

Pima Environmental Services, LLC 1601 N. Turner Ste 500 Hobbs, NM 88240 575-964-7740

April 30th, 2021

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

Bureau of Land Management Mr. Jim Amos 620 East Green Street Carlsbad, NM 88220

Re: Remediation Activities & Closure Report

Emerald PWU 20 #001H API No. 30-015-38338

GPS: Latitude 32.6525154 Longitude -104.1045456

UL "D," Sec. 20, T19S, R29E

**Eddy County, NM** 

NMOCD Ref. No. NMLB1113050834 (2RP-779)

Pima Environmental Services, LLC (Pima) was contracted by Devon Energy Production Company (Devon) to perform remediation activities and submit a closure report for a crude oil/produced water mixed release that occurred at the Emerald PWU 20 #001H (Emerald) on May 4<sup>th</sup>, 2011. The initial C-141 (Appendix C) was submitted on May 10<sup>th</sup>, 2011 and was assigned Incident ID nMLB1113050834 (2RP-779) by the New Mexico Oil Conservation Division (NMOCD).

#### **Site Characterization**

The Emerald is located approximately eighteen (18) miles northeast of Carlsbad, NM. This spill site is in Unit D, Section 20, Township 19S, Range 29E, Latitude 32.6525154, Longitude -104.1045456, Eddy County, NM. Figure 1 references a location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation Eolian and piedmont deposits (Holocene to middle Pleistocene)-interlayed eolian sands and piedmont-slope deposits (QEP). According to the United States Department of Agriculture Natural Resources Conservation Service soil survey, the soil in this area comprises Simona-Bippus complex, 0 to 5 percent slopes (Appendix B). The drainage courses in this area are well-drained. There is a high potential for karst geology in the Emerald area (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 150 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the closest groundwater is between 51-100 BGS. See Appendix A for referenced water surveys.

	Table 1	NMAC and Closure C	riteria 19.15.29		
Depth to Groundwater		Cons	tituent & Limits		
(Appendix A)	Chlorides	Total TPH	BTEX	Benzene	
150'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
High Karst	600 mg/kg	100 mg/kg	100 mg/kg	50 mg/kg	10mg/kg
If the release occurred we less than 50 feet per Rule		g areas, the responsible	party would treat the re	lease as if the gro	undwater was
	Water Is	sues		Yes	No
Within 300 feet of any co		х			
Within <u>200</u> feet of any la water mark		х			
Within 300 feet from an	occupied permanent resi	dence, school, hospital,	institution, or church		х
Within <u>500</u> feet of a sprin households for domestic		freshwater well used by	less than five		х
Within 1000 feet of any	freshwater well or spring				X
Within incorporated mur	nicipal boundaries or with	nin a defined municipal	freshwater well field		х
Within 300 feet of a wetl	ands				X
Within the area overlying	g a subsurface mine				X
Within an unstable area (	(Karst)			X	
Within a 100-year flood	olain				X

Reference Figure 2 for a Topographic Map.

#### **Release Information**

2RP-779: On May 4, 2011, during the flowback process, the overnight watchman fell asleep and awoke to a frac tank overflowing. The released fluids were calculated to be approximately 23 barrels (bbls) of oil and 3 bbls of produced water. A vac truck was dispatched and was able to recover 22 bbls of fluids.

#### Site Assessment and Soil Sampling Results

On July 7, 2020, Pima Environmental mobilized to the site to conduct a site assessment and obtain soil samples. Upon first look, there was no visual staining from any of the releases. We followed previously outlined diagrams and descriptions from C-141's to track the spills' vicinity and sampled in various random locations. The laboratory results of this sampling event can be found in the following data table. Pima submitted a work plan that would address all open RP's and was approved by the NMOCD.

7-7-20 Soil Sample Results

Sample Dat 7-7-20	0		NM Approved Laboratory Results											
Sample ID	Depth B		Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	ci mg/kg						
5-1	0-6	ND	ND	ND	ND	ND	ND	360						
5-1	1	ND	ND	ND	ND	ND	ND	160						
5-2	0-6	ND	ND	ND	11000	8300	19300	3800						
5-3	0-6	ND	ND	ND	11	ND:	11	17000						
2.0	0-6	ND	ND	ND	ND	ND	ND	570						
S-4	1	ND	ND	ND	ND	ND:	ND	210						
20	0-6	ND-	ND	ND	ND.	ND	ND	ND						
5-5	1	ND	ND	ND	ND	ND:	ND	54						
5-6	0-6	ND	ND	ND	ND	ND -	ND	1200						
5-7	0-6	ND	ND	ND	ND	ND	ND	ND						
3-7	1	ND	ND	ND	ND	ND	ND	ND-						
5-8	0-6	ND	ND	ND	ND	ND.	ND	2300						
3-8	1	ND	ND	ND	ND	ND	ND	200						
5-9	0-6	ND	ND	ND	20000	12000	32000	4100						
2-3	1	ND	ND	ND	240	190	430	430						
5-10	0-6	ND	ND	ND	2700	3200	5900	2600						
5-11	0-6	ND	ND	ND	3500	3600	7100	250						
5-11	1	ND	ND	ND	74	90	164	460						

ND- Analyte Not Detected

#### **Remediation Activities**

Pima submitted a work plan to address this incident, as well as all other open incidents associated with this site, that was ultimately approved and followed. Pima removed the contaminated areas from the releases and our sampling event that exceeded the NMAC Closure Criteria. We remediated through excavation and removal using mechanical equipment and hand tools. The area in the vicinity of S-2 and S-3 was excavated to a depth of 2-feet BGS. As we started excavating in the vicinity of S-6, S-8, S-9, and S-10, we extended our sampling to define where our excavation would require cleanup horizontally. This area's excavation extended further horizontally and vertically than initially expected. We ended up excavating vertically to a depth of 2-feet and 3-feet BGS respectively. The vicinity of S-11 was excavated to a depth of 2-feet BGS and ended up becoming part of the larger area. Five-point composite bottom and sidewall composite samples were obtained to ensure that the contamination's vertical and horizontal extents had been removed. Each composite sample was representative of no more than 200 square feet. Laboratory analysis includes Method SM-4500 for chlorides and Method 8015 for TPH, including MRO, DRO, and GRO. See Figure 5 for Confirmation Sample Map.

11-19-20 Extended	Soil Sam	ple Results
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	NMOCE	Table 1 C	losure Crite	ria 19.15.	29 NMAC (	HIGH KARS	TAREA <50')						
Sample Date	•	NM Approved Laboratory Results											
Sample (D	Depth (BG5)	BTEX mg/kg		Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	ci mg/kg				
	1	ND	ND	ND	1350	272	1622	560					
5-15	2	ND	ND	ND	204	53.2	257.2	688					
-	3	ND	ND	ND	50.8	ND	50.8	464					
	1	ND	ND	ND	13.2	ND	13.2	320					
5-16	2	ND -	ND	ND	ND	- ND	ND	272					
-	3	ND	ND .	ND	70.5	15.8	85.3	176					
7 - 1	1	ND	ND	ND	ND:	ND	ND	48					
5-17	2	ND	ND	ND	ND:	ND	ND	32					
	3	ND	NDN	ND	ND	ND	ND	32					
	1	ND	ND	ND	ND	ND	ND	16					
5-18	2	ND	ND	NDN	ND	ND	ND	32					
	3	ND	ND	ND	ND	ND	ND	32					
	1	1.11	ND	121	4640	814	5575	368					
S-19	2	ND	ND	12	904	151	1067	512					
- 44	3	ND	ND	ND	418	80.9	498.9	544					
Later 1	1	ND	ND	35.6	5850	1120	7005.6	96					
5-20	2	ND	ND	ND	83.9	18.2	102.1	128					
	3	ND	ND-	ND	290 -	55.9	345.9	176					
5-21	1	ND	ND-	ND	123	35.6	158.6	80					
H. H	1.	ND	ND	ND	44.4	10.6	55	1620					
5-22	2	ND	ND	ND	22	ND	22	48					
1.4.1	3	ND	ND	ND	11.1	ND	11.1	32					

ND-Analyte Not Detected

On November 25<sup>th</sup>, 2020, Pima sent an environmental tech to the site to obtain confirmation sidewall and bottom samples. Samples were field screened using method S300 for chlorides and using a Tiger Select to measure for VOC. The results of this sampling event can be found in the following data table.

11-25-20 Confirmation Soil Sample Results

NMO	CD Table :	L Closure	Criteria 19.	15.29 NM	AC (HIGH KA	RSTAREA	<50')			
Sample Date 11-25	-20	NM Approved Laboratory Results								
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg		
S-1 W. BOTTOM	2	ND	ND	ND	ND	ND	ND	64		
5-1 W. SIDEWALL COMP	2	ND -	ND	ND	ND-	ND	ND	64		
5-5 S. BOTTOM	2	ND -	ND	ND	ND-	ND-	ND	96		
S-5 S. SIDEWALL COMP	2	ND	ND	ND	ND	ND-	ND	80		
S-6 S. SIDEWALL COMP	- 2	ND:	ND	ND	ND	ND:	ND	112		
5-6 S. BOTTOM	2	ND.	ND	ND	ND	ND	ND	112		
S-13 E. SIDEWALL COMP	2	ND	ND	ND	ND	ND	ND	64		
5-13 E. BOTTOM	2	ND	ND	ND	ND	ND	ND	80		
S-12 N. BOTTOM	2	ND	ND	ND	ND	ND	ND	96		
5-12 N. SIDEWALL COMP	2	ND	ND	ND	ND	ND	ND	64		
S-11 W. BOTTOM	2	ND	ND	ND	ND-	ND-	ND	80		
S-11 W. SIDEWALL COMP	2	ND	ND	ND	20.9	23.1	44	64		
5-14 S. SIDEWALL COMP	2	ND	ND	ND	ND	ND.	ND:	54		
S-14 S. BOTTOM	2	ND	ND	ND	ND	ND	ND .	80		
	1	ND	ND	ND	ND	ND	ND	112		
5-23	2	ND	ND	ND	ND	ND	ND	112		
	3	ND	ND	ND	ND	ND	ND	112		
	1	ND	ND	ND	ND	ND	ND	800		
5-24	2	ND	ND	ND	ND	ND	ND	112		
	3	ND -	ND	ND	ND	ND	ND	96		
	1	ND	ND	ND	ND	ND	ND	272		
5-25	2	ND -	ND	ND	ND	ND -	ND	80		
	3	ND	- ND	ND	ND	ND-	ND	112		

ND- Analyte Not Detected

On December 10<sup>th</sup>, 2020, Pima returned to the site to obtain further confirmation samples. The results of this sampling event can be found in the following data table.

12-10-20 Confirmation Soil Sample Results

NMO	CD Table	I Closure	Criteria 19.	15.29 NM	AC (HIGH K	ARST AREA	<50'I		
Sample Date 12-10	-20	NM Approved Laboratory Results							
Sample (D	Depth (BG5)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg	
5-6 S. BOTTOM	2	ND	ND	ND	ND.	ND	ND	96	
S-6 S. SIDEWALL COMP	- 2	ND.	ND	ND	ND	ND	ND	80	
S-9 E. SIDEWALL COMP	2	ND.	ND	ND	ND	ND	ND	80	
S-9 E. BOTTOM	2	ND	ND -	ND-	ND	ND	ND	80	
S-22 N. SIDEWALL	2	ND	ND-	ND	ND	ND	ND	96	
S-22 N. BOTTOM	2	ND -	ND-	ND	ND	ND	ND	112	
S-24 N. SIDEWALL COMP	2	ND	ND	ND	ND	ND	ND	80	
5-24 N. BOTTOM	2	ND	ND	ND	ND	ND	ND	64	
S-25 E. SIDEWALL COMP	2	ND	ND	ND	ND.	ND	ND	48	
5-25 E. BOTTOM	2	ND	ND	ND	ND	ND	ND	48	
5-26 S. SIDEWALL COMP	3	ND	ND -	ND-	ND	ND:	ND	80	
S-26 S. BOTTOM	3	ND-	ND	ND	ND	. ND	ND	54	

ND- Analyte Not Detected

On May 3<sup>rd</sup>, 2021, Pima returned to the site to complete the collection of confirmation samples. The results of this sampling event can be found in the following data table.

5-3-21 Confirmation Soil Sample Results

	J J Z I C	OIIIII	nation 5	on Sum	pro ree.	Juito			
NMOC	D Table 1 Clo	sure Crit	eria 19.15.2	9 NMAC (	HIGH KAR	ST AREA	50')		
	1	Devon En	ergy - Emera	ld PWU 20	#1H				
Sample Date 5-3-21		NM Approved Laboratory Results							
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg	
S2-2'	2	ND	ND	ND	ND	ND	ND	ND	
S3-2 <sup>'</sup>	2	ND	ND	ND	ND	ND	ND	16	
S4-2'	2	ND	ND	ND	ND	ND	ND	ND	
S7-2 <sup>1</sup>	2	ND	ND	ND	ND	ND	ND	ND	
S8-2'	2	ND	ND	ND	ND	ND	ND	ND	
S10-2'	2	ND	ND	ND	ND	ND	ND	ND	

ND - Analyte Not Detected

Complete Laboratory Reports are attached in Appendix E.

#### **Closure Request**

After careful review, Pima requests that incident NMLB1113050834 (2RP-776) be closed. Devon has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Chris Jones at 575-964-7740 or chris@pimaoil.com.

Respectfully,

Chris Jones

**Environmental Professional** 

Pima Environmental Services, LLC

#### **Attachments**

#### Figures:

- 1- Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Location Map
- 5- Confirmation Sample Map

#### Appendices:

Appendix A – Referenced Water Surveys

Appendix B – Soil Survey and FEMA Flood Map

Appendix C - C-141s

Appendix D – Photographic Documentation

 $Appendix \ E-Laboratory \ Reports$ 



# Figures:

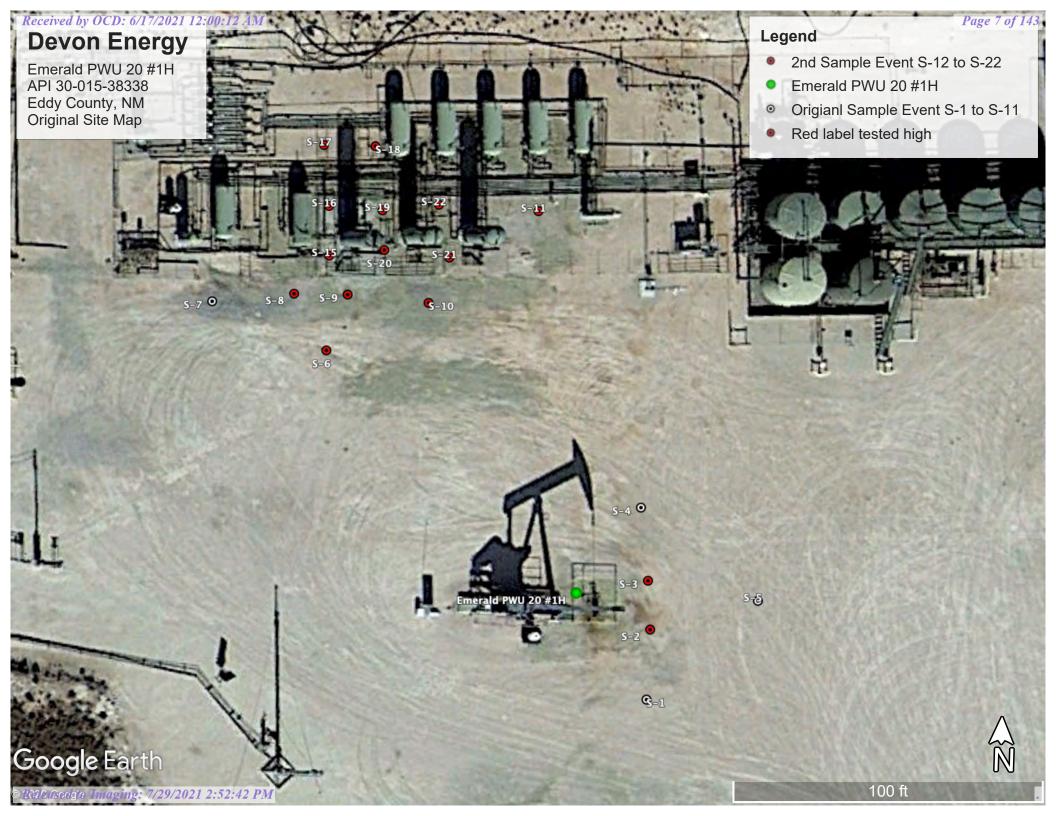
1-Site Map

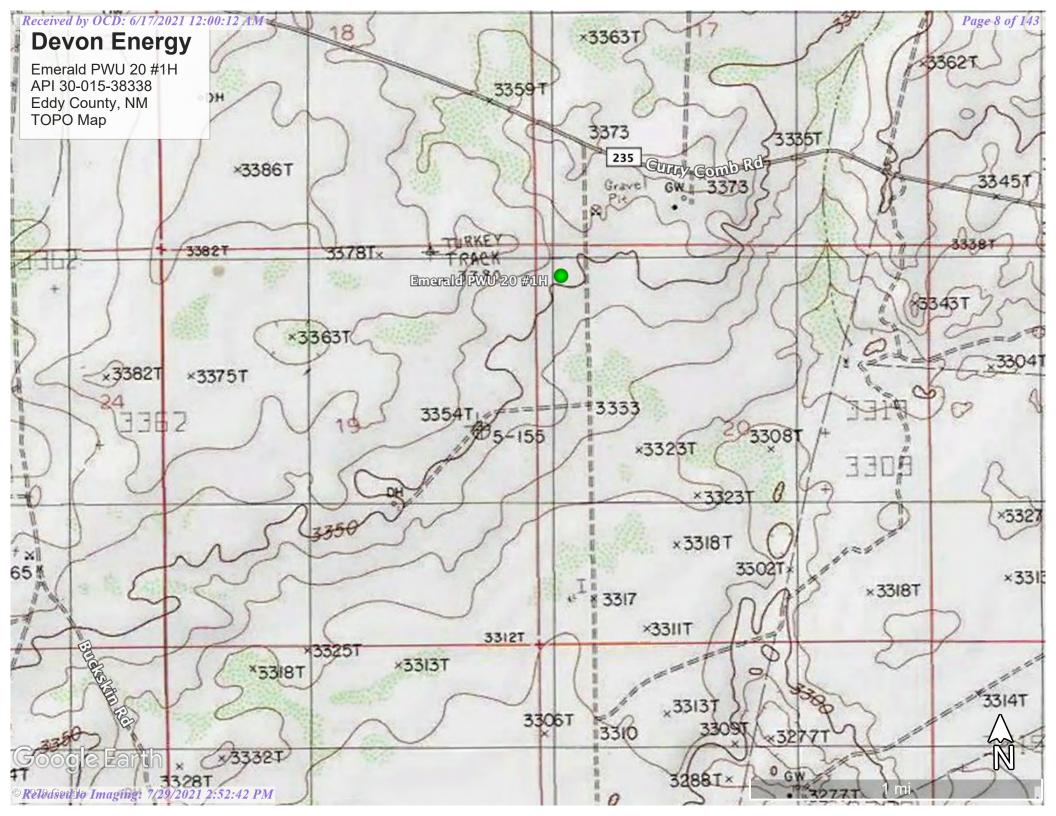
2-Topo Map

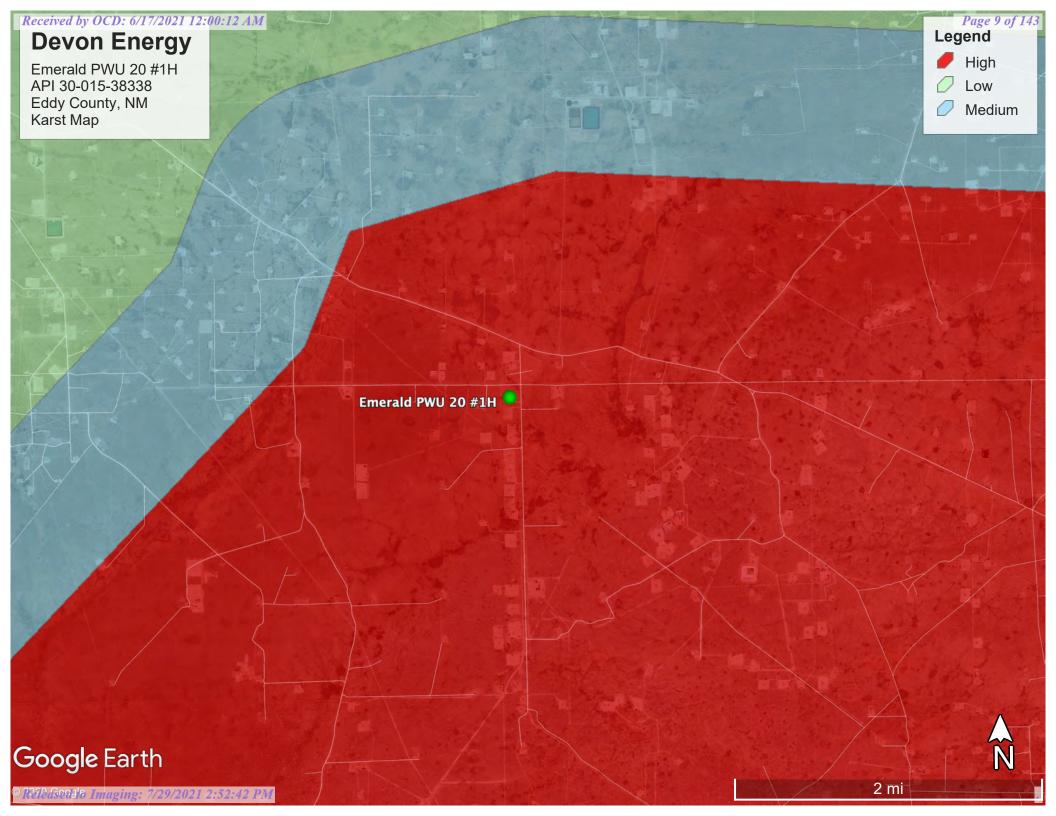
3-Karst Map

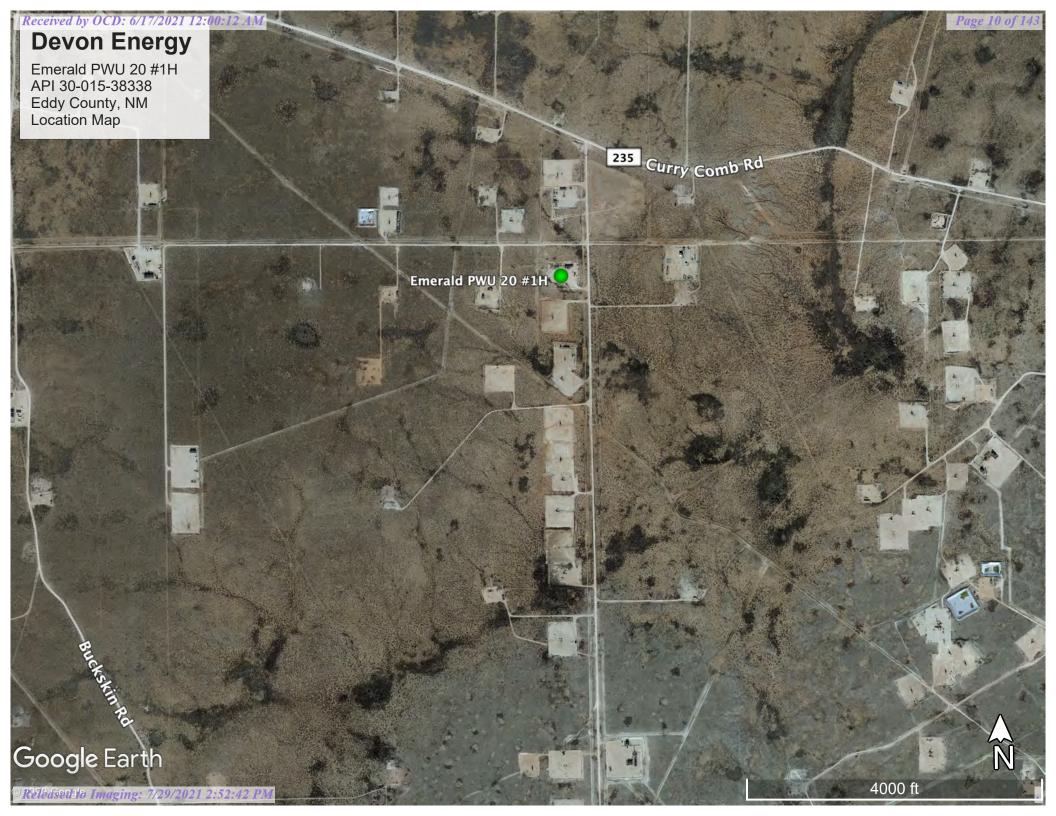
4-Location Map

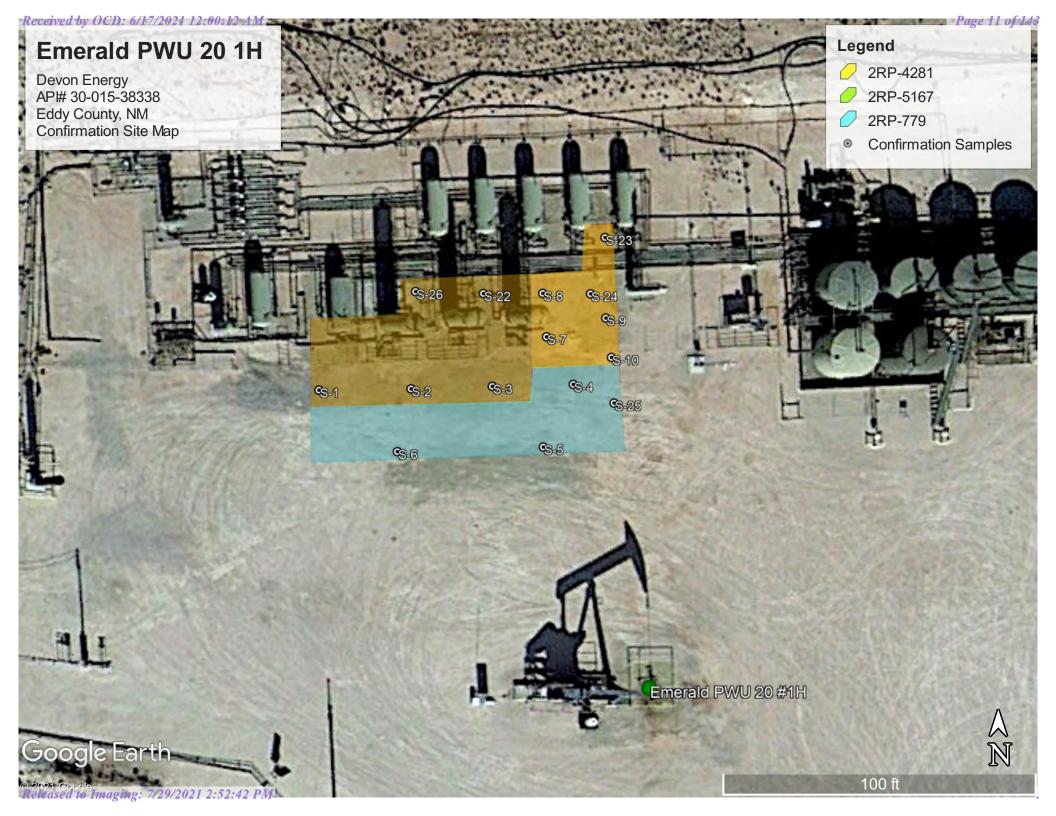
5-Confirmation Site Map













# Appendix A

Water Surveys:

OSE

**USGS** 

Surface Water Map



# New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

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

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

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

(In feet)

		POD													
		Sub-		Q	Q	Q								W	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDo	epthWellDep	thWater Co	lumn
<u>CP 00646</u>		CP	ED	1	1	4	07	19S	29E	583155	3615551	2565	199	150	49
<u>CP 01231 POD1</u>		CP	ED	4	4	2	36	19S	28E	582311	3609372	4102	300	75	225
<u>CP 01858 POD1</u>		CP	ED	4	1	4	01	19S	28E	581872	3617163	4556	55		
<u>CP 00681</u>		CP	ED	1	1	3	34	19S	29E	587230	3609127*	5151			
<u>CP 00830 POD1</u>		CP	LE		2	1	04	20S	29E	586118	3608193*	5373	120		
<u>CP 00741</u>		CP	ED	1	3	2	34	19S	29E	588030	3609533*	5413	230	60	170
<u>CP 00626 POD1</u>		CP	ED	2	3	1	03	19S	29E	587360	3617575	5592	286	247	39
<u>CP 00743 POD1</u>		CP	ED		2	4	05	20S	29E	585319	3607382*	5894	160		

Average Depth to Water:

133 feet

Minimum Depth:

60 feet

Maximum Depth:

247 feet

Record Count: 8

UTMNAD83 Radius Search (in meters):

**Easting (X):** 583977 **Northing (Y):** 3613121.615 **Radius:** 6000

\*UTM location was derived from PLSS - see Help

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

4/30/21 7:07 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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**USGS Water Resources** 

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

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\* IMPORTANT: Next Generation Station Page

### Search Results -- 1 sites found

site\_no list =

• 323900104052901

### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

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

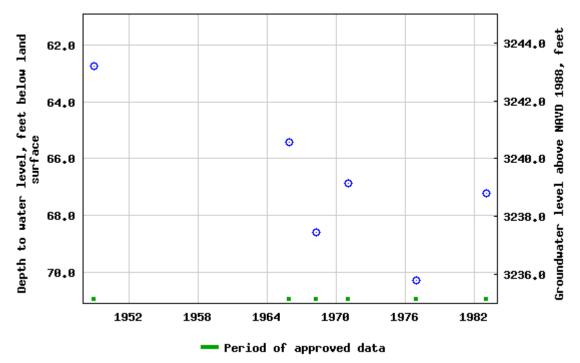
Available data for this site	Groundwater: F	field measurements	<b>∨</b> GO
Eddy County, New Mexico			
Hydrologic Unit Code 1306	0011		
Latitude 32°39'00", Longi	tude 104°05'	29" NAD27	
Land-surface elevation 3,3	06 feet above	e NAVD88	
This well is completed in th	ne Other aqui	ifers (N9999OTH	IER) national aquifer.
This well is completed in th	ne Rustler For	rmation (312RSI	_R) local aquifer.

**Output formats** 

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

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



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

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

Page Last Modified: 2021-04-30 09:12:04 EDT

0.66 0.6 nadww01





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**USGS Water Resources** 

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

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### Search Results -- 1 sites found

site\_no list =

• 323845104075601

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 323845104075601 19S.28E.24.32233

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°38'45", Longitude 104°07'56" NAD27

Land-surface elevation 3,352 feet above NAVD88

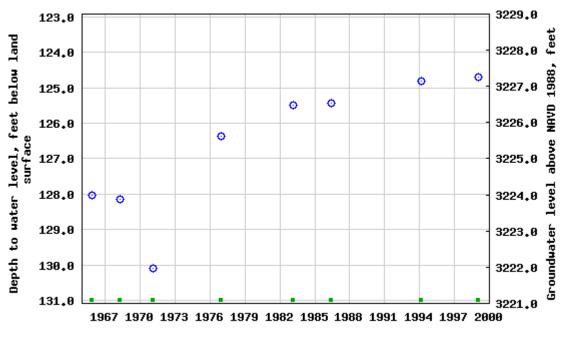
This well is completed in the Other aquifers (N99990THER) national aquifer.

This well is completed in the Other additions (19999901 HER) hational addition This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output format

Output formats
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>

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Title: Groundwater for USA: Water Levels

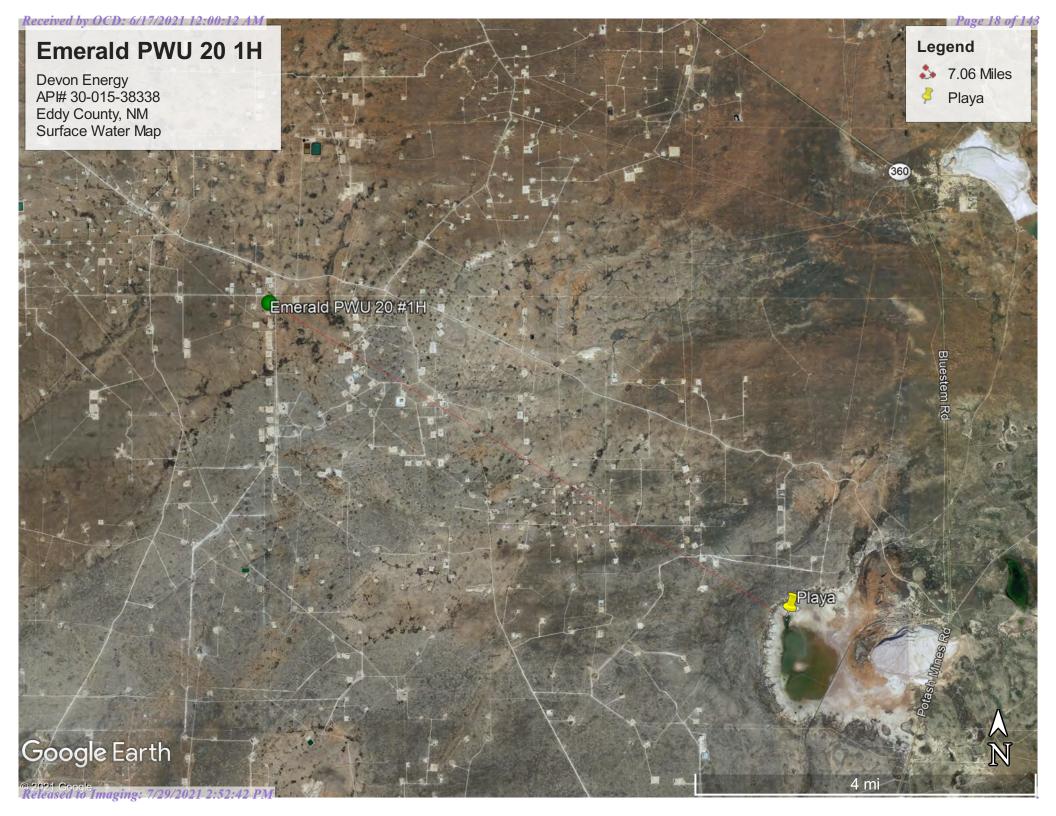
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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

Page Last Modified: 2021-04-30 09:12:46 EDT

0.66 0.59 nadww01







# Appendix B

Soil Survey & Geological Data FEMA Flood Map

## **Eddy Area, New Mexico**

### SM—Simona-Bippus complex, 0 to 5 percent slopes

#### **Map Unit Setting**

National map unit symbol: 1w5x Elevation: 1,800 to 5,000 feet

Mean annual precipitation: 8 to 24 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

#### **Map Unit Composition**

Simona and similar soils: 55 percent Bippus and similar soils: 30 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Simona**

#### Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Rise

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

Parent material: Mixed alluvium and/or eolian sands

#### Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam

H2 - 19 to 23 inches: indurated

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Natural drainage class: Well drained

Runoff class: Very high

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

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

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0

to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

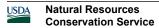
Available water storage in profile: Very low (about 2.1 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D



Ecological site: Shallow Sandy (R042XC002NM)

Hydric soil rating: No

#### **Description of Bippus**

#### Setting

Landform: Flood plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Mixed alluvium

#### **Typical profile**

H1 - 0 to 37 inches: silty clay loam H2 - 37 to 60 inches: clay loam

#### **Properties and qualities**

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Very low

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

Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: Occasional Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0

to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Moderate (about 8.7 inches)

#### Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: Bottomland (R042XC017NM)

Hydric soil rating: No

#### **Minor Components**

#### Simona

Percent of map unit: 8 percent

Ecological site: Shallow Sandy (R042XC002NM)

Hydric soil rating: No

#### **Bippus**

Percent of map unit: 7 percent

Ecological site: Bottomland (R042XC017NM)

Map Unit Description: Simona-Bippus complex, 0 to 5 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

# **Data Source Information**

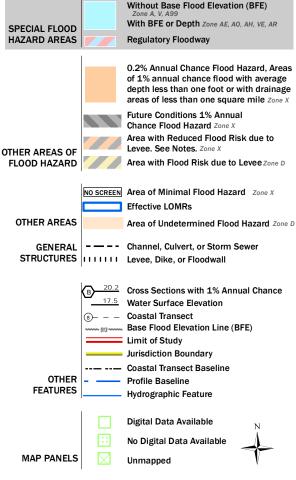
Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 15, Sep 15, 2019

# Received by OCD: 6/17/2021 12:00:12 AM National Flood Hazard Layer FIRMette





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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/10/2020 at 1:40:02 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





# Appendix C

C-141's:

Initial

Final

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

and the same of the same section was				2:	anta F	e, NM 8/3	05	*****	•	and the second s		
			Rele	ease Notific	catio	n and Co	rrective A	ction	V-			
MLB/IL	30.5083	34				OPERA'	ГOR		🚹 Initi	al Report	☐ Fina	al Report
		Devon Ene	ergy	413	7	Contact Re	y White, Fo	remar				· · ·
				P.O. Box 25			No. <b>575-513-</b>	1741				
Facility Nar	ne <b>Eme</b>	rald PWU	20 #1H	30-015-383	338	Facility Typ	e					
Surface Ow	ner			Mineral (	Owner				Lease 1	No.		
				LOC	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County		
D	20	1 <u>9</u> S	29E	400		FNL	330	F'	WL		Eddy	
			Latitude <sub>.</sub>	***************************************		Longitud	le					
				NA]	<b>TURE</b>	OF REL	EASE					
Type of Rele						Volume of				Recovered		
Oil & Prod		ater					Oil - 3 bbls - Hour of Occurrence			Hour of Dis	bbls - PW	
		back hand	fell asle	ep during hi	s shift		- 6:22 am			1 - 06-2		
resulting i	n a frac	tank to ove	erflow a	nd release 26							^	
		d water on	the gro	und.								
Was Immedi	ate Notice		1 Yes □	] No □ Not R	eanired	If YES, To	· <sup>Whom?</sup> ·atcher, NMC	CD		/		
By Whom?						Date and H	·				10	(T)
Roy Whit	e, Forer	man					ւսո 1 - 10:100 ar	n		/W		\$/
Was a Water		ched?				If YES, Vo	olume Impacting	the Wate	rcourse.	/4/	YE	
			] Yes ⊠				•			A. 1/2		
		npacted, Descr										
Describe Cau	ise of Prob	lem and Remo	edial Actio	on Taken.* □	\n ove	rnight flow	back hand for	ell asle	ep duri	ng his∕s(h	kffr∕resultir	ng in a
							er on the gro s at 6'5" at 5:					
							er who fell a					
contract c	ompany	. 22 bbl of	the oil a	nd produced			ered resulting				.p.o,ou	
		and Cleanup			ıck Ba	moved ee	ntaminated so	-!! and	-onloo	al/	!!	,
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							knowledge and u					
							nd perform correct					
should their	or the envi	have failed to	adequately	investigate and	remedia	te contaminat	arked as "Final R ion that pose a thr	eport of	oes not rei ound wate	neve the ope r. surface w	erator of Habi rater, human b	แเบ าealth
or the enviro	nment. In a	addition, NMO	OCD accep				e the operator of					
federal, state	or local la	ws and/or reg	ulations.				OIL CON	CEDV	ATION	DIME	ONI	
Signature:	MI	jkol Hor	CHEV				OIL CON	SERV.	AHON	DIVISIO	<u>JN</u>	
	7.18	1000 1101	7001			Approved by	District Supervis	94 / r	<i> </i>	West-		
Printed Name	e: Mvk	ol Horner					Signed By	W11/4	K) KNA	Wille-	-	
				-			-//					
Title:	Fiel	d Tech 1				Approval Da	te: 5/10/70/	1 I	Expiration	Date:		
· E mail Add		ol hornor	adva ac	m		Conditions o	f Annroval					
E-mail Addre	ess: myk	ol.horner@	guvii.co				ion per OCD R	ules &		Attached	i 🗌	
Date:		Phone:	575-748-	0160	Gu		BMIT REMED		ı			
	tional She	ets If Necess		w w			OT LATER THA			201	1 77	1
						61	10/2011			dKt	1-77	7
							,				•	

	Page 26 of 14	43
Incident ID	NMLB1113050834	
District RP	2RP-779	
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?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🔀 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗵 No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	X Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☒ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Fach of the following items must be included in the report	

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

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 6/17/2021 12:00:12 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 27 of 1	43
Incident ID	NMLB1113050834	
District RP	2RP-779	
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name: Tom Bynum	Title: EHS Consultant					
Signature: Tom Bynum	Date: _10/21/2020					
Signature: Tom Bynum  email: tom.bynum@dvn.com	Telephone: <u>575-748-2663</u>					
OCD O. I						
OCD Only						
Received by:	Date:					

	Page 28 of 1	43
Incident ID	NMLB1113050834	
District RP	2RP-779	
Facility ID		
Application ID		

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be	pe included in the plan.
<ul> <li>✓ Detailed description of proposed remediation technique</li> <li>✓ Scaled sitemap with GPS coordinates showing delineation poin</li> <li>✓ Estimated volume of material to be remediated</li> <li>✓ Closure criteria is to Table 1 specifications subject to 19.15.29</li> <li>✓ Proposed schedule for remediation (note if remediation plan times)</li> </ul>	.12(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be co	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	h, the environment, or groundwater.
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of
Printed Name: Tom Bynum	Title: EHS Consultant
Signature: Tom Bynum  email: tom.bynum@dvn.com	Date: 10/21/2020
email: tom.bynum@dvn.com	Telephone: <u>575-748-2663</u>
OCD Only	
Received by:	
Approved	f Approval
Signature:	<u>Date:</u>

e of New Mexico

Incident ID	NMLB1113050834
District RP	2RP-779
Facility ID	
Application ID	

# Closure

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

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

	•
★ A scaled site and sampling diagram as described in 19.15	5.29.11 NMAC
Note that Photographs of the remediated site prior to backfill or photographs be notified 2 days prior to liner inspection)	hotos of the liner integrity if applicable (Note: appropriate OCD District office
■ Laboratory analyses of final sampling (Note: appropriate)	ODC District office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
and regulations all operators are required to report and/or file of may endanger public health or the environment. The acceptant should their operations have failed to adequately investigate are human health or the environment. In addition, OCD acceptant compliance with any other federal, state, or local laws and/or restore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to	-
Printed Name: Tom Dynam	Title: EHS Consultant
Signature: /om Bynum	Date:10-21-20
Signature:	Telephone: <u>575-748-2663</u>
OCD Only	
Received by:	Date:
	party of liability should their operations have failed to adequately investigate and face water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



# Appendix D

Photographic Documentation

# **Excavation Photos**

# **Tank Battery Area**

















In Front of Wellhead for 2RP-5377

Completed & Backfilled















# Appendix E

**Laboratory Reports** 

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109



July 16, 2020

Chris Jones

Pima Environmental Services LLC 1601 N. Turner Ste 500

Hobbs, NM 88240

TEL: (575) 631-6977

FAX:

RE: Emerald PWU 20 1H OrderNo.: 2007408

### Dear Chris Jones:

Hall Environmental Analysis Laboratory received 18 sample(s) on 7/9/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 2007408

Date Reported: 7/16/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-001

Matrix: SOIL

**Collection Date:** 7/7/2020 3:30:00 PM **Received Date:** 7/9/2020 9:18:00 AM

Client Sample ID: S1, 0"-6"

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	360	60	mg/Kg	20	7/11/2020 4:41:31 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/11/2020 9:45:27 PM	53614
Surr: BFB	93.5	70-130	%Rec	1	7/11/2020 9:45:27 PM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/11/2020 10:07:05 AM	53629
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/11/2020 10:07:05 AM	53629
Surr: DNOP	97.5	55.1-146	%Rec	1	7/11/2020 10:07:05 AM	53629
<b>EPA METHOD 8260B: VOLATILES SHORT LIS</b>	ST .				Analyst	DJF
Benzene	ND	0.023	mg/Kg	1	7/11/2020 9:45:27 PM	53614
Toluene	ND	0.046	mg/Kg	1	7/11/2020 9:45:27 PM	53614
Ethylbenzene	ND	0.046	mg/Kg	1	7/11/2020 9:45:27 PM	53614
Xylenes, Total	ND	0.092	mg/Kg	1	7/11/2020 9:45:27 PM	53614
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	7/11/2020 9:45:27 PM	53614
Surr: 4-Bromofluorobenzene	94.6	70-130	%Rec	1	7/11/2020 9:45:27 PM	53614
Surr: Dibromofluoromethane	112	70-130	%Rec	1	7/11/2020 9:45:27 PM	53614
Surr: Toluene-d8	101	70-130	%Rec	1	7/11/2020 9:45:27 PM	53614

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 23

Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-002

Client Sample ID: S1, 1'

**Collection Date:** 7/7/2020 3:35:00 PM

**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	160	60	mg/Kg	20	7/11/2020 4:53:56 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/11/2020 10:42:56 PM	53614
Surr: BFB	94.9	70-130	%Rec	1	7/11/2020 10:42:56 PM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/11/2020 11:20:31 AM	53629
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/11/2020 11:20:31 AM	53629
Surr: DNOP	56.7	55.1-146	%Rec	1	7/11/2020 11:20:31 AM	53629
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	7/11/2020 10:42:56 PM	53614
Toluene	ND	0.048	mg/Kg	1	7/11/2020 10:42:56 PM	53614
Ethylbenzene	ND	0.048	mg/Kg	1	7/11/2020 10:42:56 PM	53614
Xylenes, Total	ND	0.097	mg/Kg	1	7/11/2020 10:42:56 PM	53614
Surr: 1,2-Dichloroethane-d4	109	70-130	%Rec	1	7/11/2020 10:42:56 PM	53614
Surr: 4-Bromofluorobenzene	96.4	70-130	%Rec	1	7/11/2020 10:42:56 PM	53614
Surr: Dibromofluoromethane	115	70-130	%Rec	1	7/11/2020 10:42:56 PM	53614
Surr: Toluene-d8	104	70-130	%Rec	1	7/11/2020 10:42:56 PM	53614

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 23

Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

Emerald PWU 20 1H **Project:** 

2007408-003 Lab ID:

Client Sample ID: S2, 0"-6"

**Collection Date:** 7/7/2020 3:40:00 PM

Received Date: 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	3800	150		mg/Kg	50	7/13/2020 3:54:10 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	DJF
Gasoline Range Organics (GRO)	ND	23	D	mg/Kg	5	7/12/2020 2:04:49 AM	53614
Surr: BFB	93.1	70-130	D	%Rec	5	7/12/2020 2:04:49 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	11000	490		mg/Kg	50	7/11/2020 11:45:11 AM	53629
Motor Oil Range Organics (MRO)	8300	2500		mg/Kg	50	7/11/2020 11:45:11 AM	53629
Surr: DNOP	0	55.1-146	S	%Rec	50	7/11/2020 11:45:11 AM	53629
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst	: DJF
Benzene	ND	0.12	D	mg/Kg	5	7/12/2020 2:04:49 AM	53614
Toluene	ND	0.23	D	mg/Kg	5	7/12/2020 2:04:49 AM	53614
Ethylbenzene	ND	0.23	D	mg/Kg	5	7/12/2020 2:04:49 AM	53614
Xylenes, Total	ND	0.46	D	mg/Kg	5	7/12/2020 2:04:49 AM	53614
Surr: 1,2-Dichloroethane-d4	105	70-130	D	%Rec	5	7/12/2020 2:04:49 AM	53614
Surr: 4-Bromofluorobenzene	93.7	70-130	D	%Rec	5	7/12/2020 2:04:49 AM	53614
Surr: Dibromofluoromethane	109	70-130	D	%Rec	5	7/12/2020 2:04:49 AM	53614
Surr: Toluene-d8	102	70-130	D	%Rec	5	7/12/2020 2:04:49 AM	53614

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 3 of 23

Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-004

Matrix: SOIL

**Collection Date:** 7/7/2020 3:45:00 PM **Received Date:** 7/9/2020 9:18:00 AM

Client Sample ID: S3, 0"-6"

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	17000	600		mg/Kg	200	7/13/2020 4:06:35 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE	<b></b>					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 2:33:19 AM	53614
Surr: BFB	97.3	70-130		%Rec	1	7/12/2020 2:33:19 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	11	9.8		mg/Kg	1	7/11/2020 12:09:59 PM	53629
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/11/2020 12:09:59 PM	53629
Surr: DNOP	49.1	55.1-146	S	%Rec	1	7/11/2020 12:09:59 PM	53629
<b>EPA METHOD 8260B: VOLATILES SHORT LIS</b>	Т					Analyst	DJF
Benzene	ND	0.024		mg/Kg	1	7/12/2020 2:33:19 AM	53614
Toluene	ND	0.049		mg/Kg	1	7/12/2020 2:33:19 AM	53614
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 2:33:19 AM	53614
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2020 2:33:19 AM	53614
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	7/12/2020 2:33:19 AM	53614
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	7/12/2020 2:33:19 AM	53614
Surr: Dibromofluoromethane	104	70-130		%Rec	1	7/12/2020 2:33:19 AM	53614
Surr: Toluene-d8	103	70-130		%Rec	1	7/12/2020 2:33:19 AM	53614

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-005

Matrix: SOIL

Collection Date: 7/7/2020 3:50:00 PM Received Date: 7/9/2020 9:18:00 AM

Client Sample ID: S4, 0"-6"

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: CJS
Chloride	570	60		mg/Kg	20	7/11/2020 5:31:09 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/12/2020 3:01:50 AM	53614
Surr: BFB	96.1	70-130		%Rec	1	7/12/2020 3:01:50 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/11/2020 12:34:49 PM	53629
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/11/2020 12:34:49 PM	53629
Surr: DNOP	33.0	55.1-146	S	%Rec	1	7/11/2020 12:34:49 PM	53629
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst	: DJF
Benzene	ND	0.024		mg/Kg	1	7/12/2020 3:01:50 AM	53614
Toluene	ND	0.048		mg/Kg	1	7/12/2020 3:01:50 AM	53614
Ethylbenzene	ND	0.048		mg/Kg	1	7/12/2020 3:01:50 AM	53614
Xylenes, Total	ND	0.096		mg/Kg	1	7/12/2020 3:01:50 AM	53614
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	1	7/12/2020 3:01:50 AM	53614
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	7/12/2020 3:01:50 AM	53614
Surr: Dibromofluoromethane	112	70-130		%Rec	1	7/12/2020 3:01:50 AM	53614
Surr: Toluene-d8	102	70-130		%Rec	1	7/12/2020 3:01:50 AM	53614

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-006

Client Sample ID: S4, 1'

**Collection Date:** 7/7/2020 3:55:00 PM

Received Date: 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: CJS
Chloride	210	60		mg/Kg	20	7/11/2020 5:43:33 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2020 3:30:36 AM	53614
Surr: BFB	96.4	70-130		%Rec	1	7/12/2020 3:30:36 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/11/2020 12:59:50 PM	53629
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/11/2020 12:59:50 PM	53629
Surr: DNOP	44.3	55.1-146	S	%Rec	1	7/11/2020 12:59:50 PM	53629
EPA METHOD 8260B: VOLATILES SHORT LIST	-					Analyst	: DJF
Benzene	ND	0.025		mg/Kg	1	7/12/2020 3:30:36 AM	53614
Toluene	ND	0.050		mg/Kg	1	7/12/2020 3:30:36 AM	53614
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2020 3:30:36 AM	53614
Xylenes, Total	ND	0.10		mg/Kg	1	7/12/2020 3:30:36 AM	53614
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	7/12/2020 3:30:36 AM	53614
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	7/12/2020 3:30:36 AM	53614
Surr: Dibromofluoromethane	108	70-130		%Rec	1	7/12/2020 3:30:36 AM	53614
Surr: Toluene-d8	104	70-130		%Rec	1	7/12/2020 3:30:36 AM	53614

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

Emerald PWU 20 1H **Project:** 

2007408-007 Lab ID:

Collection Date: 7/7/2020 4:00:00 PM

Client Sample ID: S5, 0"-6"

Received Date: 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	ND	60		mg/Kg	20	7/11/2020 5:55:57 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/12/2020 3:59:11 AM	53614
Surr: BFB	94.2	70-130		%Rec	1	7/12/2020 3:59:11 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/11/2020 1:24:53 PM	53629
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/11/2020 1:24:53 PM	53629
Surr: DNOP	29.7	55.1-146	S	%Rec	1	7/11/2020 1:24:53 PM	53629
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst	: DJF
Benzene	ND	0.024		mg/Kg	1	7/12/2020 3:59:11 AM	53614
Toluene	ND	0.048		mg/Kg	1	7/12/2020 3:59:11 AM	53614
Ethylbenzene	ND	0.048		mg/Kg	1	7/12/2020 3:59:11 AM	53614
Xylenes, Total	ND	0.095		mg/Kg	1	7/12/2020 3:59:11 AM	53614
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	7/12/2020 3:59:11 AM	53614
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	7/12/2020 3:59:11 AM	53614
Surr: Dibromofluoromethane	109	70-130		%Rec	1	7/12/2020 3:59:11 AM	53614
Surr: Toluene-d8	102	70-130		%Rec	1	7/12/2020 3:59:11 AM	53614

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-008

Client Sample ID: S5, 1'

**Collection Date:** 7/7/2020 4:05:00 PM

**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	64	60		mg/Kg	20	7/11/2020 6:08:22 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 4:27:38 AM	53614
Surr: BFB	96.4	70-130		%Rec	1	7/12/2020 4:27:38 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/11/2020 1:49:46 PM	53629
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/11/2020 1:49:46 PM	53629
Surr: DNOP	47.2	55.1-146	S	%Rec	1	7/11/2020 1:49:46 PM	53629
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst	DJF
Benzene	ND	0.025		mg/Kg	1	7/12/2020 4:27:38 AM	53614
Toluene	ND	0.049		mg/Kg	1	7/12/2020 4:27:38 AM	53614
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 4:27:38 AM	53614
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 4:27:38 AM	53614
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	7/12/2020 4:27:38 AM	53614
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	7/12/2020 4:27:38 AM	53614
Surr: Dibromofluoromethane	110	70-130		%Rec	1	7/12/2020 4:27:38 AM	53614
Surr: Toluene-d8	105	70-130		%Rec	1	7/12/2020 4:27:38 AM	53614

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

Emerald PWU 20 1H **Project:** 

Client Sample ID: S6, 0"-6"

Collection Date: 7/7/2020 4:10:00 PM

2007408-009 Received Date: 7/9/2020 9:18:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: CJS
Chloride	1200	60		mg/Kg	20	7/11/2020 6:45:34 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 4:56:06 AM	53614
Surr: BFB	94.2	70-130		%Rec	1	7/12/2020 4:56:06 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/11/2020 2:14:39 PM	53629
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/11/2020 2:14:39 PM	53629
Surr: DNOP	30.9	55.1-146	S	%Rec	1	7/11/2020 2:14:39 PM	53629
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	: DJF
Benzene	ND	0.025		mg/Kg	1	7/12/2020 4:56:06 AM	53614
Toluene	ND	0.049		mg/Kg	1	7/12/2020 4:56:06 AM	53614
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 4:56:06 AM	53614
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2020 4:56:06 AM	53614
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	7/12/2020 4:56:06 AM	53614
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	7/12/2020 4:56:06 AM	53614
Surr: Dibromofluoromethane	104	70-130		%Rec	1	7/12/2020 4:56:06 AM	53614
Surr: Toluene-d8	102	70-130		%Rec	1	7/12/2020 4:56:06 AM	53614

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

Emerald PWU 20 1H **Project:** 

Client Sample ID: S7, 0"-6"

Collection Date: 7/7/2020 4:15:00 PM

2007408-010 Received Date: 7/9/2020 9:18:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: CJS
Chloride	ND	60		mg/Kg	20	7/11/2020 6:57:58 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/12/2020 5:25:03 AM	53614
Surr: BFB	92.3	70-130		%Rec	1	7/12/2020 5:25:03 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/11/2020 2:39:45 PM	53629
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/11/2020 2:39:45 PM	53629
Surr: DNOP	44.4	55.1-146	S	%Rec	1	7/11/2020 2:39:45 PM	53629
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>	-					Analyst	: DJF
Benzene	ND	0.024		mg/Kg	1	7/12/2020 5:25:03 AM	53614
Toluene	ND	0.047		mg/Kg	1	7/12/2020 5:25:03 AM	53614
Ethylbenzene	ND	0.047		mg/Kg	1	7/12/2020 5:25:03 AM	53614
Xylenes, Total	ND	0.095		mg/Kg	1	7/12/2020 5:25:03 AM	53614
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	7/12/2020 5:25:03 AM	53614
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	7/12/2020 5:25:03 AM	53614
Surr: Dibromofluoromethane	115	70-130		%Rec	1	7/12/2020 5:25:03 AM	53614
Surr: Toluene-d8	99.0	70-130		%Rec	1	7/12/2020 5:25:03 AM	53614

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-011

Client Sample ID: S7, 1'

**Collection Date:** 7/7/2020 4:20:00 PM

**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	7/11/2020 7:10:22 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2020 5:53:47 AM	53614
Surr: BFB	94.8	70-130	%Rec	1	7/12/2020 5:53:47 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/11/2020 3:04:50 PM	53629
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/11/2020 3:04:50 PM	53629
Surr: DNOP	71.9	55.1-146	%Rec	1	7/11/2020 3:04:50 PM	53629
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	7/12/2020 5:53:47 AM	53614
Toluene	ND	0.049	mg/Kg	1	7/12/2020 5:53:47 AM	53614
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2020 5:53:47 AM	53614
Xylenes, Total	ND	0.099	mg/Kg	1	7/12/2020 5:53:47 AM	53614
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	7/12/2020 5:53:47 AM	53614
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	7/12/2020 5:53:47 AM	53614
Surr: Dibromofluoromethane	114	70-130	%Rec	1	7/12/2020 5:53:47 AM	53614
Surr: Toluene-d8	101	70-130	%Rec	1	7/12/2020 5:53:47 AM	53614

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-012

Client Sample ID: S8, 0"-6"

**Collection Date:** 7/7/2020 4:25:00 PM

**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	2300	60	mg/Kg	20	7/11/2020 7:22:47 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/12/2020 6:22:15 AM	53614
Surr: BFB	95.8	70-130	%Rec	1	7/12/2020 6:22:15 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/11/2020 3:54:54 PM	53629
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/11/2020 3:54:54 PM	53629
Surr: DNOP	57.8	55.1-146	%Rec	1	7/11/2020 3:54:54 PM	53629
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	7/12/2020 6:22:15 AM	53614
Toluene	ND	0.048	mg/Kg	1	7/12/2020 6:22:15 AM	53614
Ethylbenzene	ND	0.048	mg/Kg	1	7/12/2020 6:22:15 AM	53614
Xylenes, Total	ND	0.096	mg/Kg	1	7/12/2020 6:22:15 AM	53614
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	7/12/2020 6:22:15 AM	53614
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	7/12/2020 6:22:15 AM	53614
Surr: Dibromofluoromethane	105	70-130	%Rec	1	7/12/2020 6:22:15 AM	53614
Surr: Toluene-d8	106	70-130	%Rec	1	7/12/2020 6:22:15 AM	53614

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-013

Client Sample ID: S8, 1'

**Collection Date:** 7/7/2020 4:30:00 PM

**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	200	61	mg/Kg	20	7/11/2020 7:35:12 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2020 6:50:45 AM	53614
Surr: BFB	95.3	70-130	%Rec	1	7/12/2020 6:50:45 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/11/2020 4:19:36 PM	53629
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/11/2020 4:19:36 PM	53629
Surr: DNOP	86.4	55.1-146	%Rec	1	7/11/2020 4:19:36 PM	53629
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>	-				Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	7/12/2020 6:50:45 AM	53614
Toluene	ND	0.049	mg/Kg	1	7/12/2020 6:50:45 AM	53614
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2020 6:50:45 AM	53614
Xylenes, Total	ND	0.098	mg/Kg	1	7/12/2020 6:50:45 AM	53614
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	7/12/2020 6:50:45 AM	53614
Surr: 4-Bromofluorobenzene	93.1	70-130	%Rec	1	7/12/2020 6:50:45 AM	53614
Surr: Dibromofluoromethane	106	70-130	%Rec	1	7/12/2020 6:50:45 AM	53614
Surr: Toluene-d8	104	70-130	%Rec	1	7/12/2020 6:50:45 AM	53614

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-014

Matrix: SOIL

**Collection Date:** 7/7/2020 4:35:00 PM **Received Date:** 7/9/2020 9:18:00 AM

Client Sample ID: S9, 0"-6"

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	4100	150		mg/Kg	50	7/13/2020 4:18:59 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	: DJF
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	7/12/2020 7:19:14 AM	53614
Surr: BFB	96.4	70-130	D	%Rec	5	7/12/2020 7:19:14 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	: BRM
Diesel Range Organics (DRO)	20000	490		mg/Kg	50	7/11/2020 4:44:23 PM	53629
Motor Oil Range Organics (MRO)	12000	2500		mg/Kg	50	7/11/2020 4:44:23 PM	53629
Surr: DNOP	0	55.1-146	S	%Rec	50	7/11/2020 4:44:23 PM	53629
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst	: DJF
Benzene	ND	0.12	D	mg/Kg	5	7/12/2020 7:19:14 AM	53614
Toluene	ND	0.25	D	mg/Kg	5	7/12/2020 7:19:14 AM	53614
Ethylbenzene	ND	0.25	D	mg/Kg	5	7/12/2020 7:19:14 AM	53614
Xylenes, Total	ND	0.49	D	mg/Kg	5	7/12/2020 7:19:14 AM	53614
Surr: 1,2-Dichloroethane-d4	104	70-130	D	%Rec	5	7/12/2020 7:19:14 AM	53614
Surr: 4-Bromofluorobenzene	73.9	70-130	D	%Rec	5	7/12/2020 7:19:14 AM	53614
Surr: Dibromofluoromethane	106	70-130	D	%Rec	5	7/12/2020 7:19:14 AM	53614
Surr: Toluene-d8	104	70-130	D	%Rec	5	7/12/2020 7:19:14 AM	53614

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-015

Client Sample ID: S9,1'

**Collection Date:** 7/7/2020 4:40:00 PM

**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	430	59	mg/Kg	20	7/11/2020 8:00:00 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE	!				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2020 7:47:47 AM	53614
Surr: BFB	92.4	70-130	%Rec	1	7/12/2020 7:47:47 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	240	9.8	mg/Kg	1	7/11/2020 5:09:07 PM	53629
Motor Oil Range Organics (MRO)	190	49	mg/Kg	1	7/11/2020 5:09:07 PM	53629
Surr: DNOP	112	55.1-146	%Rec	1	7/11/2020 5:09:07 PM	53629
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	7/12/2020 7:47:47 AM	53614
Toluene	ND	0.049	mg/Kg	1	7/12/2020 7:47:47 AM	53614
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2020 7:47:47 AM	53614
Xylenes, Total	ND	0.098	mg/Kg	1	7/12/2020 7:47:47 AM	53614
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	7/12/2020 7:47:47 AM	53614
Surr: 4-Bromofluorobenzene	92.1	70-130	%Rec	1	7/12/2020 7:47:47 AM	53614
Surr: Dibromofluoromethane	106	70-130	%Rec	1	7/12/2020 7:47:47 AM	53614
Surr: Toluene-d8	101	70-130	%Rec	1	7/12/2020 7:47:47 AM	53614

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-016

Matrix: SOIL

**Collection Date:** 7/7/2020 4:45:00 PM **Received Date:** 7/9/2020 9:18:00 AM

Client Sample ID: S10, 0"-6"

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	2600	150		mg/Kg	50	7/13/2020 4:31:23 PM	53651
EPA METHOD 8015D MOD: GASOLINE RANGE	<b>.</b>					Analyst	DJF
Gasoline Range Organics (GRO)	ND	23	D	mg/Kg	5	7/12/2020 8:16:16 AM	53614
Surr: BFB	95.2	70-130	D	%Rec	5	7/12/2020 8:16:16 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	2700	190		mg/Kg	20	7/11/2020 5:34:21 PM	53629
Motor Oil Range Organics (MRO)	3200	930		mg/Kg	20	7/11/2020 5:34:21 PM	53629
Surr: DNOP	0	55.1-146	S	%Rec	20	7/11/2020 5:34:21 PM	53629
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ					Analyst	DJF
Benzene	ND	0.12	D	mg/Kg	5	7/12/2020 8:16:16 AM	53614
Toluene	ND	0.23	D	mg/Kg	5	7/12/2020 8:16:16 AM	53614
Ethylbenzene	ND	0.23	D	mg/Kg	5	7/12/2020 8:16:16 AM	53614
Xylenes, Total	ND	0.47	D	mg/Kg	5	7/12/2020 8:16:16 AM	53614
Surr: 1,2-Dichloroethane-d4	107	70-130	D	%Rec	5	7/12/2020 8:16:16 AM	53614
Surr: 4-Bromofluorobenzene	95.7	70-130	D	%Rec	5	7/12/2020 8:16:16 AM	53614
Surr: Dibromofluoromethane	113	70-130	D	%Rec	5	7/12/2020 8:16:16 AM	53614
Surr: Toluene-d8	103	70-130	D	%Rec	5	7/12/2020 8:16:16 AM	53614

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-017

Matrix: SOIL

**Collection Date:** 7/7/2020 4:50:00 PM **Received Date:** 7/9/2020 9:18:00 AM

Client Sample ID: S11, 0"-6"

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	250	60		mg/Kg	20	7/13/2020 11:46:02 AM	53665
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	DJF
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	7/12/2020 8:44:46 AM	53614
Surr: BFB	95.7	70-130	D	%Rec	5	7/12/2020 8:44:46 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	3500	98		mg/Kg	10	7/11/2020 5:59:39 PM	53629
Motor Oil Range Organics (MRO)	3600	490		mg/Kg	10	7/11/2020 5:59:39 PM	53629
Surr: DNOP	0	55.1-146	S	%Rec	10	7/11/2020 5:59:39 PM	53629
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst	DJF
Benzene	ND	0.12	D	mg/Kg	5	7/12/2020 8:44:46 AM	53614
Toluene	ND	0.24	D	mg/Kg	5	7/12/2020 8:44:46 AM	53614
Ethylbenzene	ND	0.24	D	mg/Kg	5	7/12/2020 8:44:46 AM	53614
Xylenes, Total	ND	0.49	D	mg/Kg	5	7/12/2020 8:44:46 AM	53614
Surr: 1,2-Dichloroethane-d4	103	70-130	D	%Rec	5	7/12/2020 8:44:46 AM	53614
Surr: 4-Bromofluorobenzene	90.5	70-130	D	%Rec	5	7/12/2020 8:44:46 AM	53614
Surr: Dibromofluoromethane	104	70-130	D	%Rec	5	7/12/2020 8:44:46 AM	53614
Surr: Toluene-d8	106	70-130	D	%Rec	5	7/12/2020 8:44:46 AM	53614

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/16/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

**Lab ID:** 2007408-018

**Collection Date:** 7/7/2020 4:55:00 PM

Matrix: SOIL

**Received Date:** 7/9/2020 9:18:00 AM

Client Sample ID: S11, 1'

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	460	60	mg/Kg	20	7/13/2020 11:58:26 AM	53665
EPA METHOD 8015D MOD: GASOLINE RANGE	<b></b>				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/12/2020 9:13:15 AM	53614
Surr: BFB	97.7	70-130	%Rec	1	7/12/2020 9:13:15 AM	53614
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	74	10	mg/Kg	1	7/11/2020 6:24:55 PM	53629
Motor Oil Range Organics (MRO)	90	50	mg/Kg	1	7/11/2020 6:24:55 PM	53629
Surr: DNOP	109	55.1-146	%Rec	1	7/11/2020 6:24:55 PM	53629
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	7/12/2020 9:13:15 AM	53614
Toluene	ND	0.048	mg/Kg	1	7/12/2020 9:13:15 AM	53614
Ethylbenzene	ND	0.048	mg/Kg	1	7/12/2020 9:13:15 AM	53614
Xylenes, Total	ND	0.096	mg/Kg	1	7/12/2020 9:13:15 AM	53614
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	7/12/2020 9:13:15 AM	53614
Surr: 4-Bromofluorobenzene	97.4	70-130	%Rec	1	7/12/2020 9:13:15 AM	53614
Surr: Dibromofluoromethane	107	70-130	%Rec	1	7/12/2020 9:13:15 AM	53614
Surr: Toluene-d8	107	70-130	%Rec	1	7/12/2020 9:13:15 AM	53614

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2007408** 

16-Jul-20

Client: Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

Sample ID: MB-53651 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **53651** RunNo: **70283** 

Prep Date: 7/11/2020 Analysis Date: 7/11/2020 SeqNo: 2443142 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-53651 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 53651 RunNo: 70283

Prep Date: 7/11/2020 Analysis Date: 7/11/2020 SeqNo: 2443143 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.4 90 110

Sample ID: MB-53665 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 53665 RunNo: 70304

Prep Date: 7/13/2020 Analysis Date: 7/13/2020 SeqNo: 2443770 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-53665 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 53665 RunNo: 70304

Prep Date: 7/13/2020 Analysis Date: 7/13/2020 SeqNo: 2443771 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.1 90 110

### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

Result

44

4.5

PQL

WO#: **2007408** 

16-Jul-20

Client: Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

Sample ID: <b>MB-53629</b>	SamnT	ype: ME	RI K	Tes	tCode: <b>F</b> l	PA Method	8015M/D: Die	sel Rang	e Organics		
•	•						0010III/D. DI	Josi Kang	o Organios		
Client ID: PBS	Batch	atch ID: <b>53629</b> RunNo: <b>70238</b>									
Prep Date: 7/10/2020	Analysis D	ate: <b>7/</b>	11/2020	5	SeqNo: 2	442220	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	12		10.00		121	55.1	146				
Sample ID: LCS-53629	SampT	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	n ID: <b>53</b>	629	F	RunNo: 7	0238					
Prep Date: 7/10/2020	Analysis D	oate: 7/	11/2020	5	SeqNo: 2	442221	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	53	10	50.00	0	106	70	130				
Surr: DNOP	4.9		5.000		97.0	55.1	146				
Sample ID: 2007408-001AMS	SamoT	ype: <b>M</b> \$	3	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		
•	<b>-</b>	) F									
Client ID: \$1, 0"-6"	•	n ID: <b>53</b>			RunNo: <b>7</b>	0238			-		

Sample ID: 2007408-001AMSD	SampT	уре: МS	SD	Test	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: \$1, 0"-6"	Batch	Batch ID: <b>53629</b> RunNo: <b>70238</b>										
Prep Date: 7/10/2020	Analysis D	ate: <b>7/</b>	11/2020	S	SeqNo: 24	442224	Units: mg/K					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	45	9.7	48.40	0	92.4	47.4	136	2.60	43.4			
Surr: DNOP	4.4		4.840		91.6	55.1	146	0	0			

0

%REC

92.4

95.2

LowLimit

47.4

55.1

HighLimit

136

146

%RPD

**RPDLimit** 

Qual

SPK value SPK Ref Val

47.13

4.713

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

Diesel Range Organics (DRO)

Surr: DNOP

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2007408** 

16-Jul-20

Client: Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

Sample ID: mb-53614	ple ID: mb-53614 SampType: MBLK					TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batc	h ID: <b>53</b> 0	614	F	RunNo: <b>7</b>	0265						
Prep Date: 7/9/2020	Analysis [	Date: 7/	11/2020	S	SeqNo: 2442043 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		107	70	130					
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.1	70	130					
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130					
Surr: Toluene-d8	0.50		0.5000		99.2	70	130					

Sample ID: Ics-53614	Samp1	Гуре: <b>LC</b>	S4	Tes	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	BatchQC Batch ID: 53614					RunNo: <b>70265</b>							
Prep Date: 7/9/2020	Analysis [	Date: <b>7/</b>	11/2020	8	SeqNo: 2	442044	Units: mg/k						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	1.1	0.025	1.000	0	111	80	120						
Toluene	1.0	0.050	1.000	0	102	80	120						
Ethylbenzene	1.0	0.050	1.000	0	103	80	120						
Xylenes, Total	3.3	0.10	3.000	0	111	80	120						
Surr: 1,2-Dichloroethane-d4	0.55		0.5000		110	70	130						
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.8	70	130						
Surr: Dibromofluoromethane	0.56		0.5000		111	70	130						
Surr: Toluene-d8	0.48		0.5000		96.4	70	130						

Sample ID: 2007408-001ams	SampT	SampType: MS4 TestCode: EPA Method 8						d 8260B: Volatiles Short List			
Client ID: <b>\$1, 0"-6"</b>	Batcl	n ID: <b>53</b> 0	614	F	RunNo: <b>7</b> 0						
Prep Date: 7/9/2020	Analysis D	Date: <b>7/</b>	11/2020	S	SeqNo: 24	442046	Units: mg/K	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.025	0.9814	0	116	71.1	115			S	
Toluene	1.0	0.049	0.9814	0	106	79.6	132				
Ethylbenzene	1.1	0.049	0.9814	0	107	83.8	134				
Xylenes, Total	3.3	0.098	2.944	0	113	82.4	132				
Surr: 1,2-Dichloroethane-d4	0.52		0.4907		107	70	130				
Surr: 4-Bromofluorobenzene	0.44		0.4907		89.4	70	130				
Surr: Dibromofluoromethane	0.55		0.4907		111	70	130				
Surr: Toluene-d8	0.48		0.4907		98.0	70	130				

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2007408** 

16-Jul-20

Client: Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

Sample ID: 2007408-001ams	<b>d</b> Samp1	Гуре: <b>М</b> S	SD4	Tes	estCode: EPA Method 8260B: Volatiles Short List						
Client ID: \$1, 0"-6"	Batc	h ID: <b>53</b> 0	614	F	RunNo: 7						
Prep Date: 7/9/2020	Analysis D	Date: 7/	11/2020	5	SeqNo: 2442047 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.024	0.9533	0	118	71.1	115	0.906	20	S	
Toluene	1.0	0.048	0.9533	0	106	79.6	132	3.28	20		
Ethylbenzene	1.1	0.048	0.9533	0	111	83.8	134	0.748	20		
Xylenes, Total	3.4	0.095	2.860	0	117	82.4	132	0.974	20		
Surr: 1,2-Dichloroethane-d4	0.50		0.4766		106	70	130	0	0		
Surr: 4-Bromofluorobenzene	0.48		0.4766		101	70	130	0	0		
Surr: Dibromofluoromethane	0.55		0.4766		115	70	130	0	0		
Surr: Toluene-d8	0.47		0.4766		98.8	70	130	0	0		

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 2007408

16-Jul-20

**Client:** Pima Environmental Services LLC

**Project:** Emerald PWU 20 1H

Sample ID: mb-53614 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 53614 RunNo: 70265

Prep Date: 7/9/2020 Analysis Date: 7/11/2020 SeqNo: 2442071 Units: mq/Kq

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 450 500.0 89.8 70 130

Sample ID: Ics-53614 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 53614 RunNo: 70265

Prep Date: 7/9/2020 Analysis Date: 7/11/2020 SeqNo: 2442072 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 5.0 25.00 O 75.9 130

Surr: BFB 480 500.0 96.2 70 130

Sample ID: 2007408-002ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: S1, 1' Batch ID: 53614 RunNo: 70265

Prep Date: 7/9/2020 Analysis Date: 7/11/2020 SeqNo: 2442076 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 21 4.9 24.73 0 84.3 70 130 Surr: BFB 480 97.1 494.6 70 130

Sample ID: 2007408-002amsd TestCode: EPA Method 8015D Mod: Gasoline Range SampType: MSD

Client ID: S1, 1' Batch ID: 53614 RunNo: 70265

Prep Date: 7/9/2020 Analysis Date: 7/12/2020 SeqNo: 2442077 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 21 4.8 23.92 86.0 70 1.38 130 20 Surr: BFB 470 478.5 97.3 70 130 0 0

### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 23 of 23



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name:	Pima Envir Services L		Work	Order Num	ber: 200	7408			RcptNo: 1	
Received By:	Juan Roja	as	7/9/202	20 9:18:00 A	M		Guan	39		
Completed By	: Juan Roja	as		20 10:12:55			Guan	38		
Reviewed By:	En	n 7/9/	215				2111			
Chain of Cu	ustody									
1. Is Chain of		lete?			Yes	~	No		Not Present	
2. How was ti	ne sample deliv	vered?			Cou	rier				
Log In										
3. Was an att	empt made to	cool the samp	les?		Yes	~	No		NA 🗆	
4. Were all sa	mples received	l at a tempera	ture of >0° C	to 6.0°C	Yes	V	No		NA 🗆	
5. Sample(s)	in proper conta	iner(s)?			Yes	<b>V</b>	No			
6. Sufficient sa	ample volume f	or indicated te	est(s)?		Yes	~	No			
7. Are sample:	s (except VOA	and ONG) pro	perly preserve	ed?	Yes	<b>V</b>	No			
8. Was preser	vative added to	bottles?			Yes		No	<b>V</b>	NA 🗆	
9. Received at	least 1 vial wit	h headspace	<1/4" for AQ \	/OA?	Yes		No		NA 🗹	
10. Were any s	ample containe	ers received b	roken?		Yes		No	<b>V</b>	# of preserved	
11. Does paper (Note discre	work match bot pancies on cha		)		Yes	V	No		bottles checked for pH: (<2 or >12 unle	ss noted)
12. Are matrice:	s correctly iden	tified on Chai	n of Custody?		Yes	~	No		Adjusted?	
13, Is it clear wh	nat analyses we	ere requested	?		Yes	~	No			1010
14. Were all hol (If no, notify	ding times able customer for a				Yes	<b>V</b>	No		Checked by: J. 7	19120
Special Han	dling (if app	olicable)								
15. Was client		The state of the s	with this order	?	Yes		No		NA 🔽	
By W Rega				Date Via:	eM	ail 🗌	Phone _	] Fax	☐ In Person	
16. Additional	remarks:									
17. Cooler Inf	ormation									
Cooler N	the frame of the country of the coun	Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву		
1	0.7	Good	1					-		

Turn-Around Time: Chain-of-Custody Record 5 Day HALL ENVIRONMENTAL Client: Pima Environ menta ☐ Rush ANALYSIS LABORATORY Project Name: www.hallenvironmental.com Mailing Address: [160] PWyZo Emerold N. Turner Stp 500 4901 Hawkins NE - Albuquerque, NM 87109 Project #: Tel. 505-345-3975 Fax 505-345-4107 20715188 675-631-6977 Phone #: **Analysis Request** Chris (a) Pinal oil com email or Fax#: Project Manager: SO TPH:8015D(GRO / DRO / MRO) Total Coliform (Present/Absent) BTEX / MTBE / TMB's (8021) 8270SIMS QA/QC Package: CI, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, Chris Jones → Standard □ Level 4 (Full Validation) 8081 Pesticides/8082 Accreditation: ☐ Az Compliance Sampler: 8270 (Semi-VOA) On Ice: ☐ Yes □ NELAC □ No □ Other RCRA 8 Metals # of Coolers? 12-19 ☐ EDD (Type) EDB (Method 8260 (VOA) Cooler Temp(including CF): 0.5-0.1= 0.7-(°C) Container Preservative HEAL No. Sample Name Type and # Type 2007408 Date Time Matrix 3:30 Glass IGP -001 3:35 -002 3:40 -003 3,45 -004 3:50 -005 3:56 -006 -CO7 4:05 -008 -007

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Received by:

-010

1540

Remarks:

Bill to Devon

4:15

4:20

Relinquished by:

Relinguished by:

Turn-Around Time: F Day Chain-of-Custody Record HALL ENVIRONMENTAL Client: Pima Environ Menta □ Rush ANALYSIS LABORATORY Project Name: www.hallenvironmental.com Emerald Mailing Address: 1601 Al. Tumer Ste 500 Hobbs, NM 88260 4901 Hawkins NE - Albuquerque, NM 87109 Project #: Tel. 505-345-3975 Fax 505-345-4107 20715188 **Analysis Request** Phone #: Chris@ PimaDil, Com SO4 email or Fax#: Project Manager: TPH:8015D(GRO / DRO / MRO) Total Coliform (Present/Absent) BTEX / MTBE / TMB's (8021) 8270SIMS QA/QC Package: Chris Jones CI, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, ☐ Level 4 (Full Validation) 8081 Pesticides/8082 Accreditation: □ Az Compliance Sampler: 8270 (Semi-VOA) □ NELAC On Ice: PYes □ No ☐ Other RCRA 8 Metals PAHs by 8310 # of Coolers: 1 ☐ EDD (Type) EDB (Method 8260 (VOA) Cooler Temp(including CF): 0.8-0.1=0.7(°C) HEAL No. Container Preservative Sample Name 2007408 Type and # Time Matrix Type Date Glass 4:30 4:35 -014 4:40 -015 -016 4:50 -017 4:55 -018 Relinquished by: Received by: Remarks: Relinguished by:



November 25, 2020

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

RE: EMERALD 20 PWV #1H

Enclosed are the results of analyses for samples received by the laboratory on 11/23/20 8:05.

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

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

Project Name: EMERALD 20 PWV #1H

Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/19/2020

Sampling Type: Soil

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

### Sample ID: S - 15 - 1' (H003091-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.78	88.9	2.00	11.6	
Toluene*	<0.050	0.050	11/23/2020	ND	1.70	84.9	2.00	11.6	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.74	87.1	2.00	11.3	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.05	84.1	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 73.3-12	9						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	11/23/2020	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	1350	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	272	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	88.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	110	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

Project Name: EMERALD 20 PWV #1H

Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/19/2020

Sampling Type: Soil

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

### Sample ID: S - 15 - 2' (H003091-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.78	88.9	2.00	11.6	
Toluene*	<0.050	0.050	11/23/2020	ND	1.70	84.9	2.00	11.6	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.74	87.1	2.00	11.3	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.05	84.1	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	11/23/2020	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	204	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	53.2	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	94.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	102	% 42.2-15	6						

Applyzod By: MC

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported:

11/25/2020

Sampling Date: Sampling Type: 11/19/2020

Project Name:

EMERALD 20 PWV #1H

Sampling Condition:

Soil Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

\*=Accredited Analyte

Project Location:

DEVON - EDDY CO NM

#### Sample ID: S - 15 - 3' (H003091-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.78	88.9	2.00	11.6	
Toluene*	< 0.050	0.050	11/23/2020	ND	1.70	84.9	2.00	11.6	
Ethylbenzene*	< 0.050	0.050	11/23/2020	ND	1.74	87.1	2.00	11.3	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.05	84.1	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/23/2020	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	50.8	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	<10.0	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	94.4 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.1 9	% 42.2-15	6						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

Project Name: EMERALD 20 PWV #1H

Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/19/2020

Sampling Type: Soil

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

### Sample ID: S - 16 - 1' (H003091-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.78	88.9	2.00	11.6	
Toluene*	<0.050	0.050	11/23/2020	ND	1.70	84.9	2.00	11.6	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.74	87.1	2.00	11.3	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.05	84.1	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/23/2020	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	13.2	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	<10.0	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	97.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.9	% 42.2-15	6						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported:

11/25/2020

Project Name: EMERALD 20 PWV #1H

Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM Sampling Date: 11/19/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact

Tamara Oldaker Sample Received By:

### Sample ID: S - 16 - 2' (H003091-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.78	88.9	2.00	11.6	
Toluene*	<0.050	0.050	11/23/2020	ND	1.70	84.9	2.00	11.6	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.74	87.1	2.00	11.3	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.05	84.1	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	<10.0	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	101 5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.8	% 42.2-15	6						

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with Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

11/25/2020

Project Name: EMERALD 20 PWV #1H
Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/19/2020

Sampling Type: Soil

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

### Sample ID: S - 16 - 3' (H003091-06)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.78	88.9	2.00	11.6	
Toluene*	<0.050	0.050	11/23/2020	ND	1.70	84.9	2.00	11.6	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.74	87.1	2.00	11.3	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.05	84.1	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	70.1	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	15.8	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	94.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.8	% 42.2-15	6						

Applyzod By: MC

Cardinal Laboratories \*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

EMERALD 20 PWV #1H

Project Name: Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM Sampling Date: 11/19/2020

Sampling Type: Soil

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

### Sample ID: S - 17 - 1' (H003091-07)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.78	88.9	2.00	11.6	
Toluene*	<0.050	0.050	11/23/2020	ND	1.70	84.9	2.00	11.6	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.74	87.1	2.00	11.3	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.05	84.1	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	<10.0	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	105	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.2	% 42.2-15	6						

Applyzod By: MC

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

Project Name: EMERALD 20 PWV #1H

Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/19/2020

Sampling Type: Soil

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

### Sample ID: S - 17 - 2' (H003091-08)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	<10.0	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	108	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	100	% 42.2-15	6						

Applyzod By: MC

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

EMERALD 20 PWV #1H

Project Name: Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM Sampling Date: 11/19/2020

Sampling Type: Soil

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

### Sample ID: S - 17 - 3' (H003091-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	<10.0	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	103 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.0	% 42.2-15	6						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

EMERALD 20 PWV #1H

Project Name: Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM Sampling Date: 11/19/2020

Sampling Type: Soil

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

### Sample ID: S - 18 - 1' (H003091-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	<10.0	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	100 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.5	% 42.2-15	6						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

11/25/2020 EMERALD 20 PWV #1H

Project Name: EMERALD 20 Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/19/2020

Sampling Type: Soil

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

#### Sample ID: S - 18 - 2' (H003091-11)

RTFY 8021R

BIEX 8021B	mg,	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	<10.0	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	95.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.2	% 42.2-15	6						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported:

11/25/2020

Project Name: EMERALD 20 PWV #1H

Project Number: NONE GIVEN

Project Location: **DEVON - EDDY CO NM**  Sampling Date: 11/19/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact

Tamara Oldaker Sample Received By:

#### Sample ID: S - 18 - 3' (H003091-12)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	<10.0	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	97.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.1	% 42.2-15	6						

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#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

Project Name: EMERALD 20 PWV #1H

Project Number: NONE GIVEN

Project Location: **DEVON - EDDY CO NM**  Sampling Date: 11/19/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

S-04

#### Sample ID: S - 19 - 1' (H003091-13)

RTFY 8021R

B1EX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	GC-NC
Total Xylenes*	1.09	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	1.11	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	246	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	121	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	4640	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	814	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	138	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	214	% 42.2-15	6						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

Project Name: EMERALD 20 PWV #1H

Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/19/2020

Sampling Type: Soil

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

#### Sample ID: S - 19 - 2' (H003091-14)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	GC-NC
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	904	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	151	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	103	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	111	% 42.2-15	6						

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#### Analytical Results For:

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

Received: 11/23/2020 Reported:

11/25/2020

Project Name: EMERALD 20 PWV #1H

Project Number: NONE GIVEN

Project Location: **DEVON - EDDY CO NM**  Sampling Date: 11/19/2020

Sampling Type: Soil

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

#### Sample ID: S - 19 - 3' (H003091-15)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	418	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	80.9	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	107	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	118	% 42.2-15	6						

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with Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

C-04



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

#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

11/25/2020 EMERALD 20 PWV #1H

Project Name: EMERALD 20 PV
Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/19/2020

Sampling Type: Soil

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

#### Sample ID: S - 20 - 1' (H003091-16)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	GC-NC
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	175	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	35.6	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	5850	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	1120	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	113	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	270	% 42.2-15	6						

Applyzod By: MC

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

11/25/2020 EMERALD 20 PWV #1H

Project Name: EMERALD 20
Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/19/2020

Sampling Type: Soil

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

#### Sample ID: S - 20 - 2' (H003091-17)

RTFY 8021R

B1EX 8021B	mg	<sup>и</sup> кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	83.9	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	18.2	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	102	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	100	% 42.2-15	6						

Applyzod By: MC

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MMc Songh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

EMERALD 20 PWV #1H

Project Name: Project Number: NONE GIVEN

Project Location: **DEVON - EDDY CO NM**  Sampling Date: 11/19/2020

Sampling Type: Soil

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

#### Sample ID: S - 20 - 3' (H003091-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	290	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	55.9	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	97.6	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	106	% 42.2-15	6						

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with Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported:

11/25/2020

Project Name: EMERALD 20 PWV #1H

Project Number: NONE GIVEN

Project Location: **DEVON - EDDY CO NM**  Sampling Date: 11/19/2020

Sampling Type: Soil

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

#### Sample ID: S - 21 - 1' (H003091-19)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	123	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	35.6	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	90.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.3	% 42.2-15	6						

Applyzod By: MC

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

Project Name: EMERALD 20 PWV #1H

Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/19/2020

Sampling Type: Soil

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

#### Sample ID: S - 22 - 1' (H003091-20)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2020	ND	240	120	200	1.58	
DRO >C10-C28*	44.4	10.0	11/23/2020	ND	243	122	200	0.638	
EXT DRO >C28-C36	10.6	10.0	11/23/2020	ND					
Surrogate: 1-Chlorooctane	107	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	105	% 42.2-15	6						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

Project Name: EMERALD 20 PWV #1H

Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/19/2020

Sampling Type: Soil

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

#### Sample ID: S - 22 - 2' (H003091-21)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/24/2020	ND	246	123	200	8.82	
DRO >C10-C28*	22.0	10.0	11/24/2020	ND	249	125	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	11/24/2020	ND					
Surrogate: 1-Chlorooctane	89.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.0	% 42.2-15	6						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/23/2020 Reported: 11/25/2020

11/25/2020 EMERALD 20 PWV #1H

Project Name: EMERALD 20 P Project Number: NONE GIVEN

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/19/2020

Sampling Type: Soil

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

#### Sample ID: S - 22 - 3' (H003091-22)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2020	ND	1.98	99.1	2.00	2.74	
Toluene*	<0.050	0.050	11/23/2020	ND	1.89	94.4	2.00	3.24	
Ethylbenzene*	<0.050	0.050	11/23/2020	ND	1.96	98.2	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/23/2020	ND	5.64	94.0	6.00	2.13	
Total BTEX	<0.300	0.300	11/23/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/23/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/24/2020	ND	246	123	200	8.82	
DRO >C10-C28*	11.1	10.0	11/24/2020	ND	249	125	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	11/24/2020	ND					
Surrogate: 1-Chlorooctane	97.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.2	% 42.2-15	6						

Applyzod By: MC

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

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

GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 6/17/2021 12:00:12 AM



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Pima Environmulal	10	_							В	IL	L TO						AN	IALYS	SIS	RE	QUE	ST			
Project Manager:	Chris Dones							P.O	). #:	****		7/571	15													
	IN. Turne									any:	·	ever														
City: /debbs	State: NW	Zip	:	88	240	)		Attr	n:	10 m	^	Bynu														
Phone #: 57	5-631-6977 Fax#:							Add	dres	ss:																
Project #:	B Project Owner	r:	De	VO	^			City	y:		_															
Project Name:	Browald 20 PW111+							Sta	te:		Z	Zip:														
Project Location:	1 . /							Ph	one	#:																
Sampler Name:	Robert laner	_	_				_	Fax	x #:			CAME	LING													
FOR LAB USE ONLY	/	0.		-	M	ATRI	X	-	PRE	ESER	۷.	SAIVIP	LING	N												
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analyses. All claims including	g those for negligence and any other cause whatsoever shall b	e deem	ed war	tation	husines	s intern	uptions.	loss o	of use.	or loss o	of pro	ofits incurred by	client, its subsidia	ines,	ae .											
Relinquished By	g out of or related to the performance of services hereunder by	Cardin	al, reg	ardies:	By:	her sur	ch claim	is ba	sed up	oen any e	of the	e above stated n	Verbal Re All Result	esult:	□ Yo	es I. Ple	□ N ase	o A provid	dd'l Ph	one a	#: ress:					
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<sup>†</sup> Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 6/17/2021 12:00:12 AM



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: Pima Envi	ronmental									BI	LL TO					AN	ALYS	SIS R	REQU	EST		
Project Manager	. Char Ton	es							P.O.	#:	20	715 74	5										
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City: 406	65	State: AZ	Zip	: "	88	24	ŏ		Attn:		Tom	Byna	^										
	5-631.6977	Fax #:							Addr			1											
	3	Project Owner:		a	vs	n			City:														
	Emerald 20	PWU IH							State	2:		Zip:											
Project Location	: Eddy								Phor	ne #	:									1			
Sampler Name:	Robert Cage								Fax	#:											18		
FOR LAB USE ONLY						MA	ATRI	X	P	RES	ERV.	SAME	PLING	1		9							
Lab I.D.	Sample	I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ICE / COOL	OTHER:	DATE	TIME	1814	BTEX	Chloric					į.		
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nalyses. All claims includin service. In no event shall Ca	d Damages. Cardinal's liability and cl og those for negligence and any other ardinal be liable for incidental or cons out of or related to the performance.	r cause whatsoever shall be di equental damages, including	eeme withou irdinat	d waiw it limita i, rega	ed unle	ss made usiness i of whether	in writ	ing and a tions, lo	received ss of us	by Ca e, or lo	ardinal w	ithin 30 days after ofits incurred by o	r completion of the	he applicab ries, se. sult:	☐ Ye			d'I Phor					
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Received by OCD: 6/17/2021 12:00:12 AM



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	( - /	nuiro nment							В	ILI	L TO					ANA	LYSIS	S RE	QUES	T		
Project Manager:	Chris J	Ones	м				P	0. 1	20.00	_	1574	5										
	1 16 1	eries							pany:		Denon											
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city: Hubb	5	State: (1	c 21p	. /	8009	_			ess:		7,00											
Phone #: 575									255.	-												
Project #:		Project Own						ity:		_												
Project Name: Z		to PWU	14					tate		Z	ip:											
Project Location:	Eddy								e#:				1	1								
Sampler Name:	Robert Ca	spr		_			_	ax#			SAMP	LING		-0								
FOR LAB USE ONLY		,			N	ATRI	X	P	RESER	4	SAMP	LING		\$					1 1			
Lab I.D.	Sampl	e I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	LUDGE	CID/RASE	ICE / COOL	HEN.	DATE	TIME	BIEX	Chelor	ALL							
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PLEASE NOTE: Liability and	Barrier Constants Table	and eliant's auditein romad	y for any nis	im are	ang whether b	ased in o	contract or	tort, s	half be limit	led to	the amount pair	d by the client fo	or the									
analyses. All claims including	those for negligence and an	ly other cause whatsoever sh	all be deen	and the	tation busine	oc intern	enforms los	s of us	se or loss o	of prof	fits incurred by o	dient, its subsidie	aries,	ble								
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December 03, 2020

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

RE: EMERALD 20 PWU #1H

Enclosed are the results of analyses for samples received by the laboratory on 11/30/20 12:30.

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

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date: 11/25/2020

Reported: 12/03/2020 Sampling Type: Soil
Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)

Project Number: 3 Sample Received By: Tamara Oldaker

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 1 W - BOTTOM (H003128-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	1.96	98.2	2.00	4.41	
Toluene*	<0.050	0.050	12/01/2020	ND	1.89	94.3	2.00	4.60	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	1.97	98.7	2.00	4.30	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.64	94.0	6.00	4.14	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	208	104	200	5.58	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	180	89.9	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					
Surrogate: 1-Chlorooctane	120 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	125 9	% 42.2-15	6						

## Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date: 11/25/2020

Reported: 12/03/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)
Project Number: 3 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 1 W - SIDE (H003128-02)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	1.96	98.2	2.00	4.41	
Toluene*	<0.050	0.050	12/01/2020	ND	1.89	94.3	2.00	4.60	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	1.97	98.7	2.00	4.30	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.64	94.0	6.00	4.14	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	208	104	200	5.58	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	180	89.9	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					
Surrogate: 1-Chlorooctane	114	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	118	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kreine



#### Analytical Results For:

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

Received: 11/30/2020 Reported: 12/03/2020

Project Name: EMERALD 20 PWU #1H

Project Number: 3

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/25/2020

Sampling Type: Soil

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

#### Sample ID: S - 5 S - BOTTOM (H003128-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	1.96	98.2	2.00	4.41	
Toluene*	<0.050	0.050	12/01/2020	ND	1.89	94.3	2.00	4.60	
Ethylbenzene*	< 0.050	0.050	12/01/2020	ND	1.97	98.7	2.00	4.30	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.64	94.0	6.00	4.14	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	208	104	200	5.58	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	180	89.9	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					
Surrogate: 1-Chlorooctane	105	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	108	% 42.2-15	6						

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Celey D. Keene



Sample Received By:

11/25/2020

Tamara Oldaker

#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date:

Reported: 12/03/2020 Sampling Type: Soil
Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)

Project Number: 3

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 5 S - SIDE (H003128-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	1.96	98.2	2.00	4.41	
Toluene*	<0.050	0.050	12/01/2020	ND	1.89	94.3	2.00	4.60	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	1.97	98.7	2.00	4.30	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.64	94.0	6.00	4.14	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	208	104	200	5.58	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	180	89.9	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					
Surrogate: 1-Chlorooctane	113	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	118	% 42.2-15	6						

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Celey D. Keene



#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date: 11/25/2020

Reported: 12/03/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes) Sample Received By: Project Number: Tamara Oldaker

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 6 S - SIDE (H003128-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	1.96	98.2	2.00	4.41	
Toluene*	<0.050	0.050	12/01/2020	ND	1.89	94.3	2.00	4.60	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	1.97	98.7	2.00	4.30	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.64	94.0	6.00	4.14	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	208	104	200	5.58	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	180	89.9	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					
Surrogate: 1-Chlorooctane	118 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	123 9	2% 42.2-15	6						

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#### Analytical Results For:

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

 Received:
 11/30/2020
 Sampling Date:
 11/25/2020

 Reported:
 12/03/2020
 Sampling Type:
 Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)

Project Number: 3 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 6 S - BOTTOM (H003128-06)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	1.96	98.2	2.00	4.41	
Toluene*	<0.050	0.050	12/01/2020	ND	1.89	94.3	2.00	4.60	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	1.97	98.7	2.00	4.30	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.64	94.0	6.00	4.14	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	208	104	200	5.58	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	180	89.9	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					
Surrogate: 1-Chlorooctane	103	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	107	% 42.2-15	6						

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11/25/2020

Soil

#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date: Reported: 12/03/2020 Sampling Type:

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)
Project Number: 3 Sample Received By: Tamara Oldaker

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 13 E - SIDE (H003128-07)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	1.96	98.2	2.00	4.41	
Toluene*	<0.050	0.050	12/01/2020	ND	1.89	94.3	2.00	4.60	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	1.97	98.7	2.00	4.30	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.64	94.0	6.00	4.14	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	208	104	200	5.58	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	180	89.9	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					
Surrogate: 1-Chlorooctane	119	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	124	% 42.2-15	6						

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#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date: 11/25/2020 Reported: 12/03/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes) Tamara Oldaker

Project Number: 3 Sample Received By: Project Location: DEVON - EDDY CO NM

Sample ID: S - 13 E - BOTTOM (H003128-08)

mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	12/01/2020	ND	1.96	98.2	2.00	4.41	
<0.050	0.050	12/01/2020	ND	1.89	94.3	2.00	4.60	
<0.050	0.050	12/01/2020	ND	1.97	98.7	2.00	4.30	
<0.150	0.150	12/01/2020	ND	5.64	94.0	6.00	4.14	
<0.300	0.300	12/01/2020	ND					
101 %	73.3-12	9						
mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
80.0	16.0	12/01/2020	ND	416	104	400	0.00	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/01/2020	ND	208	104	200	5.58	
<10.0	10.0	12/01/2020	ND	180	89.9	200	12.1	
<10.0	10.0	12/01/2020	ND					
	Result <0.050 <0.050 <0.050 <0.150 <0.300  1019  mg/  Result 80.0  mg/  Result <10.0 <10.0	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300  101 % 73.3-12  mg/ky  Result Reporting Limit  80.0 16.0  mg/ky  Result Reporting Limit <10.0 10.0 <10.0 10.0	Result       Reporting Limit       Analyzed         <0.050	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

Surrogate: 1-Chlorooctane 107 % 44.3-144 Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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Tamara Oldaker

## Analytical Results For:

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

Received: 11/30/2020 Sampling Date: 11/25/2020

Reported: 12/03/2020 Sampling Type: Soil
Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)

Project Number: 3 Sample Received By:

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 12 N - BOTTOM (H003128-09)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	1.96	98.2	2.00	4.41	
Toluene*	<0.050	0.050	12/01/2020	ND	1.89	94.3	2.00	4.60	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	1.97	98.7	2.00	4.30	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.64	94.0	6.00	4.14	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	208	104	200	5.58	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	180	89.9	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					
Surrogate: 1-Chlorooctane	115	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	122	% 42.2-15	6						

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Tamara Oldaker

Sample Received By:

#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date: 11/25/2020

Reported: 12/03/2020 Sampling Type: Soil Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)

Project Number:

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 12 N - SIDE (H003128-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	1.96	98.2	2.00	4.41	
Toluene*	<0.050	0.050	12/01/2020	ND	1.89	94.3	2.00	4.60	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	1.97	98.7	2.00	4.30	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.64	94.0	6.00	4.14	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	208	104	200	5.58	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	180	89.9	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					
Surrogate: 1-Chlorooctane	114 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	120 9	6 42.2-15	6						

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#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date: 11/25/2020

Reported: 12/03/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)
Project Number: 3 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 11 W - BOTTOM (H003128-11)

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	1.96	98.2	2.00	4.41	
Toluene*	<0.050	0.050	12/01/2020	ND	1.89	94.3	2.00	4.60	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	1.97	98.7	2.00	4.30	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.64	94.0	6.00	4.14	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	208	104	200	5.58	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	180	89.9	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					
Surrogate: 1-Chlorooctane	109 5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	116 9	% 42.2-15	6						

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#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date: 11/25/2020

Reported: 12/03/2020 Sampling Type: Soil Project Name: EMERALD 20 PWU #1H Sampling Condition:

\*\* (See Notes) Sample Received By: Project Number: Tamara Oldaker

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 11 W - SIDE (H003128-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	20.9	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	23.1	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	97.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.2	% 42.2-15	6						

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#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date: 11/25/2020

Reported: 12/03/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes) Sample Received By: Project Number: Tamara Oldaker

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 14 S - SIDE (H003128-13)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	95.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.9	% 42.2-15	6						

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Tamara Oldaker

#### Analytical Results For:

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

Received: 11/30/2020 Reported: 12/03/2020

 11/30/2020
 Sampling Date:
 11/25/2020

 12/03/2020
 Sampling Type:
 Soil

 EMERALD 20 PWU #1H
 Sampling Condition:
 \*\* (See Notes)

Sample Received By:

Project Number: 3

Project Name:

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 14 S - BOTTOM (H003128-14)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	86.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.9	% 42.2-15	6						

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Celeg & Freene



11/25/2020

Soil

#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date: Reported: 12/03/2020 Sampling Type:

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)
Project Number: 3 Sample Received By: Tamara Oldaker

Project Location: DEVON - EDDY CO NM

Sample ID: S - 23 - 1' (H003128-15)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	97.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.1	% 42.2-15	6						

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Celey D. Keene



\*\* (See Notes)

#### Analytical Results For:

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

Received: 11/30/2020 Reported:

Sampling Date: 11/25/2020 12/03/2020 Sampling Type: Soil

Sampling Condition:

Project Name: EMERALD 20 PWU #1H

Sample Received By: Project Number: 3 Tamara Oldaker

DEVON - EDDY CO NM Project Location:

#### Sample ID: S - 23 - 2' (H003128-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	86.99	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.1	% 42.2-15	6						

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Celeg D. Freene



Tamara Oldaker

## Analytical Results For:

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

Received: 11/30/2020 Sampling Date: 11/25/2020 Reported: 12/03/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes) Sample Received By:

Project Number: 3

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 23 - 3' (H003128-17)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	87.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.2	% 42.2-15	6						

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#### Analytical Results For:

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

Received: 11/30/2020 Reported:

12/03/2020 EMERALD 20 PWU #1H

Project Name: Project Number: 3

DEVON - EDDY CO NM Project Location:

Sampling Date: 11/25/2020

Sampling Type: Soil Sampling Condition: \*\* (See Notes)

Sample Received By:

Tamara Oldaker

#### Sample ID: S - 24 - 1' (H003128-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	92.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.9	% 42.2-15	6						

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#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date: 11/25/2020

Reported: 12/03/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)
Project Number: 3 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: DEVON - EDDY CO NM

mg/kg

#### Sample ID: S - 24 - 2' (H003128-19)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	89.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.2	% 42.2-15	6						

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#### Analytical Results For:

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

Fax To:

Received: 11/30/2020 Sampling Date: 11/25/2020 Sampling Type:

Reported: Project Name: 12/03/2020

Soil

EMERALD 20 PWU #1H

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

Project Number: Project Location:

DEVON - EDDY CO NM

#### Sample ID: S - 24 - 3' (H003128-20)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/01/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	94.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.9	% 42.2-15	6						

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#### Analytical Results For:

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

Tax

ma/ka

Received: 11/30/2020 Reported: 12/03/2020

Project Name: EMERALD 20 PWU #1H

Project Number: 3

Project Location: DEVON - EDDY CO NM

Sampling Date: 11/25/2020

Sampling Condition:

Sampling Type: Soil

Sample Received By: Tamara Oldaker

\*\* (See Notes)

#### Sample ID: S - 25 - 1' (H003128-21)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/01/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	90.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.1	% 42.2-15	6						

Applyzod By: MC

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Celey D. Keine



#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date: 11/25/2020

Reported: 12/03/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)
Project Number: 3 Sample Received By: Tamara Oldaker

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 25 - 2' (H003128-22)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	< 0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/01/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	87.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.6	% 42.2-15	6						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



Sample Received By:

11/25/2020

Tamara Oldaker

#### Analytical Results For:

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

Received: 11/30/2020 Sampling Date:

Reported: 12/03/2020 Sampling Type: Soil
Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)

Project Number: 3

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 25 - 3' (H003128-23)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/01/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	<10.0	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	94.5	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	91.4	% 42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene

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# CARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(575) 393-2326 FAX (575) 393-2						П	150	-	BIL	L TO					ANA	LYSIS	S RE	QUES	Г		
Project Manager: Chris Jones						1	P.O.	_		115188	3										
							_			evan											
address: 1601 N. Turner St. 500  City: Hobbs 326 State: NM	Zin	. 88	24	4			Attn	To	и	ByNum											
1190	Zip	. 00	- 1	U				ress:		7,10											
Phone #: 575-964-4470 Fax #:							City														
Project #: Project Own	er:						Staf			Zip:											
Project Name: Emerald 20 PWW 1H		_								Lip.											
Project Location: Eddy Co NM								ne #:													
Sampler Name: Robert Carper	_	_		N	ATRI	_	Fax	PRESE	RV.	SAMP	LING										
FOR LAB USE ONLY				T										9							
	NO.	SS	TER	œ			П					1	×	loride							
Lab I.D. Sample I.D.	, R	# CONTAINERS	GROUNDWATER	WASTEWATER				SE.				4	P	-0		1					
Lab I.B.	(G)RAB OR	P.	Š	TEV		SLUDGE	OTHER:	ACID/BASE ICE / COOL	OTHER			IL	2	3							
4nx 3/28	G)R	00 #	GRO	WAS	SOIL	SLU	5	ACI	5	DATE	TIME	1	~	7		+-	+	-	-	+	+
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2 S - 1 W - Side-	li							1		1	0905	1	1		_	+	-	-	-	+	+
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48-58-Side											095	H	$\vdash$		-	+	-	+			+
578-68- Side	11										820	H		++	-	-	+		-		$\pm$
68-68-Botton					1	1					0925	H	1	+++	-	+	+	+			
7 S-13E-Side	-11					+					0930	H	1		-	-	+				1
8 5-13E-Bottom					1	4					0935	11			-	+	1				
9 S-12N-Bottom		-			1	1					0940	11.	1	T			1				
10 S-12N-Side	1	1		other b	T L	contract	t or tort	shall be li	imited	to the amount pa	id by the client fo	or the									
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy lanalyses. All claims including those for negligence and any other cause whatsoever shall	De deem	eu wa	totion I	hueine	es intern	intions	loss of	use, or los	ss of pr	rofits incurred by	client, its subsidia	the applica	able								
analyses. All claims including those for negligence and any other cause whatsoever shall service. In no event shall Cardinal be liable for incidental or consequental damages, inclu- affiliates or successors arising out of or related to the performance of services hereunder.	by Cardin	al, reg	ardless	of who	ther suc	th claim	is bas	ed upon ar	ny of th	ne above stated re	Verbal R	rise.	□ Ye	s 🗆	No Add	d'I Phon	ie #:				

affiliates or successors arising out of or related to the price of the	Date: //-30 -20 Time: /2:23	Received By:	AdaKar	Verbal Result: ☐ Ye All Results are emailed	es	Prione #: pail address:
Relinquished By:	Date:	Received By:	9	REMARKS:		*
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C /	Sample Condition Cool Intact Yes Yes	(Initials)	Turnaround Time:  Thermometer ID #113 Correction Factor None	Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C  Yes Yes No No Corrected Temp. °C

Released to Imaging: 7/29/2021 2:52:42 PM

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

CARDINAL Laboratories

Company Name	1110000 01000	Hal								BI	LL	TO					A٨	IALYS	IS R	EQUI	EST		
Project Manage	r: Chris Jones							P.(	0.#2	07/	518	8											
Address:	1601 N. Turner St. 500							Со	mpa	ny: [	Devo	N		1									
City: Holb:	1601 N. Turner St. 500 State: NM	Zij	o: {	38	24	6		Att	n: -	TON	1 6	VNU	ш	1									
Phone #: 575	.964.7740 Fax#:								dres		_	1.	.,	1						1			
Project #: 3	Project Owner	er:						Cit	y:														
Project Name:	EMERALD PWW 1H							Sta	ate:		Zip:			1									
Project Location	n: Eddy G NM Robert Carper							Ph	one	#:													1
Sampler Name:	Robert Carper							Fa	x #:														
FOR LAB USE ONLY	,	L	Г		N	IATRI	X		PRE	SERV.		SAMP	LING	1						1			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DA	ATE	TIME	Hd.L	BTEX	Chloride	*15						
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12	9-11 W-Side	li				1					"		10:05										
13	S-148-Side	$\square$											10:10										
14	9-11 W-Side S-148-Side S-148-Bottom	П	L										10:15										
15	S-23-1' S-23-2'	H	L		Ц					Ш			10:20										
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20	5-24-31	L						$\dashv$			لہ		10:45				+	+	+	1	+		
LEASE NOTE: Liability and	d Damages. Cardinal's liability and client's exclusive remedy for	any clair	n arisir	ng whe	ther ba	sed in co	ntract o	r tort.	shall be	e limited to	o the ame	ount paid	by the client for	the						_			

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Relinquished By:	Date: //-3.20 Time: /2.3.	Received by:	Oldato	Verbal Result: ☐ Y All Results are emailed		Add'I Phone #: vide Email address:
Relinquished By:	Date:	Received By:		REMARKS:		
L	Time:					
Delivered By: (Circle One)  Sampler - UPS - Bus - Other:	Observed Temp. °C	Cool Intact	(Initials)	Turnaround Time:	Standard Rush	☐ Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Yes Yes		Thermometer ID #113 Correction Factor None		☐ Yes ☐ Yes ☐ No ☐ Corrected Temp. °C

Received by OCD: 6/17/2021 12:00:12 AM

Released to Imaging: 7/29/2021 2:52:42 PM

Page 28 of 28

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(579) 393-2326 FAX (575) 393-2	476				_								_	ANI	ALYSI	S DE	OUES	т		
Company Name:	Kima ENVIRONMENTAL							_	L TO	,	-				AN	ALTO	3 KE	QUES		T-	Т
Project Manager:	: Chris Jones								5/88	,			- 1								
	INTurner St. 500								evon												
City: Holds	State: NM	Zip:	88	240		Att	tn: 10	al /	BYNA	M											
	964. \$7740 Fax#:					Ad	dress	:													
Project #: 3	Project Owne	r:				Cit	ty:													1	
Project Name: F	Enerald 20 PWW 14					St	ate:		Zip:									1			
Project Location	Eddy Co NM					Ph	none #	:													
Sampler Name:	Eddy Co NM Robert Carper					Fa	x #:														
FOR LAB USE ONLY			П		MATRIX		PRES	ERV.	SA	MPLI	NG				- 1						1
Lab I.D. #003128 当 32 33	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	ACID/BASE:	OTHER:	DATI		TIME (:00	the -	- BTEX	- Chlorid							
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	nd Damages. Cardinal's liability and client's exclusive remedy for	T			1		1	L	1	•	11:40										_

affliates or successors arising out of or related to the per Relinquished By:	Date:	Receive	huara k	ldaker	Verbal Result: ☐ Ye All Results are emailed	es □ No I. Please prov		Phone #: nail address:
Relinquished By:	Date:	Receive	ed By:		REMARKS:		- 1	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact Yes Yes No No	CHECKED BY: (Initials)	Turnaround Time: Thermometer ID #113 Correction Factor None	Standard Rush		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C  Yes Yes No No Corrected Temp. °C



December 14, 2020

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

RE: EMERALD 20 PWU #1H

Enclosed are the results of analyses for samples received by the laboratory on 12/10/20 16:55.

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

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 12/10/2020 Sampling Date: 12/10/2020 Reported: 12/14/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)

Project Number: 3 Sample Received By: Tamara Oldaker

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 6 S - BOTTOM (H003237-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	1.93	96.6	2.00	8.05	
Toluene*	<0.050	0.050	12/11/2020	ND	1.85	92.4	2.00	7.75	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	1.92	95.8	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.47	91.1	6.00	8.59	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/14/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2020	ND	244	122	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/11/2020	ND	235	118	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	12/11/2020	ND					
Surrogate: 1-Chlorooctane	87.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.5	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

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

 Received:
 12/10/2020
 Sampling Date:
 12/10/2020

 Reported:
 12/14/2020
 Sampling Type:
 Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)

Project Number: 3 Sample Received By: Tamara Oldaker
Project Location: DEVON - EDDY CO NM

Sample ID: S - 6 S - SIDE (H003237-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	1.93	96.6	2.00	8.05	
Toluene*	<0.050	0.050	12/11/2020	ND	1.85	92.4	2.00	7.75	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	1.92	95.8	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.47	91.1	6.00	8.59	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/14/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2020	ND	244	122	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/11/2020	ND	235	118	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	12/11/2020	ND					
Surrogate: 1-Chlorooctane	84.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.6	% 42.2-15	6						

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Celey D. Keene



#### Analytical Results For:

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

Received: 12/10/2020 Reported: 12/14/2020

EMERALD 20 PWU #1H

Project Number: 3

Project Name:

BTEX 8021B

Project Location: DEVON - EDDY CO NM

Sampling Date: 12/10/2020

Sampling Type: Soil
Sampling Condition: \*\* (See Notes)

Sample Received By: Tamara Oldaker

#### Sample ID: S - 9 E - SIDE (H003237-03)

DILX GOZID	ilig/	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	1.93	96.6	2.00	8.05	
Toluene*	<0.050	0.050	12/11/2020	ND	1.85	92.4	2.00	7.75	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	1.92	95.8	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.47	91.1	6.00	8.59	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/14/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2020	ND	244	122	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/11/2020	ND	235	118	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	12/11/2020	ND					
Surrogate: 1-Chlorooctane	87.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	82.2	% 42.2-15	6						

Analyzed By: MS

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



Tamara Oldaker

Sample Received By:

#### Analytical Results For:

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

Received: 12/10/2020 Sampling Date: 12/10/2020

Reported: 12/14/2020 Sampling Type: Soil
Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)

Project Number: 3

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 9 E - BOTTOM (H003237-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	1.93	96.6	2.00	8.05	
Toluene*	<0.050	0.050	12/11/2020	ND	1.85	92.4	2.00	7.75	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	1.92	95.8	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.47	91.1	6.00	8.59	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/14/2020	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2020	ND	248	124	200	0.114	
DRO >C10-C28*	<10.0	10.0	12/12/2020	ND	241	120	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	12/12/2020	ND					
Surrogate: 1-Chlorooctane	85.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.9	% 42.2-15	6						

#### Cardinal Laboratories \*=Accredited Analyte

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#### Analytical Results For:

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

Received: 12/10/2020 Sampling Date: 12/10/2020

Reported: 12/14/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes) Sample Received By: Project Number: Tamara Oldaker

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 22 N - SIDE (H003237-05)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	1.93	96.6	2.00	8.05	
Toluene*	<0.050	0.050	12/11/2020	ND	1.85	92.4	2.00	7.75	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	1.92	95.8	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.47	91.1	6.00	8.59	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/14/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2020	ND	248	124	200	0.114	
DRO >C10-C28*	<10.0	10.0	12/12/2020	ND	241	120	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	12/12/2020	ND					
Surrogate: 1-Chlorooctane	91.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.6	% 42.2-15	6						

#### Cardinal Laboratories \*=Accredited Analyte

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#### Analytical Results For:

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

Received: 12/10/2020 Sampling Date: 12/10/2020

Reported: 12/14/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes) Sample Received By: Project Number: 3 Tamara Oldaker

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 22 N - BOTTOM (H003237-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	1.93	96.6	2.00	8.05	
Toluene*	<0.050	0.050	12/11/2020	ND	1.85	92.4	2.00	7.75	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	1.92	95.8	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.47	91.1	6.00	8.59	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/14/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2020	ND	248	124	200	0.114	
DRO >C10-C28*	<10.0	10.0	12/12/2020	ND	241	120	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	12/12/2020	ND					
Surrogate: 1-Chlorooctane	84.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.3	% 42.2-15	6						

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#### Analytical Results For:

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

Received: 12/10/2020 Sampling Date: 12/10/2020

Reported: 12/14/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)
Project Number: 3 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: DEVON - EDDY CO NM

mg/kg

#### Sample ID: S - 24 N - SIDE (H003237-07)

BTEX 8021B

DILX GOZID	mg/	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	1.93	96.6	2.00	8.05	
Toluene*	<0.050	0.050	12/11/2020	ND	1.85	92.4	2.00	7.75	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	1.92	95.8	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.47	91.1	6.00	8.59	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/14/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2020	ND	248	124	200	0.114	
DRO >C10-C28*	<10.0	10.0	12/12/2020	ND	241	120	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	12/12/2020	ND					
Surrogate: 1-Chlorooctane	88.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.4	% 42.2-15	6						

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#### Analytical Results For:

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

Received: 12/10/2020 Sampling Date: 12/10/2020

Reported: 12/14/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)
Project Number: 3 Sample Received By: Tamara Oldaker

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 24 N - BOTTOM (H003237-08)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	2.02	101	2.00	5.96	
Toluene*	<0.050	0.050	12/11/2020	ND	1.92	96.0	2.00	5.88	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	2.01	101	2.00	5.69	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.76	96.0	6.00	5.29	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/14/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2020	ND	248	124	200	0.114	
DRO >C10-C28*	<10.0	10.0	12/12/2020	ND	241	120	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	12/12/2020	ND					
Surrogate: 1-Chlorooctane	80.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	75.7	% 42.2-15	6						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



Tamara Oldaker

Sample Received By:

#### Analytical Results For:

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

Received: 12/10/2020 Sampling Date: 12/10/2020

Reported: 12/14/2020 Sampling Type: Soil
Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)

Project Number: 3

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 25 E - SIDE (H003237-09)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	2.02	101	2.00	5.96	
Toluene*	<0.050	0.050	12/11/2020	ND	1.92	96.0	2.00	5.88	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	2.01	101	2.00	5.69	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.76	96.0	6.00	5.29	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/14/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2020	ND	248	124	200	0.114	
DRO >C10-C28*	<10.0	10.0	12/12/2020	ND	241	120	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	12/12/2020	ND					
Surrogate: 1-Chlorooctane	85.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.7	% 42.2-15	6						

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#### Analytical Results For:

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

Received: 12/10/2020 Sampling Date: 12/10/2020 Reported: 12/14/2020 Sampling Type: Soil

Project Name: EMERALD 20 PWU #1H Sampling Condition: \*\* (See Notes)

Sample Received By: Project Number: Tamara Oldaker

Project Location: DEVON - EDDY CO NM

#### Sample ID: S - 25 E - BOTTOM (H003237-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	2.02	101	2.00	5.96	
Toluene*	<0.050	0.050	12/11/2020	ND	1.92	96.0	2.00	5.88	
Ethylbenzene*	< 0.050	0.050	12/11/2020	ND	2.01	101	2.00	5.69	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.76	96.0	6.00	5.29	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/14/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2020	ND	248	124	200	0.114	
DRO >C10-C28*	<10.0	10.0	12/12/2020	ND	241	120	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	12/12/2020	ND					
Surrogate: 1-Chlorooctane	92.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.6	% 42.2-15	6						

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#### Analytical Results For:

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

Received: 12/10/2020

12/10/2020 Sampling Date: 12/14/2020 Sampling Type:

Analyzed By: MS

te: 12/10/2020 be: Soil

Reported: Project Name:

BTEX 8021B

EMERALD 20 PWU #1H

Sampling Type: Soi Sampling Condition: \*\*

Sample Received By:

\*\* (See Notes)
Tamara Oldaker

Project Number:

3

mg/kg

Project Location: DEVON - EDDY CO NM

Sample ID: S - 26 S - SIDE (H003237-11)

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	2.02	101	2.00	5.96	
Toluene*	<0.050	0.050	12/11/2020	ND	1.92	96.0	2.00	5.88	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	2.01	101	2.00	5.69	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.76	96.0	6.00	5.29	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/14/2020	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2020	ND	248	124	200	0.114	
DRO >C10-C28*	<10.0	10.0	12/12/2020	ND	241	120	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	12/12/2020	ND					
Surrogate: 1-Chlorooctane	84.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.8	% 42.2-15	6						

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#### Analytical Results For:

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

Received: 12/10/2020 Reported: 12/14/2020

12/14/2020

Project Name: EMERALD 20 PWU #1H Project Number: 3

Project Location: DEVON - EDDY CO NM

Sampling Date: 12/10/2020

Sampling Condition:

Sampling Type: Soil

Sample Received By: Tamara Oldaker

\*\* (See Notes)

#### Sample ID: S - 26 S - BOTTOM (H003237-12)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	2.02	101	2.00	5.96	
Toluene*	<0.050	0.050	12/11/2020	ND	1.92	96.0	2.00	5.88	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	2.01	101	2.00	5.69	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.76	96.0	6.00	5.29	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/14/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2020	ND	248	124	200	0.114	
DRO >C10-C28*	<10.0	10.0	12/12/2020	ND	241	120	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	12/12/2020	ND					
Surrogate: 1-Chlorooctane	86.8	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	80.4	% 42.2-15	6						

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#### **Notes and Definitions**

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

Chloride by SM4500Cl-B does not require samples be received at or below 6°C
 Samples reported on an as received basis (wet) unless otherwise noted on report

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

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# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	P Facinite						T		L	31L	L TO					AN	ALY	SIS	KEQ	UES			_
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city: Hobb	State: NM	Zip	: '	500	280					140	Miles )	-											
Phone #: 964-	-7740 Fax#:		^					ddre	ss:														
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roject Name: E	merold 20 PNU	14	1				S	tate:			Zip:												
Project Location:	Eddy Co NM						P	hone	#:														
Sampler Name:	Robert Carper						F	ax #:		_	2445	INIC	-										
FOR LAB USE ONLY	1	T.			MA	TRIX	-	PR	ESE	RV.	SAMP	LING			1								
Lab I.D.	Sample I.D.	G)RAB OR (C)ON	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	HUL	57 EX		Chlan							-
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PLEASE NOTE: Liability and	d Damages. Cardinal's liability and client's exclusive remedy to	or any cl	aim aris	sing who	ether bas ess mad	ed in cont e in writing	tract o	r tort; sh received	all be by Ca	imited irdinal	to the amount par within 30 days after	r completion of	f the applic	able									
service. In no event shall Ca	ng those for negligence and any other cause whatsoever shall ardinal be liable for incidental or consequental damages, inclu- ng out of or related to the performance of services hersunder b	ding with	nout lim	ardless	of wheth	interruption er such c	ons, lo claim is	ss of us based	e, or lo upon a	ny of t	he above stated re	asons or other	wise.			TI No. 1	Add'l E	Phone :	н-				_
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Page 16 of 16

# CARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(575) 393-2326 FAX (575) 393-24		BILL TO	ANALYSIS REQUEST
Company Name: Prina Environmenta		P.O. #: 20715 188	
Project Manager: Chvis Jones	sk 500	Company: Devon	
Address: 160/ N. Turner		Attn: Wes Mathews	
	Zip: 88 280		
Phone #: 964-7740 Fax #:		Address:	
Project #: 3 Project Owne	r:	City:	
Project Name: Emerdd 20 PWU	14	State: Zip:	
Project Location: Eddy Co JM		Phone #:	
Sampler Name: Rubbert Carple	I MATRIX	Fax #:  PRESERV. SAMPLING	
FOR LAB USE ONLY		PRESERV.	
Lab I.D. Sample I.D.  H003287  11 5-265-5ide 12 5-365-35fm	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	0 0 4 = 0	TIME HALL
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analyses. All claims including those for negligence and any other cause whatsoever shall	or at a total and business interruption	one loss of use, or loss of profits incurred by client,	t, its subsidiaries,
service. In no event shall Cardinal be liable for incidental or consequental damages, exer- affiliates or successors arising out of or related to the performance of services hereunder by	y Cardinal, regardless of whether such c	laim is based upon any of the above stated reason	lorbal Result:
Relinquished By: Date: 12-10-3	Received by.	////// AI	Il Results are emailed. Please provide Email address:
Time: 412	VILLANI	( Malay ox	
Refinquished by: Date: 145	Received By:	R	REMARKS:
Time:			
Delivered By: (Circle One) Observed Temp. °	C /37 Sample Cor	idition -	urnaround Time: Standard Bacteria (only) Sample Condition  Rush Cool Intact Observed Temp. °C
Delivered By: (Circle One) Observed Temp.	Cool Inta	ct (Initials)	hermometer ID #113



May 06, 2021

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

RE: EMERALD PWV 20

Enclosed are the results of analyses for samples received by the laboratory on 05/04/21 8:20.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

PIMA ENVIROMENTAL TOM BYNUM 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/04/2021 Reported: 05/06/2021

Project Name: EMERALD PWV 20
Project Number: NONE GIVEN
Project Location: DEVON

Sampling Date: 05/03/2021

Sampling Type: Soil

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

#### Sample ID: S 2 - 2' (H211127-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2021	ND	2.03	102	2.00	9.39	
Toluene*	<0.050	0.050	05/04/2021	ND	1.98	98.8	2.00	9.71	
Ethylbenzene*	<0.050	0.050	05/04/2021	ND	1.92	95.8	2.00	10.1	
Total Xylenes*	<0.150	0.150	05/04/2021	ND	5.67	94.5	6.00	10.1	
Total BTEX	<0.300	0.300	05/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2021	ND	197	98.3	200	1.39	
DRO >C10-C28*	<10.0	10.0	05/05/2021	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/05/2021	ND					
Surrogate: 1-Chlorooctane	80.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.6	% 38.9-14	2						

4 -- - I -- - - I D- -- MC

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Celey D. Kreene



#### Analytical Results For:

PIMA ENVIROMENTAL TOM BYNUM 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

 Received:
 05/04/2021
 Sampling Date:
 05/03/2021

 Reported:
 05/06/2021
 Sampling Type:
 Soil

Project Name: EMERALD PWV 20 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: DEVON

mg/kg

#### Sample ID: S 3 - 2' (H211127-02)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2021	ND	2.03	102	2.00	9.39	
Toluene*	<0.050	0.050	05/04/2021	ND	1.98	98.8	2.00	9.71	
Ethylbenzene*	<0.050	0.050	05/04/2021	ND	1.92	95.8	2.00	10.1	
Total Xylenes*	<0.150	0.150	05/04/2021	ND	5.67	94.5	6.00	10.1	
Total BTEX	<0.300	0.300	05/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2021	ND	197	98.3	200	1.39	
DRO >C10-C28*	<10.0	10.0	05/05/2021	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/05/2021	ND					
Surrogate: 1-Chlorooctane	84.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.9	% 38.9-14	2						

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Celey D. Keene



#### Analytical Results For:

PIMA ENVIROMENTAL TOM BYNUM 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/04/2021 Sampling Date: 05/03/2021

Reported: 05/06/2021 Sampling Type: Soil

Project Name: **EMERALD PWV 20** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **DEVON** 

#### Sample ID: S 4 - 2' (H211127-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	nzene* <0.050 0.050		05/05/2021	ND	2.03	102	2.00	9.39	
Toluene*	<0.050	0.050	05/05/2021	ND	1.98	98.8	2.00	9.71	
Ethylbenzene*	<0.050	0.050	05/05/2021	ND	1.92	95.8	2.00	10.1	
Total Xylenes*	<0.150	0.150	05/05/2021	ND	5.67	94.5	6.00	10.1	
Total BTEX	<0.300	0.300	05/05/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2021	ND	197	98.3	200	1.39	
DRO >C10-C28*	<10.0	10.0	05/05/2021	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/05/2021	ND					
Surrogate: 1-Chlorooctane	81.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.4	% 38.9-14	2						

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05/03/2021

Soil

#### Analytical Results For:

PIMA ENVIROMENTAL TOM BYNUM 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/04/2021 Reported: 05/06/2021

Sampling Type: Project Name: **EMERALD PWV 20** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Sampling Date:

Project Location: **DEVON** 

#### Sample ID: S 7 - 2' (H211127-04)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2021	ND	2.01	101	2.00	10.9	
Toluene*	<0.050	0.050	05/05/2021	ND	1.95	97.6	2.00	10.7	
Ethylbenzene*	<0.050	0.050	05/05/2021	ND	1.92	96.0	2.00	9.65	
Total Xylenes*	<0.150	0.150	05/05/2021	ND	5.72	95.3	6.00	9.45	
Total BTEX	<0.300	0.300	05/05/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2021	ND	197	98.3	200	1.39	
DRO >C10-C28*	<10.0	10.0	05/05/2021	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/05/2021	ND					
Surrogate: 1-Chlorooctane	83.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.2	% 38.9-14	2						

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#### Analytical Results For:

PIMA ENVIROMENTAL TOM BYNUM 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/04/2021 Reported: 05/06/2021

Project Name: EMERALD PWV 20 Sampling Condition: Project Number: NONE GIVEN Sample Received By:

Project Location: DEVON

Sampling Date: 05/03/2021 Sampling Type: Soil

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

#### Sample ID: S 8 - 2' (H211127-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2021	ND	2.01	101	2.00	10.9	
Toluene*	<0.050	0.050	05/05/2021	ND	1.95	97.6	2.00	10.7	
Ethylbenzene*	<0.050	0.050	05/05/2021	ND	1.92	96.0	2.00	9.65	
Total Xylenes*	<0.150	0.150	05/05/2021	ND	5.72	95.3	6.00	9.45	
Total BTEX	<0.300	0.300	05/05/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2021	ND	197	98.3	200	1.39	
DRO >C10-C28*	<10.0	10.0	05/05/2021	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/05/2021	ND					
Surrogate: 1-Chlorooctane	82.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.6	% 38.9-14	22						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



#### Analytical Results For:

PIMA ENVIROMENTAL TOM BYNUM 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:

Received: 05/04/2021 Sampling Date: 05/03/2021

Reported: 05/06/2021 Sampling Type: Soil

Project Name: **EMERALD PWV 20** Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: **DEVON** 

#### Sample ID: S 10 - 2' (H211127-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	zene* <0.050 0.050		05/05/2021	ND	2.01	101	2.00	10.9	
Toluene*	<0.050	0.050	05/05/2021	ND	1.95	97.6	2.00	10.7	
Ethylbenzene*	<0.050	0.050	05/05/2021	ND	1.92	96.0	2.00	9.65	
Total Xylenes*	<0.150	0.150	05/05/2021	ND	5.72	95.3	6.00	9.45	
Total BTEX	<0.300	0.300	05/05/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2021	ND	197	98.3	200	1.39	
DRO >C10-C28*	<10.0	10.0	05/05/2021	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/05/2021	ND					
Surrogate: 1-Chlorooctane	79.8 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	79.4 9	% 38.9-14	2						

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Celeg D. Freene



#### **Notes and Definitions**

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

QR-04 The RPD for the BS/BSD was outside of historical limits.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Freene

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Released to Imaging: 7/29/2021 2:52:42 PM

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

Company Name:	D. 121MA									-	811	LL TO					A	NAL	YSIS	RE	QUE	ST		
Project Manager:	Devon Energy /PIMA: Tom Bynum						_	P.C	). #:															
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FOR LAB USE ONLY		₫.	ı		1417	1	Î 🗆					97.11.11		V	10					- 5				
Lab I.D. <i>H2U12</i> 7	Sample I.D.	S (G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	8751	MAL	20								
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

affiliates or successors arising out of or related to the perfo	rmance of services horounder by Cardinst, re	egardless of whether such claim is based to	spon any or the above scaled re-	discription of certain wise.
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- " - '- '- '- '	Observed Town 90	2 Sample Condition	CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition
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	0,0	Cool intact	(Initials)	
Complex UDC Due Other	Corrected Temp. °C	Yes Yes	7	Thermometer ID #113 Yes Yes
Sampler - UPS - Bus - Other:	Corrected Temp. C			Correction Factor None No Corrected Temp. °C
		No No	1 1	Contection 7 actor from

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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Incident ID	NMLB1113050834
District RP	2RP-779
Facility ID	
Application ID	

### Closure

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

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

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
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accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.
Printed Name: Tom Bynum Title: EHS Consultant
Signature:         Tom Bynum         Date:         10-21-20           email:         tom.bynum@dvn.com         Telephone:         575-748-2663
email: tom.bynum@dvn.com Telephone: 575-748-2663
OCD Only
Received by: Robert Hamlet Date: 7/29/2021
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Robert Hamlet Date: 7/29/2021
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Action 32384

#### **CONDITIONS**

Operator:	OGRID:
Pima Environmental Services, LLC	329999
1601 N. Turner	Action Number:
Hobbs, NM 88240	32384
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Cre	eated By	Condition	Condition Date
rha	ımlet	We have received your closure report and final C-141 for Incident #NMLB1113050834 EMERALD PWU 20 #1H, thank you. This closure is approved.	7/29/2021