

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

January 13, 2021

Re: Remediation Activities and Closure Report

Turquoise PWU 27 #1H API No. 30-015-38333

GPS: Latitude 32.6362 Longitude -104.0703

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

Eddy County, NM

NMOCD Ref. ID. NAB1908046533, NRM2030058093

Dear Mr. Bratcher,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment, site remediation and has prepared this Closure Report for two produced water releases that occurred at the Turquoise PWU 27 #1H (Turquoise). The first initial C-141 was submitted on March 14, 2019 (Appendix C). This incident was assigned 2RP-5316, Incident ID NAB1908046533, by the New Mexico Oil Conservation Division (NMOCD). The second C-141 was submitted on October 21, 2020 and was assigned Incident ID NRM2030058093, by the NMOCD.

Site Characterization

The Turquoise is located approximately eighteen (18) miles northeast of Carlsbad, NM. This spill site is in Unit D, Section 27, Township 19S, Range 29E, Latitude 32.6362, Longitude -104.0703, Eddy County, NM. Figure 4 references a location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation-Older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of High Plains region (middle to lower Pleistocene)-includes scattered lacustrine, playa, and alluvial deposits of the Tahoka, Double Tanks, Tule, Blackwater Draw, and Gatuna Formations, the latter of which be Pliocene at base; outcrops, however are basically Quaternary deposits (Qoa). The soil in this area is made up of Kimbrough-Stegall loams, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a high potential for karst geology to be present in the area of the Turquoise (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 60 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 65 feet BGS. The closest waterway and is a Playa located approximately 4.57 miles to the southeast of this location. See Appendix A for the referenced Surface Water Map.

Table 1 NMAC and Closure Criteria 19.15.29									
Depth to		Constituent & Limits							
Groundwater (Appendix A)	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene				
60'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg				
If the release occurred within any of the following areas, the responsible party would treat the release as if the groundwater was less than 50 feet per Rule 19.15.29									
	Yes	No							
Within 300 feet of significant waterc		X							
Within <u>200</u> feet of from the ordinary		X							
Within <u>300</u> feet fr hospital, institutio		x							

Within <u>500</u> feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock water		х
purposes		
Within 1000 feet of any freshwater well or spring		X
Within incorporated municipal boundaries or within a defined municipal freshwater well field		x
Within 300 feet of a wetlands		X
Within the area overlying a subsurface mine		X
Within an unstable area (Karst)	X	
Within a 100-year floodplain		X

Reference Figure 2 for a TOPO Map.

Release Information

NAB1908046533: On March 4, 2019, the water tank overflowed due to the transfer pump going down on high discharge pressure, causing a release of 28.39 barrels (bbls) of produced water into the engineer steel and poly-lined containment. A vac truck was dispatched and recovered 25 bbls.

NRM2030058093: On October 7, 2020, a pin hole developed in the water fill line that runs from the separator vessels to the tanks. This hole resulted in the release of 19.84 bbls of produced water, all fluids were contained in the engineered steel and poly-lined containment. A vac truck was dispatched and recovered the 19.84 bbls of fluids.

Site Assessment and Soil Sampling Results

On July 28, 2020, Pima Environmental conducted a site assessment and obtained soil samples. The laboratory results of this sampling event can be found in the following data table.

7-28-20 Soil Sample Results

Sample Date 7-28-20			NM Approved Laboratory Results									
Sample ID	Depth (BG5)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg				
N. Composite	0	ND	ND	ND	1200	1600	2800	2900				
S. Composite	0	ND	ND	ND	12	ND	12	1000				
E. Composite	0	ND	ND	ND	21	51	72	9800				
W. Composite	0	ND	ND	ND	1100	1000	2100	ND				
BG-1	0	ND-	ND	ND	ND	ND	ND	ND				
BG-2	0	ND	ND	ND	ND	ND	ND	ND				
BG-3	0	ND	ND	ND	ND	ND	ND	ND				

Remediation Activities

On September 17, 2020, Pima mobilized personnel and equipment to conduct remedial activities. The area outside the containment was excavated to a depth of 0.5-foot below grade surface (BGS) and 3-feet horizontally away from the containment wall. Sidewall and bottom confirmation samples were obtained, and the laboratory results can be found in the following data table.

9-21-20 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (High Karst-Standards are <50')										
Sample Date 9-21-2		NM Approved Laboratory Results								
Sample ID	Depth (BGS)	BTEX mg/kg	Renzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg		
S-1 N. Bottom Composite	0.5	+	-	ND	ND	ND	ND.	48		
S-2 N. Sidewall Comp	0.5	+	-	ND	ND	ND	ND	112		
S-3 W. Bottom Comp	0.5	+	1	ND	ND	ND	ND	163		
S-4 W. Sidewall Comp	0.5	+		ND	ND	ND	ND			
S-5 S. Bottom Comp	0.5	+	-	E-	-			64		
S-6 S. Sidewall Comp	0.5	+	-	TE:	-	- AE1	100	48		
S-7 E. Bottom Comp	0.5	+	-	TETT	-	100	- der	80		
S-8 E. Sidewall Comp	0.5	+	1787	16		7 -7	1 - 1	160		

ND- Analyte Not Detected -- Analyte Not Tested

Complete Laboratory results can be found attached in Appendix F.

The final sample results were below NMOCD Closure Criteria 19.15.29 NMAC. Based on these findings, no further remediation activities were needed at this location. The excavation was backfilled with clean, like material, the area was then contoured to match the surrounding area.

On December 20, 2020, Pima returned to this site and conducted a liner inspection. The inspection found no loss of integrity in the liner. A liner inspection for and photos of the liner are attached in Appendix E.

Closure Request

After careful review, Pima requests that incidents, NAB1908046533 and NRM2030058093, 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

Appendices:

Appendix A- Referenced Water Surveys

Appendix B- Soil Survey and Geological Data

Appendix C- C-141's

Appendix D- Photographic Documentation

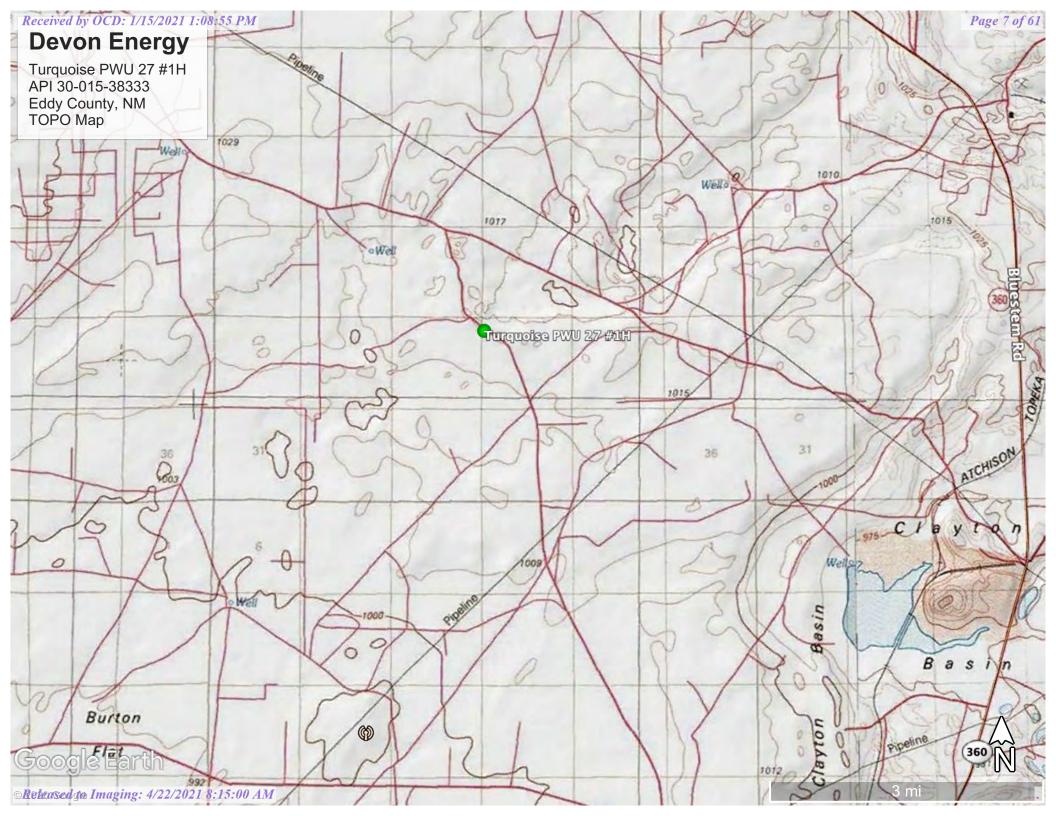
Appendix E- Liner Inspection Form and Photos

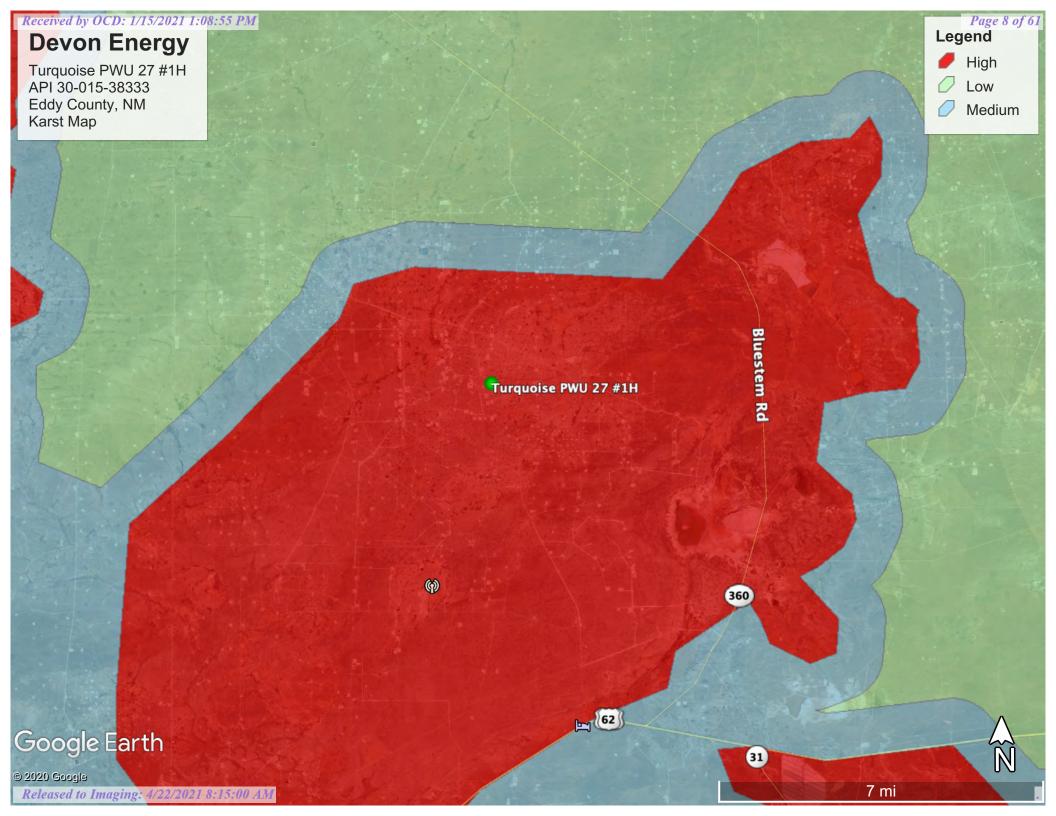
Appendix F- Laboratory Reports

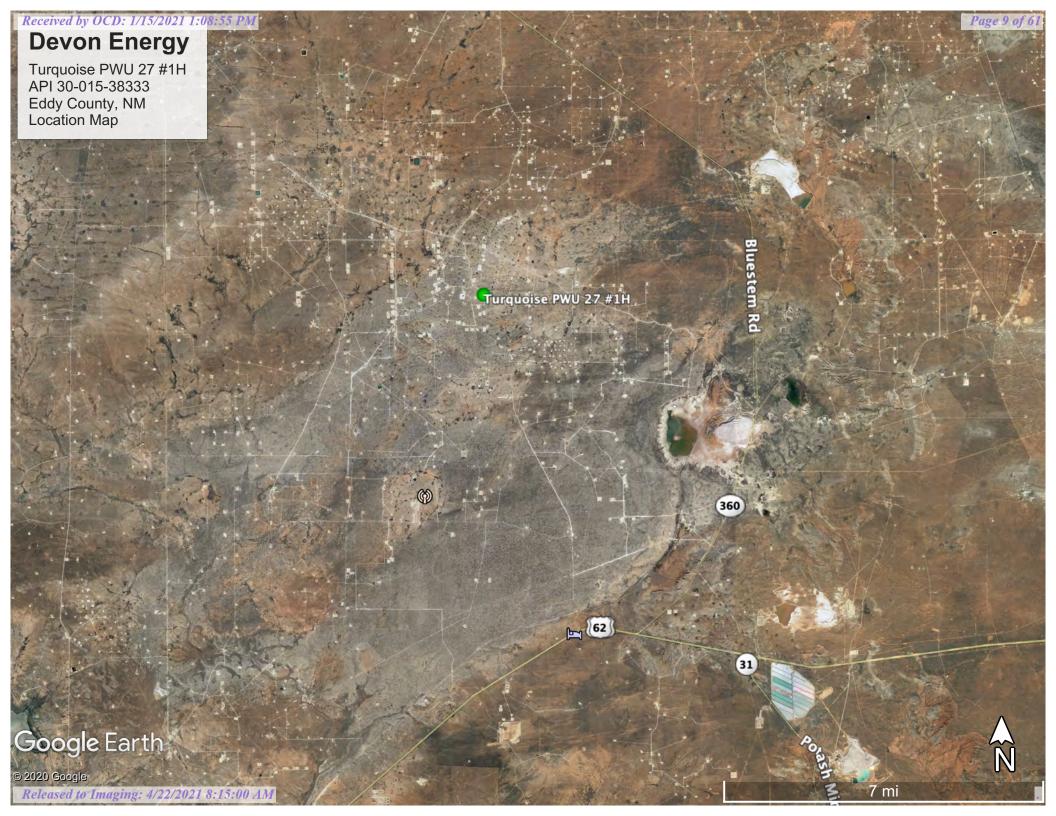


Figures: 1-Site Map 2-TOPO Map 3- Karst Map 4- Location Map











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

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

closed) (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 Se	ec '	Tws	Rng	X	Y	DistanceDep	thWellDep	thWater Co	lumn
<u>CP 00741</u>		CP	ED	1	3	2 3	4	19S	29E	588030	3609533*	2007	230	60	170
<u>CP 00681</u>		CP	ED	1	1	3 3	4	19S	29E	587230	3609127*	2243			

Average Depth to Water:

60 feet

Minimum Depth:

60 feet

Maximum Depth:

60 feet

Record Count: 2

<u>UTMNAD83</u> Radius Search (in meters):

Easting (X): 587219.65

Northing (Y): 3611370

Radius: 3000

*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.

8/6/20 9:48 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Received by OCD: 1/15/2021 1:08:55 PM



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number CP 00741 **Q64 Q16 Q4 Sec Tws Rng**1 3 2 34 19S 29E

X Y

588030 3609533*

Driller License: 1107 **Driller Company:** DUBOSE DRILLING, INC.

Driller Name: DUBOSE, BILL M. JR.

Drill Start Date: 04/17/1989 **Drill Finish Date:** 04/20/1989 **Plug Date:**

Log File Date:04/24/1989PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield:20 GPMCasing Size:6.63Depth Well:230 feetDepth Water:60 feet

Water Bearing Stratifications: Top Bottom Description
60 230 Other/Unknown

Casing Perforations: Top Bottom

170 230

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.

8/6/20 9:48 AM POINT OF DIVERSION SUMMARY

Released to Imaging: 4/22/2021 8:15:00 AM



^{*}UTM location was derived from PLSS - see Help

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater

Geographic Area: United States

GO

- Click to hide News Bulletins
- Introducing The Next Generation of USGS Water Data for the Nation
- Full_News 🔕

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 323900104052901

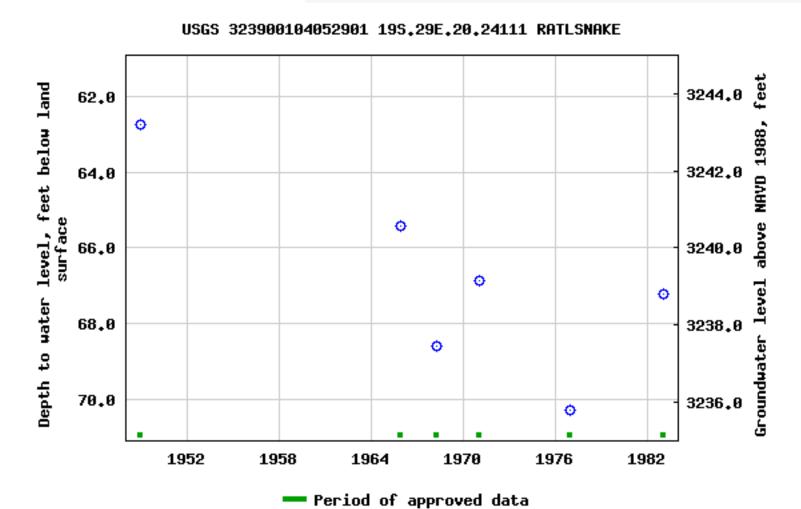
Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323900104052901 19S.29E.20.24111 RATLSNAKE

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°39'00", Longitude 104°05'29" NAD27 Land-surface elevation 3,306 feet above NAVD88 This well is completed in the Rustler Formation (312RSLR) local aquifer. Available data for this site Groundwater: Field measurements • **Output formats** Table of data Tab-separated data Graph_of_data Reselect period

GO



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

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

Data Tips Explanation of terms Subscribe for system changes <u>News</u>

FOIA Plug-Ins Policies and Notices Accessibility Privacy

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

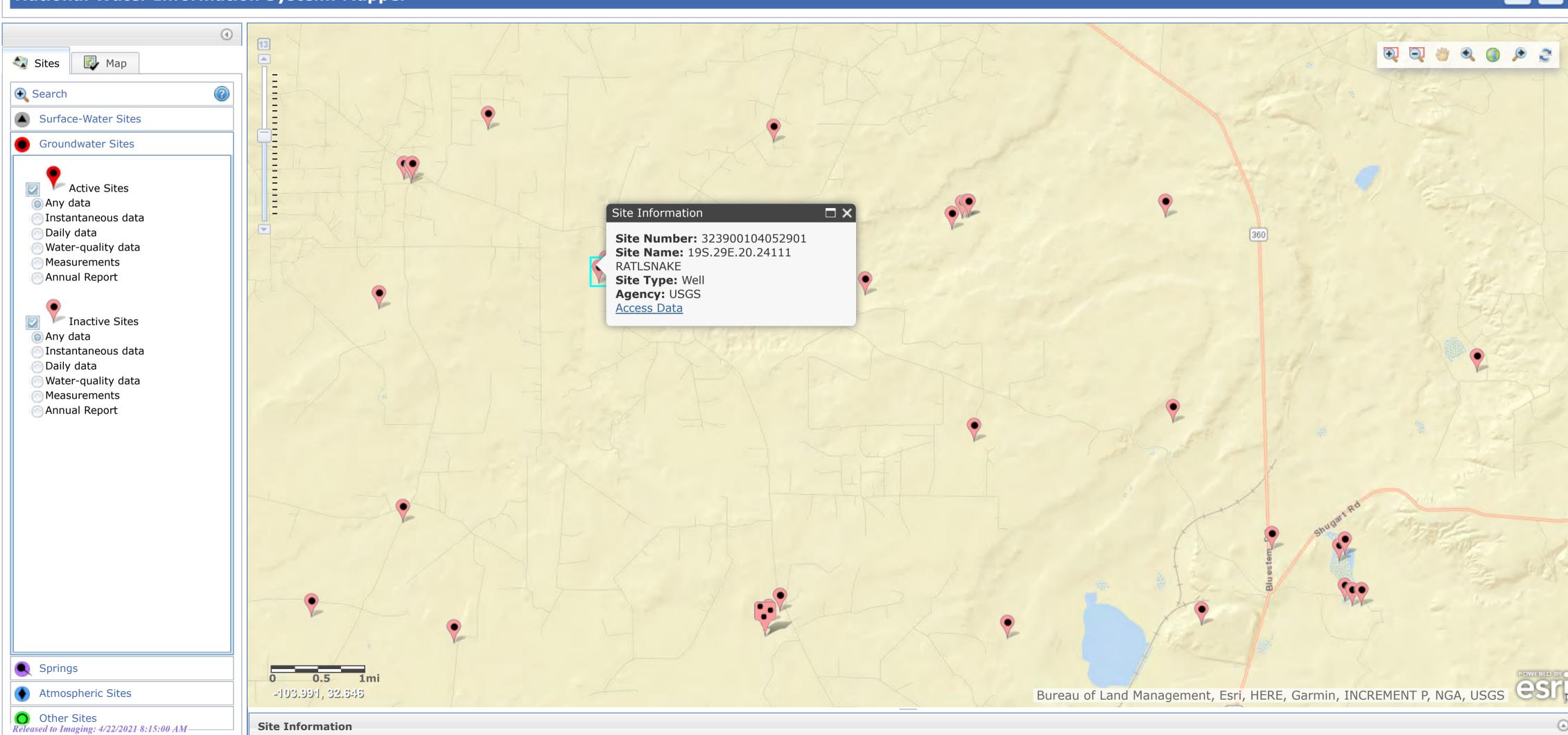
Title: Groundwater for USA: Water Levels

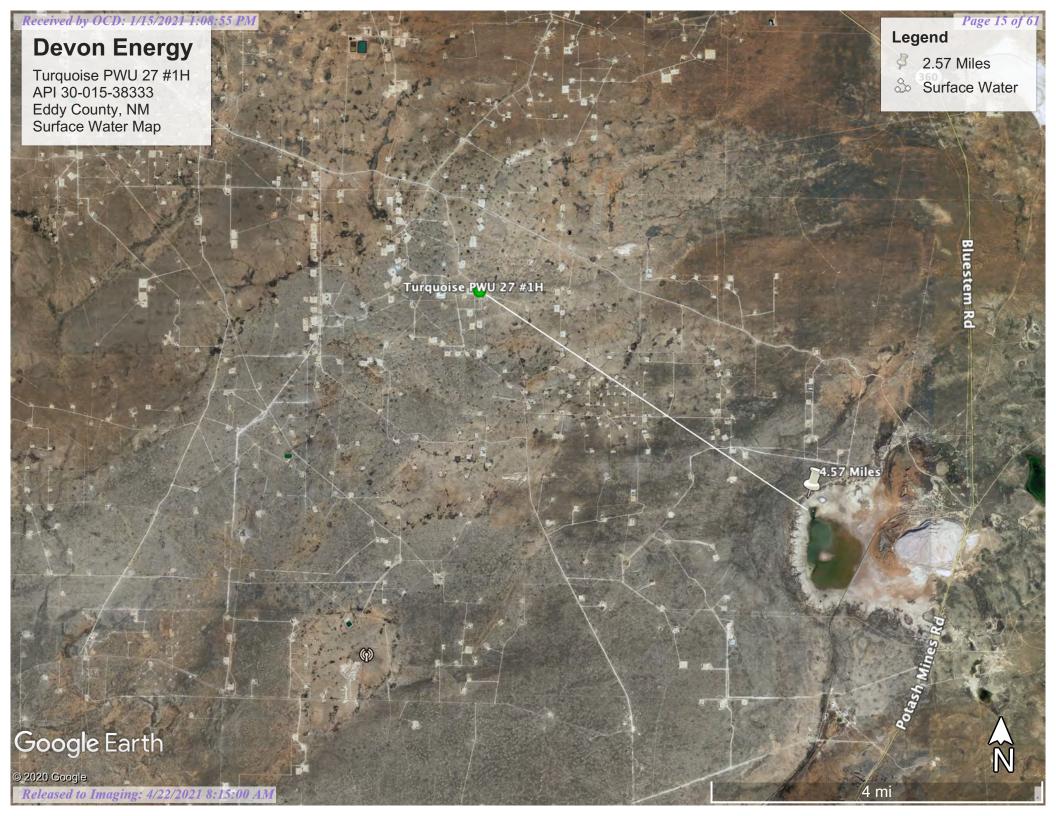
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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

Page Last Modified: 2020-08-06 11:51:52 EDT 0.7 0.58 nadww01

USA.gov







Appendix B Soil Survey & Geological Data: FEMA Flood Map

Eddy Area, New Mexico

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

Map Unit Setting

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

Mean annual precipitation: 8 to 16 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

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

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Kimbrough

Setting

Landform: Alluvial fans, plains

Landform position (three-dimensional): Rise, talf

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

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

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 8 to 20 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

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

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

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

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

mmhos/cm)

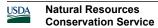
Sodium adsorption ratio, maximum: 1.0

Available water capacity: Very low (about 1.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s



Hydrologic Soil Group: D

Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

Description of Stegall

Setting

Landform: Alluvial fans, plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

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

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained Runoff class: Medium

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

moderately high (0.01 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

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

mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Low (about 4.8 inches)

Interpretive groups

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

Hydrologic Soil Group: C

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Minor Components

Simona

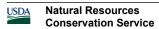
Percent of map unit: 5 percent

Ecological site: R042XC002NM - Shallow Sandy

Hydric soil rating: No

Data Source Information

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



National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall

> 17.5 Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature

20.2 Cross Sections with 1% Annual Chance

Digital Data Available No Digital Data Available Unmapped

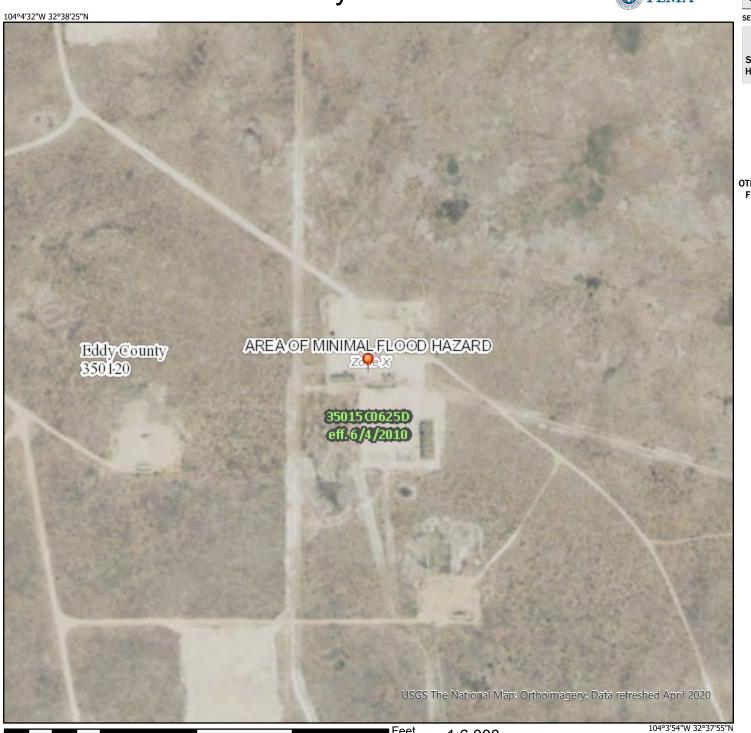
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

MAP PANELS

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/6/2020 at 12:24 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.



2,000



Appendix C C-141's: Initial Final District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party			OGRID	ID					
Contact Name			Contact Te	Telephone					
Contact email			Incident #	ident # (assigned by OCD)					
Contact mailing adda	ess								
		Location	of Release So	ource					
Latitude Longitude									
		(NAD 83 in dec	cimal degrees to 5 decim	nal places)					
Site Name			Site Type						
Date Release Discove	ered		API# (if app	plicable)					
Unit Letter Section	on Township	Range	Coun	ntv					
Ollit Letter Section	on rownship	Kange	Coun	County					
Surface Owner: St	ate Federal Ti	ribal Private (l	Vame:)				
		Nature and	d Volume of I	Release					
Ma	aterial(s) Released (Select a	ll that apply and attach	calculations or specific	justification for the	volumes provided below)				
Crude Oil	Volume Release		•	Volume Recovered (bbls)					
Produced Water	Volume Release	ed (bbls)		Volume Recovered (bbls)					
		tion of total dissolwater >10,000 mg		☐ Yes ☐ No					
Condensate	Volume Release		y	Volume Recovered (bbls)					
☐ Natural Gas	Volume Release	ed (Mcf)		Volume Recovered (Mcf)					
Other (describe)	Volume/Weight	Released (provide	e units)	Volume/Weight Recovered (provide units)					
Cause of Release									

Received by OCD: 1/15/2021 1:08:55 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Daga	22	01	26
ruge	44	UJ	_U.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ☐ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
☐ The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:	Title:
Signature: Kendra	DeHoyos Date:
email:	Telephone:
OCD Only Received by:	Date:

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?	60(ft bgs)				
Did this release impact groundwater or surface water?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No				
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No				
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No				
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No				
Are the lateral extents of the release overlying an unstable area such as karst geology?	⊠ Yes □ No				
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No				
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					
Characterization Report Checklist: Each of the following items must be included in the report.					
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release					
Boring or excavation logs					

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.

Photographs including date and GIS information

Laboratory data including chain of custody

Topographic/Aerial maps

Received by OCD: 1/15/2021 1:08:55 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	Page 24 of 61
Incident ID	NAB1908046533
District RP	2RP-5316
Facility ID	
Amplication ID	

Page 25 of 61

Incident ID	NAB1908046533
District RP	2RP-5316
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC			
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)			
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)		
□ Description of remediation activities			
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in		
Printed Name: Wesley Mathews	Title: Envrionmental Professional		
Signature: Wesley Mathews	Date: 1/13/2021		
Signature: Wesley Mathews email: Wesley.Mathews@dvn.com	Telephone:		
OCD Only			
Received by:	Date:		
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.		
Closure Approved by:	Date:		
Printed Name:	Title:		
			

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Release Notification

Responsible Party

Responsible Party (OGRID	OGRID		
Contact Name			Contact Te	Contact Telephone		
Contact emai	1			Incident #	(assigned by OCD))
Contact mail	ing address			1		
Location of Release Source						
Latitude			(NAD 83 in dec	Longitude _cimal degrees to 5 decim	nal places)	
Site Name				Site Type		
Date Release	Discovered			API# (if app	licable)	
Unit Letter	Section	Township	Range	Coun	ity	
Crude Oil	Material	Federal Tr	Nature and	l Volume of I		e volumes provided below)
Produced						,
	water	Volume Released (bbls) Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?		Volume Recovered (bbls) Yes No		
Condensa	te	Volume Released (bbls)			Volume Reco	overed (bbls)
Natural Gas Volume Released (Mcf)		Volume Reco	overed (Mcf)			
Other (des	Other (describe) Volume/Weight Released (provide units)		Volume/Weig	ght Recovered (provide units)		
Cause of Rela	ease					

Received by OCD: 1/15/2021 1:08:55 PM Form C-141 State of New Mexico Oil Conservation Division Page 2

	Tuge 27 0j
ident ID	
trict RP	

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	sible party consider this a major release?		
19.15.29.7(A) NMAC?			
☐ Yes ☐ No			
If YES, was immediate notice given to the OCD? By whom? To wh	om? When and by what means (phone email etc)?		
in 125, was infinediate notice given to the OCD. By whom: 10 wh	oni: When and by what means (phone, eman, etc).		
Initial Ro	esponse		
The responsible party must undertake the following actions immediately	y unless they could create a safety hazard that would result in injury		
☐ The source of the release has been stopped.			
☐ The impacted area has been secured to protect human health and	the environment.		
Released materials have been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.		
All free liquids and recoverable materials have been removed and	l managed appropriately.		
If all the actions described above have <u>not</u> been undertaken, explain v	vhy:		
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.			
I hereby certify that the information given above is true and complete to the			
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In			
addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name:	Title:		
Signature: Kendra DeHoyos			
organicale.			
email:	Telephone:		
OCD Only			
Received by:	Date:		

Spills In Lined Containment Measurements Of Standing Fluid		
Width(Ft)	20	
Depth(in.)	4	
Total Capacity without tank displacements (bbls)	53.43	
No. of 500 bbl Tanks In Standing Fluid	3	
No. of Other Tanks In Standing Fluid		
OD Of Other Tanks In Standing Fluid(feet)		
Total Volume of standing fluid accounting for tank displacement.	19.84	

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?	60(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?			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No		
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.			
Field data Data table of soil contaminant concentration data			
Depth to water determination			
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs			

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.

Photographs including date and GIS information

☐ Laboratory data including chain of custody

Topographic/Aerial maps

Received by OCD: 1/15/2021 1:08:55 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	Page 30 of C	51
Incident ID	NRM2030058093	
District RP		
Facility ID		
Application ID		

Page 31 of 61

Incident ID	NRM2030058093
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.		
A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos o must be notified 2 days prior to liner inspection)	f 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		
	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in	
OCD Only		
Received by: Chad Hensley	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by:	Date: 04/22/2021	
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced	



Appendix D: Photographic Documentation

Photographic Documentation Excavation



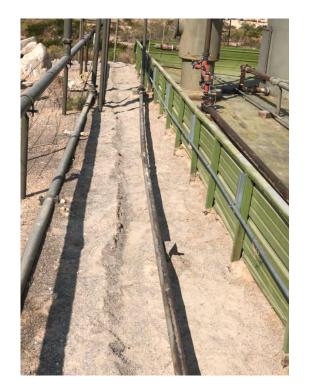














Completed









Appendix E: Liner Inspection and Photos



Liner Inspection Form

Site: Turquoise PWU 27 #1H

Lat/Long: 32.6362, -104.0709

NMOCD Incident ID

& Incident Date: 10-7-20 Incident ID NRM2030058093

Inspection Date: 12-29-20

Liner Type: Earthen w/liner Earthen no liner Polystar

Steel w/poly liner Steel w/spray epoxy No Liner

Other:

Visualization	Yes	No	Comments
Is there a tear in the liner?		X	
Are there holes in the liner?		X	
Is the liner retaining any fluids?		X	
Does the liner have integrity to contain a leak?		X	

Comments:

Inspector Name: Chris Jones Inspector Signature:

Liner Photos















Appendix F: Laboratory Reports



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

August 06, 2020

Chris Jones

Pima Environmental Services LLC 1601 N. Turner Ste 500

Hobbs, NM 88240

TEL: (575) 631-6977

FAX:

RE: Turquoise PWU 27 1H OrderNo.: 2007E42

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 7 sample(s) on 7/29/2020 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2007E42**Date Reported: **8/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: N-Composite

Project: Turquoise PWU 27 1H Collection Date: 7/28/2020 1:50:00 PM

Lab ID: 2007E42-001 **Matrix:** SOIL **Received Date:** 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	2900	150		mg/Kg	50	8/5/2020 10:18:03 AM	54155
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	1200	94		mg/Kg	10	8/4/2020 2:48:10 PM	54061
Motor Oil Range Organics (MRO)	1600	470		mg/Kg	10	8/4/2020 2:48:10 PM	54061
Surr: DNOP	0	30.4-154	S	%Rec	10	8/4/2020 2:48:10 PM	54061
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/2/2020 8:05:31 AM	54058
Surr: BFB	96.5	75.3-105		%Rec	1	8/2/2020 8:05:31 AM	54058
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	8/2/2020 8:05:31 AM	54058
Toluene	ND	0.050		mg/Kg	1	8/2/2020 8:05:31 AM	54058
Ethylbenzene	ND	0.050		mg/Kg	1	8/2/2020 8:05:31 AM	54058
Xylenes, Total	ND	0.099		mg/Kg	1	8/2/2020 8:05:31 AM	54058
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	8/2/2020 8:05:31 AM	54058

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 11

Lab Order **2007E42**Date Reported: **8/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC Client Sample ID: S-Comp

Project: Turquoise PWU 27 1H Collection Date: 7/28/2020 1:55:00 PM

Lab ID: 2007E42-002 **Matrix:** SOIL **Received Date:** 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	1000	60	mg/Kg	20	8/4/2020 6:40:55 PM	54155
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	12	9.2	mg/Kg	1	7/31/2020 11:20:26 PM	54061
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/31/2020 11:20:26 PM	54061
Surr: DNOP	52.9	30.4-154	%Rec	1	7/31/2020 11:20:26 PM	54061
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/2/2020 8:29:07 AM	54058
Surr: BFB	98.1	75.3-105	%Rec	1	8/2/2020 8:29:07 AM	54058
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	8/2/2020 8:29:07 AM	54058
Toluene	ND	0.046	mg/Kg	1	8/2/2020 8:29:07 AM	54058
Ethylbenzene	ND	0.046	mg/Kg	1	8/2/2020 8:29:07 AM	54058
Xylenes, Total	ND	0.092	mg/Kg	1	8/2/2020 8:29:07 AM	54058
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/2/2020 8:29:07 AM	54058

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

Page 2 of 11

Lab Order **2007E42**Date Reported: **8/6/2020**

Collection Date: 7/28/2020 2:00:00 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC Client Sample ID: E-Comp

Project: Turquoise PWU 27 1H

Lab ID: 2007E42-003 **Matrix:** SOIL **Received Date:** 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	9800	300	mg/Kg	100	8/5/2020 10:30:23 AM	54155
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	21	9.9	mg/Kg	1	8/1/2020 12:08:55 AM	54061
Motor Oil Range Organics (MRO)	51	49	mg/Kg	1	8/1/2020 12:08:55 AM	54061
Surr: DNOP	63.1	30.4-154	%Rec	1	8/1/2020 12:08:55 AM	54061
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/2/2020 8:52:39 AM	54058
Surr: BFB	98.1	75.3-105	%Rec	1	8/2/2020 8:52:39 AM	54058
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	8/2/2020 8:52:39 AM	54058
Toluene	ND	0.046	mg/Kg	1	8/2/2020 8:52:39 AM	54058
Ethylbenzene	ND	0.046	mg/Kg	1	8/2/2020 8:52:39 AM	54058
Xylenes, Total	ND	0.092	mg/Kg	1	8/2/2020 8:52:39 AM	54058
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	8/2/2020 8:52:39 AM	54058

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 3 of 11

Lab Order **2007E42**Date Reported: **8/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC Client Sample ID: W-Comp

Project: Turquoise PWU 27 1H Collection Date: 7/28/2020 2:05:00 PM

Lab ID: 2007E42-004 **Matrix:** SOIL **Received Date:** 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	ND	61		mg/Kg	20	8/4/2020 7:05:45 PM	54155
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	1100	180		mg/Kg	20	8/1/2020 12:33:04 AM	54061
Motor Oil Range Organics (MRO)	1000	900		mg/Kg	20	8/1/2020 12:33:04 AM	54061
Surr: DNOP	0	30.4-154	S	%Rec	20	8/1/2020 12:33:04 AM	54061
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/2/2020 9:16:17 AM	54058
Surr: BFB	96.7	75.3-105		%Rec	1	8/2/2020 9:16:17 AM	54058
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	8/2/2020 9:16:17 AM	54058
Toluene	ND	0.049		mg/Kg	1	8/2/2020 9:16:17 AM	54058
Ethylbenzene	ND	0.049		mg/Kg	1	8/2/2020 9:16:17 AM	54058
Xylenes, Total	ND	0.098		mg/Kg	1	8/2/2020 9:16:17 AM	54058
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	8/2/2020 9:16:17 AM	54058

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 4 of 11

2007E42-005

Surr: 4-Bromofluorobenzene

Lab ID:

Analytical Report

Lab Order **2007E42**Date Reported: **8/6/2020**

8/2/2020 9:39:57 AM

Received Date: 7/29/2020 9:30:00 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC Client Sample ID: BG-1

Project: Turquoise PWU 27 1H Collection Date: 7/28/2020 2:10:00 PM

Matrix: SOIL

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: **JMT** Chloride ND 60 mg/Kg 20 8/4/2020 7:18:09 PM 54155 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.0 mg/Kg 8/1/2020 12:57:17 AM 54061 ND Motor Oil Range Organics (MRO) 45 mg/Kg 1 8/1/2020 12:57:17 AM 54061 Surr: DNOP 8/1/2020 12:57:17 AM 45.4 30.4-154 %Rec 54061 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 8/2/2020 9:39:57 AM 54058 4.9 mg/Kg 1 Surr: BFB 97.1 75.3-105 %Rec 8/2/2020 9:39:57 AM 54058 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 8/2/2020 9:39:57 AM 54058 Benzene 0.024 mg/Kg Toluene ND 0.049 mg/Kg 8/2/2020 9:39:57 AM 54058 Ethylbenzene ND 0.049 mg/Kg 1 8/2/2020 9:39:57 AM 54058 Xylenes, Total ND 0.097 mg/Kg 8/2/2020 9:39:57 AM 54058

102

80-120

%Rec

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

Page 5 of 11

54058

2007E42-006

Lab ID:

Analytical Report

Received Date: 7/29/2020 9:30:00 AM

Lab Order 2007E42 Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC Client Sample ID: BG-2

Project: Turquoise PWU 27 1H Collection Date: 7/28/2020 2:15:00 PM

Matrix: SOIL

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: **JMT** Chloride ND 60 mg/Kg 20 8/4/2020 7:30:34 PM 54155 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.6 mg/Kg 8/1/2020 1:21:33 AM 54061 ND Motor Oil Range Organics (MRO) 48 mg/Kg 1 8/1/2020 1:21:33 AM 54061 Surr: DNOP 35.6 30.4-154 %Rec 8/1/2020 1:21:33 AM 54061 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 8/2/2020 10:03:34 AM 54058 4.9 mg/Kg 1 Surr: BFB 99.5 75.3-105 %Rec 8/2/2020 10:03:34 AM 54058 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 8/2/2020 10:03:34 AM 54058 Benzene 0.025 mg/Kg Toluene ND 0.049 mg/Kg 8/2/2020 10:03:34 AM 54058 Ethylbenzene ND 0.049 mg/Kg 8/2/2020 10:03:34 AM 54058 Xylenes, Total ND 0.099 mg/Kg 8/2/2020 10:03:34 AM 54058 Surr: 4-Bromofluorobenzene 8/2/2020 10:03:34 AM

104

80-120

%Rec

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
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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 6 of 11

54058

Lab Order **2007E42**

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Turquoise PWU 27 1H

Lab ID: 2007E42-007

Client Sample ID: BG-3

Collection Date: 7/28/2020 2:20:00 PM

Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/4/2020 7:42:58 PM	54155
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/1/2020 1:45:51 AM	54061
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/1/2020 1:45:51 AM	54061
Surr: DNOP	38.2	30.4-154	%Rec	1	8/1/2020 1:45:51 AM	54061
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/2/2020 10:27:00 AM	54058
Surr: BFB	99.8	75.3-105	%Rec	1	8/2/2020 10:27:00 AM	54058
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/2/2020 10:27:00 AM	54058
Toluene	ND	0.048	mg/Kg	1	8/2/2020 10:27:00 AM	54058
Ethylbenzene	ND	0.048	mg/Kg	1	8/2/2020 10:27:00 AM	54058
Xylenes, Total	ND	0.096	mg/Kg	1	8/2/2020 10:27:00 AM	54058
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/2/2020 10:27:00 AM	54058

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

Page 7 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007E42**

06-Aug-20

Client: Pima Environmental Services LLC

Project: Turquoise PWU 27 1H

Sample ID: MB-54155 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **54155** RunNo: **70830**

Prep Date: 8/4/2020 Analysis Date: 8/4/2020 SeqNo: 2466155 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-54155 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54155 RunNo: 70830

Prep Date: 8/4/2020 Analysis Date: 8/4/2020 SeqNo: 2466156 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.2 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

Page 8 of 11

Hall Environmental Analysis Laboratory, Inc.

2007E42 06-Aug-20

WO#:

Client: Pima Environmental Services LLC

Project: Turquoise PWU 27 1H

Sample ID: LCS-54061 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 54061 RunNo: 70721

Prep Date: 7/30/2020 Analysis Date: 7/31/2020 SeqNo: 2465153 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 51
 10
 50.00
 0
 102
 70
 130

 Surr: DNOP
 5.2
 5.000
 104
 30.4
 154

Sample ID: MB-54061 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 54061 RunNo: 70721

Prep Date: 7/30/2020 Analysis Date: 7/31/2020 SeqNo: 2465156 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 11 10.00 108 30.4 154

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
- 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 9 of 11

Hall Environmental Analysis Laboratory, Inc.

2007E42 06-Aug-20

WO#:

Client: Pima Environmental Services LLC

Project: Turquoise PWU 27 1H

Sample ID: mb-54058 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 54058 RunNo: 70777

Prep Date: 7/30/2020 Analysis Date: 8/2/2020 SeqNo: 2463158 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 101 75.3 105

Sample ID: Ics-54058 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 54058 RunNo: 70777

Prep Date: 7/30/2020 Analysis Date: 8/1/2020 SeqNo: 2463159 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 72.5 Gasoline Range Organics (GRO) 24 5.0 25.00 O 94.3 106 Surr: BFB 1100 S 1000 110 75.3 105

Sample ID: mb-54080 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 54080 RunNo: 70777

Prep Date: 7/30/2020 Analysis Date: 8/2/2020 SeqNo: 2463182 Units: %Rec

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

Surr: BFB 990 1000 98.8 75.3 105

Sample ID: Ics-54080 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: LCSS Batch ID: 54080 RunNo: 70777

1100

Prep Date: 7/30/2020 Analysis Date: 8/2/2020 SegNo: 2463183 Units: %Rec

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

75.3

105

111

Qualifiers:

Surr: BFB

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 10 of 11

S

Hall Environmental Analysis Laboratory, Inc.

2007E42 06-Aug-20

WO#:

Client: Pima Environmental Services LLC

Project: Turquoise PWU 27 1H

Sample ID: mb-54058	ole ID: mb-54058 SampType: MBLK				TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batcl	h ID: 54 0	058	F	RunNo: 7							
Prep Date: 7/30/2020	Analysis D	Date: 8/	2/2020	SeqNo: 2463237			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: 4-Bromofluorobenzene	1.1		1.000		106	80	120					
Sample ID: LCS-54058	SampT	Type: LC	CS TestCode: EPA Method 8021B: Volatiles									

Sample ID: LCS-54058	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 54 0	058	F	0777					
Prep Date: 7/30/2020	ep Date: 7/30/2020 Analysis Date: 8/1/2020 SeqNo: 2463238					Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.4	80	120			
Toluene	0.95	0.050	1.000	0	94.5	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.5	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID: mb-54080	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	R	RunNo: 70777							
Prep Date: 7/30/2020	8/2/2020	020 SeqNo: 2463261				:			
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		104	80	120			

Sample ID: LCS-54080	SampTy	/pe: LC	s	Tes	PA Method	8021B: Volat	iles			
Client ID: LCSS	t ID: LCSS Batch ID: 54080 RunNo: 70777									
Prep Date: 7/30/2020	Prep Date: 7/30/2020 Analysis Date: 8/2/2020 SeqNo:				SeqNo: 24	463262	Units: %Rec	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1 1		1 000		108	80	120			

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

Page 11 of 11



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

Clie	ent Name:	Pima Enviro Services LL		Work	Order Num	nber: 200	7E42			RcptNo	: 1
Rec	eived By:	Cheyenne	Cason	7/29/202	20 9:30:00	AM					
Com	npleted By:	Juan Roja	s	7/29/202	20 10:07:5	1 AM		Gian	6. G	_	
Revi	iewed By:	EW	1/29	120							
Cha	in of Cus	tody									
		ustody compl	ete?			Yes	✓	No		Not Present	
2. H	low was the	sample delive	ered?			<u>Cou</u>	<u>ırier</u>				
Log	a In										
		npt made to c	ool the sample	es?		Yes	✓	No		NA 🗆	
4. W	ere all sam	ples received	at a temperat	ure of >0°Ct	o 6.0°C	Yes	¥	No		NA 🗆	
5. s	ample(s) in	proper contai	ner(s)?			Yes	V	No			
6. St	ufficient sam	nple volume fo	or indicated te	st(s)?		Yes	✓	No			
7. An	e samples (except VOA a	and ONG) pro	perly preserve	d?	Yes	✓	No			
8. W	as preserva	tive added to	bottles?			Yes		No	✓	NA 🗆	
9. Re	eceived at le	east 1 vial with	n headspace <	<1/4" for AQ V	OA?	Yes		No		NA 🗹	
10. W	ere any san	mple containe	rs received br	oken?		Yes		No	V	# of preserved	
							_			bottles checked	
		ork match boti	tle labels? in of custody)			Yes	✓	No		for pH:	r >12 unless noted)
			iified on Chain			Yes	✓	No		Adjusted?	TZ dinego netod)
			re requested?			Yes	✓	No			1/al
14. W	ere all holdi	ng times able ustomer for a	to be met?			Yes	✓	No		Checked by	mc 7/29/
		ing (if app	•								
				ith this order?		Yes		No		NA 🗹	
	Person	Notified:			Date						
	By Who				Via:		ail 🗀	Phone	Fax	☐ In Person	
	Regardi	<u>-</u>	According to Accor	sa aa-estataes sa aa resemble de f	*10.		Ç]		1	
	_	nstructions:								**************************************	
16. A	Additional rei	marks:								<u>. </u>	J
17. c	cooler Infor	mation									
- <u>-</u>	Coaler No	****	Condition	Seal Intact	Seal No	Seal D	ate 📲	Signed I	Ву		
}	1	3.9	Good								
	2	2.3	Good								

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107	RCRA 8 Metals		arks: $3.9 \pm 0 = 3.9c$ $2.3 \pm 0 = 2.3c$ $4.9 \pm 0 = 4.9c$ If Any sub-contracted data will be clearly notated on the analytical report.
######################################	EDB (Method 504.1) RO81 Pesticides/8082 PCB's RO81 Pesticides/8082 PCB's PPHs by 8310 or 8270SIMS		Remarks:
Turn-Around Time: Ban C Ban C Band C Bush Project Name:	nager:		Received by: Via. Date Time CM
Chaing Address: 1601 N. Turner Ste 500 Hobbs Nm 88240 Phone #: 575-121-1677	Chris & pimaci I. Com Level 4 (Full Validation) Az Compliance □ Other Matrix Sample Name	13155 N-Composite 13155 S-Comp 1400 E-Comp 1410 (36-1 1415 (36-2 1420 (36-2 1420 (36-3 1420 (36	Date: Time: Relinquished by: Received by: Via: Date Time Remarks: 3.9 ± 0 = 2.3 ± 0 =



September 30, 2020

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

RE: TURQUOISE PWV 27 #1H

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

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

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

TURQUOISE PWV 27 #1H Project Name:

Project Number:

Project Location: DEVON - EDDY CO NM Sampling Date: 09/21/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: S - 1 N BOTTOM (H002541-01)

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	09/25/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	106	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	108	% 42.2-15	6						

Sample ID: S - 2 N SIDE (H002541-02)

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	09/25/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	111 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	111 9	2% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

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

 09/25/2020
 Sampling Date:
 09/21/2020

 09/30/2020
 Sampling Type:
 Soil

 TURQUOISE PWV 27 #1H
 Sampling Condition:
 Cool & Intac

Project Name: TU Project Number: 33

Project Location: DEVON - EDDY CO NM

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

Sample ID: S - 3 W BOTTOM (H002541-03)

TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	115 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	118 %	42.2-15	6						

Sample ID: S - 4 W SIDE (H002541-04)

TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2020	ND	195	97.5	200	9.47	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	185	92.6	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					
Surrogate: 1-Chlorooctane	116	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	116	% 42.2-15	6						

Sample ID: S - 5 S BOTTOM (H002541-05)

Chloride, SM4500Cl-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	09/25/2020	ND	416	104	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



09/21/2020

True Value QC

Tamara Oldaker

RPD

Qualifier

Analytical Results For:

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

Fax To:

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

09/30/2020 Sampling Type: Soil
TURQUOISE PWV 27 #1H Sampling Condition: Cool & Intact

Method Blank

Sampling Date:

BS

% Recovery

Sample Received By:

Project Number: 33

Project Name:

Analyte

Project Location: DEVON - EDDY CO NM

Result

Sample ID: S - 6 S SIDE (H002541-06)

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

Reporting Limit

Chloride 48.0 16.0 09/25/2020 ND 416 104 400 0.00

Analyzed

Chloride, SM4500Cl-B Analyzed By: AC BS True Value QC RPD Analyte Result Reporting Limit Analyzed Method Blank Qualifier % Recovery Chloride 80.0 16.0 09/25/2020 416 400 0.00 ND 104

Sample ID: S - 8 E SIDE (H002541-08)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 160 09/25/2020 ND 400 0.00 16.0 416 104

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

in 3		BILL TO		ANALYSIS REQUEST	
1/61 1/2 Joues		P.O. #: 208677	22	- 1	-
ss: 1601 N IUMEN	500	Company: De VOL			
City: 110605 State: 1/1	State: N/M Zip: 00746	Attn: Ton Byrum	Unn		
W	ner Della	Address:			
turquise pw	41 -	State: Zip:			
3		#			
Sampler Name: Mobert Carper		Fax #:			
FOR LAB USE ONLY		PRESERV. SAN	SAMPLING		
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	TPH Chloride		
N 22 A L	- <	-<	0000		
2-3 W					
5 5-5 5 bottom			A S101		
5-7					
	<	<	1035		
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the service in no source shall be deemed waited unless made in writing and received by Cardinal within 30 days after completion of the client for the	lent'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 cause whatsoever shall be deemed waiwed unless made in writing and received by Cardinal within 30 days after companion.	r tort, shall be limited to the amount pai	by the client for the		
Relinquished By: Date: Time:	of services hereunder by Cardinal, repartiless of whether such claim is based upon any of the above stated reasons or otherwise. Date: Jy-76 Received By: Verbal Results all Results and Results a	as of use, or loss of profits incurred by obased upon any of the above stated re	Yes ailed. Ple	□ No Add'I Phone #:	
Relinquished By: V Date:	Received By:	J. C.	REMARKS:		
Delivered By: (Circle One) Observed Temp. °C Sampler - UPS - Bus - Other: Corrected Temp. °C	0.00	CHECKED BY: (Initials)		Standard Bacteria (only) Sample Condition Cool Intact Observed Tenn °C	
FORM:005 R 3. I 00/04/20 † Cardinal c	Cardinal cannot accent verbal charges	7.0	Correction Factor None	Yes Yes No Corrected Temp. °C	

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

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 14807

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
	VIRONMENTAL SERVICES, L	1601 N. Turner	329999	14807	C-141
Suite 500	Hobbs, NM88240				

OCD Reviewer	Condition
chensley	None