel Range Organics (C10-C28) ND 25.0 0il Range Organics (C28-C36) ND 50.0 Surrogate: n-Nonane 41.6 50.0 83.1 50-200 LCS (2239076-BS1) Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 261 25.0 250 104 38-132 Surrogate: n-Nonane 43.3 50.0 86.6 50-200 Matrix Spike (2239076-MS1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 266 25.0 250 ND 106 38-132 Surrogate: n-Nonane 44.9 50.0 89.7 50-200 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 266 25.0 250 ND 106 38-132 Matrix Spike Dup (2239076-MSD1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 264 25.0 250 ND 106 38-132 0.787 20	Analyte		Ĺimit	Level	Result		Limits		Limit	Notes
Distribution (clob clob) ND 50.0 Oil Range Organics (C28-C36) ND 50.0 Surrogate: n-Nonane 41.6 50.0 83.1 50-200 LCS (2239076-BS1) Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 261 25.0 250 104 38-132 Surrogate: n-Nonane 43.3 50.0 86.6 50-200 Matrix Spike (2239076-MS1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 266 25.0 250 ND 106 38-132 Surrogate: n-Nonane 44.9 50.0 89.7 50-200 Matrix Spike Dup (2239076-MSD1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Matrix Spike Dup (2239076-MSD1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 264 25.0 250 ND 106 38-132 0.787 20	Blank (2239076-BLK1)							Prepared: 0	9/21/22 <i>A</i>	Analyzed: 09/22/22
Surrogate: n-Nonane 41.6 50.0 83.1 50-200 LCS (2239076-BS1) Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 261 25.0 250 104 38-132 Surrogate: n-Nonane 43.3 50.0 86.6 50-200 Matrix Spike (2239076-MS1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 266 25.0 250 ND 106 38-132 Surrogate: n-Nonane 44.9 50.0 89.7 50-200 Matrix Spike Dup (2239076-MSD1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 264 25.0 250 ND 106 38-132 Diesel Range Organics (C10-C28) 264 25.0 250 ND 106 38-132 0.787 20	Diesel Range Organics (C10-C28)	ND	25.0							
LCS (2239076-BS1) Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 261 25.0 250 104 38-132 Surrogate: n-Nonane 43.3 50.0 86.6 50-200 Matrix Spike (2239076-MS1) Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 266 25.0 250 ND 106 38-132 Surrogate: n-Nonane 44.9 50.0 89.7 50-200 V Matrix Spike Dup (2239076-MSD1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Matrix Spike Dup (2239076-MSD1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 264 25.0 250 ND 106 38-132 0.787 20	Oil Range Organics (C28-C36)	ND	50.0							
Diesel Range Organics (C10-C28) 261 25.0 250 104 38-132 Diesel Range Organics (C10-C28) 43.3 50.0 86.6 50-200 Matrix Spike (2239076-MS1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 266 25.0 250 ND 106 38-132 Surrogate: n-Nonane 44.9 50.0 89.7 50-200 Matrix Spike Dup (2239076-MSD1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 264 25.0 250 ND 106 38-132 0.787 20	Surrogate: n-Nonane	41.6		50.0		83.1	50-200			
Surrogate: n-Nonane 43.3 50.0 86.6 50-200 Matrix Spike (2239076-MS1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 266 25.0 250 ND 106 38-132 Matrix Spike Dup (2239076-MSD1) Frepared: 09/21/22 Analyzed: 09/22/22 Matrix Spike Dup (2239076-MSD1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 264 25.0 250 ND 106 38-132 0.787 20	LCS (2239076-BS1)							Prepared: 0	9/21/22 A	Analyzed: 09/22/22
Matrix Spike (2239076-MSD1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 266 25.0 250 ND 106 38-132 Surrogate: n-Nonane 44.9 50.0 89.7 50-200 Matrix Spike Dup (2239076-MSD1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 264 25.0 250 ND 106 38-132 0.787 20	Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Diesel Range Organics (C10-C28) 266 25.0 250 ND 106 38-132 Surrogate: n-Nonane 44.9 50.0 89.7 50-200 Matrix Spike Dup (2239076-MSD1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 264 25.0 250 ND 106 38-132 0.787 20	Surrogate: n-Nonane	43.3		50.0		86.6	50-200			
Surrogate: n-Nonane 44.9 50.0 89.7 50-200 Matrix Spike Dup (2239076-MSD1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 264 25.0 250 ND 106 38-132 0.787 20	Matrix Spike (2239076-MS1)				Source:	E209079-	03	Prepared: 0	9/21/22 A	Analyzed: 09/22/22
Matrix Spike Dup (2239076-MSD1) Source: E209079-03 Prepared: 09/21/22 Analyzed: 09/22/22 Diesel Range Organics (C10-C28) 264 25.0 250 ND 106 38-132 0.787 20	Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132			
Diesel Range Organics (C10-C28) 264 25.0 250 ND 106 38-132 0.787 20	Surrogate: n-Nonane	44.9		50.0		89.7	50-200			
	Matrix Spike Dup (2239076-MSD1)				Source:	E209079-	03	Prepared: 0	9/21/22 A	Analyzed: 09/22/22
Surrogate: n-Nonane 43.8 50.0 87.5 50-200	Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132	0.787	20	
	Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



QC Summary Data

		QC S		iry Data	a				
Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247		Project Name: Project Number: Project Manager:	22	uth 20 #2 2093-0001 om Bynum					Reported: 9/27/2022 4:18:28PM
	Nonh	alogenated Org	anics by	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2239095-BLK1)							Prepared: 0	9/23/22 A	analyzed: 09/23/22
Diesel Range Organics (C10-C28)	ND	25.0					1		
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			
LCS (2239095-BS1)							Prepared: 0	9/23/22 A	analyzed: 09/23/22
Diesel Range Organics (C10-C28)	249	25.0	250		99.6	38-132			
Surrogate: n-Nonane	49.5		50.0		99.0	50-200			
Matrix Spike (2239095-MS1)				Source:	E209119-	14	Prepared: 0	9/23/22 A	analyzed: 09/23/22
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	49.2		50.0		98.4	50-200			
Matrix Spike Dup (2239095-MSD1)				Source:	E209119-	14	Prepared: 0	9/23/22 A	analyzed: 09/23/22
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132	8.02	20	
Surrogate: n-Nonane	45.7		50.0		91.4	50-200			



QC Summary Data

		QU D	u 111111	ary Date							
Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	PO Box 247 Project Number: 22093-0001										
		Anions	by EPA	300.0/9056 A	1				Analyst: RAS		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes		
Blank (2239104-BLK1) Chloride	ND	20.0					Prepared: 0	9/23/22	Analyzed: 09/23/22		
LCS (2239104-BS1)							Prepared: 0	9/23/22	Analyzed: 09/23/22		
Chloride Matrix Spike (2239104-MS1)	247	20.0	250	Source:	98.9 E209119-0	90-110 1	Prepared: 0	9/23/22	Analyzed: 09/23/22		
Chloride Matrix Spike Dup (2239104-MSD1)	2880	200	250	2490 Source:	159 E209119-0	80-120	Prepared: 0	9/23/22	M2 Analyzed: 09/23/22		
Chloride	2990	200	250	2490	200	80-120	3.51	20	M2		



QC Summary Data

		QU D		ary Data					
Pima Environmental Services-Carlsbac PO Box 247 Plains TX, 79355-0247	I	Project Name: Project Number: Project Manager:	2	tuth 20 #2 2093-0001 fom Bynum		Reported: 9/27/2022 4:18:28PM			
		Anions l	oy EPA	300.0/9056 <i>A</i>	\				Analyst: RAS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2239105-BLK1)							Prepared: 0	9/23/22	Analyzed: 09/24/22
Chloride	ND	20.0							
LCS (2239105-BS1)							Prepared: 0	9/23/22	Analyzed: 09/24/22
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2239105-MS1)				Source:	E209118-()1	Prepared: 0	9/23/22	Analyzed: 09/24/22
Chloride	271	20.0	250	25.1	98.6	80-120			
Matrix Spike Dup (2239105-MSD1)				Source:	E209118-()1	Prepared: 0	9/23/22	Analyzed: 09/24/22
Chloride	272	20.0	250	25.1	98.8	80-120	0.179	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



	201111101		
Pima Environmental Services-Carlsbad	Project Name:	Ruth 20 #2	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/27/22 16:18

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Proi	iect	Information
	CCL	mormation

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Chain of Custody

roject Information	1				Ch	ain of Custody	7												Page	of	3
Client: Pima Envir Project: KUHA 2 Project Manager: Address: 5614 N.	D#2 Tom By	num	xes	Ad	Bill To ention: ARMSHDNG { dress: y, State, Zip	Energy	1 S.S. 175 B	wo# 209	ها 1]0		onh lob N 220 Analys	umbe 93-	500 Methor	1D	2D	TA 3D	Stan		EPA P CWA	rogram SDWA RCRA	
ity, State, Zip Ho hone: 580-748- mail: tom@pim leport due by: Time Date	1613	n		En	one: nail: ma Project # ၂၀-၂	Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		DC NM	XLX			im co X	State UT AZ		
Sampled Sampled	Matrix	No. of Containers	Sample ID	. 1		Number	D%O	GRO/	BTEX	<u>Š</u>	Meta	2 <u>5</u>		BGDOC	BGDOC		_		Remarks	i 	-
3:00-1/15/22	2		51	<u>\</u> 2`		2						+	+	X							-
3:05 3:10			<u>S.1 7</u> 8.2	<u> </u>		3						+	+	┼┼							
3:15			S.2 ·	 2'		4								\prod							1
3:2D			<u>S.3</u>	1		5															
3:25			9.3	2'		4								\prod	-						
3:30			<u>S4</u>	<u> </u>		7				_											_
3:35		$\left \right $	12.51	2'		8							_	$\left \right $							
3:40 3:45			<u>9.5</u> 9.5	2'		10				_			+	$\left\{ \right\}$			\vdash				-
dditional Instruc	tions:	if n	13.0	6	Pima			I						<u> </u>	L				<u> </u>		-
field sampler), attest to te or time of collection		and authent	icity of this san	nple. I am aware	that tampering with or intentionally mis	labelling the sampl	e locat	on, Z			Samples packed	requiring in ice at a	thermal n avg tem	preserva p above	ition m 0 but le	ist be re iss than (ceived on 6 °C on sul	ice the day bsequent da	they are samp iys.	pled or receive	M
elinquished by: (Signa	anden	Date	110/22	12:30 13:41	Received () (signature) Received by: (Signature)	Date J-J Date	1ð	Time	};{{ : 4;	$\cdot L$	Rece	ived o	n ice:	Q P	ab U D1 N	se On I	ily T				
telihquished by: (Signa	ature)	Date		Time	Received by: (Signature)	Date	<u>-</u>	Time	-		AVG	Temp	°C	<u>16</u> 7							
	carded 30 d	lays after re	sults are rep	orted unless ot	her arrangements are made. Hazarn rith this COC. The liability of the labo		l be re	turnec	to cli	p - p ent or for or	oly/pla dispos	ed of a	g - amb the clic	ent exp	pense.	. The I					
						ge 37 of 40					3	ļ	91	n	V		r (b	e	C	h

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Chain of Custody

roject Information Chain of Custody												Page _	<u>2 of 3</u>
ent: Pima Environmental Services oject: KINHO 2D#2 oject Manager: Tom Bynum Idress: 5614 N. Lovington Hwy. tv. State, Zip Hobbs. NM. 88240 oone: 580-748-1613 mail: tom@pimaoil.com	Bill To Attention: Annatrong Energy Address: City, State, Zip Phone: Email:	-			Ana	209: alysis at	ber 3-000 nd Meth	od	2D	TA 3D	Standa X	rd CW/	RCRA
Time Date Matrix Containers Sample ID	Pima Project # \Q - L	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260 Metals 6010	Chloride 300.0		BGDOC NM	BGDOC TX		X	Rema	ks
:50 9/15/22 S I S.6 1								X					
:50 9/15/22 S I S.6 1'	12							1					
1:00 S.71	13												
05	' 14												
10 S.8	15												
:15 8.82	14												
:20 5001	17												
25 Sw 2													
:30 Sw 3	19												
1:35 SW4	20												
dditional Instructions: if ND+ F	sill to Pima												
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample date or time of collection is considered fraud and may be grounds for legal action.			ы, २								elved on ice t i °C on subseq		mpled or received
Singuished by: (Signature) Date Tin Singuished by: (Signature) Singuished by: (Signature) Date Date Tin Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date	e Received by (Signature) Bare - 30 Received by: (Signature) At Date - 4 16 7 3 4 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	D0)	Time Time	3' (X : 48		ceive	l on ice			ise On 1	ly 13		
elinguishad by:(IS)gnature) Date OTin	Received by: (Signature) Date		Time		A	vg Ter	np °C	4					
	Conta d unless other arrangements are made. Hazardous samples aboratory with this COC. The liability of the laboratory is limite	vill be ret	turned	l to clier	- poly, at or dis	/plastic sposed o	;, ag - an of at the c				eport for t	e analysis of	the above

Project Information

Client: Pima Environmental Services **Bill To** TAT EPA Program Lab Use Only Attention: ARMSTONA FREEDU 100 Number 22093:000 1D 2D Project: R11+0 2D#7 3D Standard CWA **SDWA** Project Manager: Tom Bynum Address: Ň Address: 5614 N. Lovington Hwy. RCRA Analysis and Method City, State, Zip Salks (C) City, State, Zip Hobbs, NM. 88240 Phone: State Phone: 580-748-1613 Email: DRO/ORO by 8015 GRO/DRO by 8015 Email: tom@pimaoil.com NMI CO UT AZ TX Chloride 300.0 9-1 BTEX by 8021 M Pima Project # VOC by 8260 Metals 6010 Ĕ Report due by: BGDOC 3GDOC Lab Time Date No. of Remarks Sample ID Matrix Containe Sampled Sampled Number 2 /15/27 \cap X 22 北下 Additional Instructions: L Bill to '\MA Samples requiring thermal preservation must be received on ice the day they are sampled or received I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering will or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Renavidez packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. date or time of collection is considered fraud and may be grounds for legal action. Lab Use Only Date Time Relinguished by: (Signature) Received on ice: by Signature) Date 9 Date Date Time Relinguished by (Signature) Time **Received by: (Signature)** AVG Temp °C 4 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Sample Matrix: S - Soil, Sd - Solid, Sg - Słudge, A - Aqueous, O - Other

Chain of Custody

 $\mathsf{Page} \underline{\mathsf{S}}_{\mathsf{of}} \underline{\mathsf{S}}$

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Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

C envirotech

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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

nstructions: Please take note of any NO checkmarks. f we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.									
Client:	Pima Environmental Services-Carlsbad Date Received:		09/21/22	10:45	Work Order ID:	E209119			
Phone:	(575) 631-6977 Da	te Logged In:	09/21/22	08:58	Logged In By:	Caitlin Christian			
Email:	tom@pimaoil.com Du	ie Date:	09/27/22	17:00 (4 day TAT)					
<u>Chain o</u>	of Custody (COC)								
1. Does	the sample ID match the COC?		Yes						
2. Does	the number of samples per sampling site location match	the COC	Yes						
3. Were	samples dropped off by client or carrier?		Yes	Carrier: UPS					
4. Was t	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes						
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution			
Sample	<u>Turn Around Time (TAT)</u>								
6. Did tl	he COC indicate standard TAT, or Expedited TAT?		Yes						
Sample	Cooler								
7. Was a	a sample cooler received?		Yes						
8. If yes	, was cooler received in good condition?		Yes						
9. Was t	he sample(s) received intact, i.e., not broken?		Yes						
10. Wer	e custody/security seals present?		No						
11. If ye	s, were custody/security seals intact?		NA						
12. Was 1	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are rec		Yes						
	minutes of sampling								
13. If no	o visible ice, record the temperature. Actual sample ten	nperature: <u>4°</u>	<u>'C</u>						
<u>Sample</u>	<u>Container</u>								
	aqueous VOC samples present?		No						
	VOC samples collected in VOA Vials?		NA						
	e head space less than 6-8 mm (pea sized or less)?		NA						
	a trip blank (TB) included for VOC analyses?		NA						
	non-VOC samples collected in the correct containers?		Yes						
19. Is the	e appropriate volume/weight or number of sample containers	collected?	Yes						
Field La									
	e field sample labels filled out with the minimum information	ation:	**						
	Sample ID? Date/Time Collected?		Yes						
	Collectors name?		Yes No						
	Preservation		110						
-	s the COC or field labels indicate the samples were prese	rved?	No						
	sample(s) correctly preserved?		NA						
	b filteration required and/or requested for dissolved meta	ls?	No						
	nase Sample Matrix								
	s the sample have more than one phase, i.e., multiphase?		No						
	es, does the COC specify which phase(s) is to be analyzed	1?	NA						
	tract Laboratory		1 1/ 1						
	samples required to get sent to a subcontract laboratory?		No						
	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab: na					
	Instruction		- 1/ 1	Subcontract Lab. Ila					



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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

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CONDITIONS

Operator:		OGRID:
	ARMSTRONG ENERGY CORP	1092
	P.O. Box 1973	Action Number:
	Roswell, NM 88202	163443
		Action Type:
		[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Approved.	1/5/2023

Action 163443

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CONDITIONS