

March 11, 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: Site Remediation and Closure Report Cowpens 28 Fed Com #1 API No. 30-015-36560 GPS: Latitude 32.628799 Longitude -103.871516 Unit J, Section 28, Township 19S, Range 31E Eddy County, NM NMOCD Ref. No. NKMW1105941469 (2RP-615)

Dear Mr. Bratcher and Mr. Amos,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and remediation activities for a produced water spill that occurred at the Cowpens 28 Fed Com #1 (Cowpens). The initial C-141 was submitted on February 11, 2011 (Appendix C). This incident was assigned 2RP-615, Incident ID NKMW1105941469 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Cowpens is located approximately twenty-five (25) miles northeast of Carlsbad, NM. This site is located in Unit J, Section 28, Township 19S, Range 31E, Latitude 32.628799 and Longitude -103.871516, Eddy County, New Mexico as is shown in Figure 1, the 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 lower Pleistocene)-Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. This area may locally include uppermost Pliocene deposits (QP). The soil in this area is made up of Kermit-Berino fine sands, 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 low potential for karst geology to be present in the area of the Cowpens (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 130 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 100 feet BGS. The closest waterway and is a playa located approximately 4.0 miles to the southwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29								
Depth to								
Groundwater (Appendix A)	Chlorides	Chlorides Total TPH GRO+DRO						
130′	20,000 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 were less than 50 feet per Rule 19.15.29								
		Yes	No					
Within <u>300</u> feet of any watercourse		x						
Within <u>200</u> feet of any high-water mark		х						
Within <u>300</u> feet from a or church		х						
Within <u>500</u> feet of a sp five households for do		х						
Within 1000 feet of an			х					
Within incorporated m well field		x						
Within <u>300</u> feet of a w		х						
Within the area overly			х					
Within an unstable are	ea (Karst)				x			
Within a 100-year floo	dplain				х			

Reference Figure 2 for a TOPO Map.

Release Information

A release of 140 bbls of produced water was discovered on February 9, 2011 at approximately 8:00 a.m., with the apparent source being a drain line connection at the Site. The drain line connection on the fiberglass water tank had frozen overnight and parted (pulled) away from the tank causing the spill.

Site Assessment and Soil Sampling Results

On August 21, 2020, Pima Environmental conducted a site assessment and obtained soil samples to get a more in-depth picture of the horizontal extent of the contamination. Laboratory results of this sampling event can be found in the following data table.

	August 21, 2020 Assessment Sampling Event							
N	NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 50')							
Devon Energy - Cowpens 28 Fed Com 1								
Sample Date	8/21/20	NM Approved Laboratory Results						
Commissio	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
Sample ID	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Comp-S-N1	6"	ND	ND	ND	ND	ND	ND	ND
Comp-S-E2	6"	ND	ND	ND	ND	ND	ND	82
Comp-S-S3	6"	ND	ND	ND	ND	ND	ND	ND
Comp-S-W4	6"	ND	ND	ND	ND	ND	ND	ND
BG-N1	6"	ND	ND	ND	ND	ND	ND	ND
BG-E2	6"	ND	ND	6.7	1300	ND	1306.7	3300
BG-S3	6"	ND	ND	ND	9.1	ND	9.1	ND
BG-W4	6"	ND	ND	ND	ND	ND	ND	ND

. aust 21 2020 Assa

ND- Analyte Not Detected

Remediation Activities

On October 7th, 2020, Pima mobilized personnel and equipment to conduct remedial activities. In the vicinity of BG-E2, we treated the area with a MicroBlaze solution. After 60 days, we returned to the site to assess and collect a confirmation sample of the treated area. The laboratory results of this sampling event can be found in the following data table.

NIV	1OCD Table	1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 50')						
Devon Energy - Cowpens 28 Fed Com 1								
Sample Date	12/31/20		NM Approved Laboratory Results					
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
BG-E2	6"	ND	ND	ND	ND	ND	ND	32

BG-E2 Confirmation Soil Sample Results 12-31-20

ND- Analyte Not Detected

Complete Laboratory Reports are attached in Appendix C.

Based on the Confirmation sample results, the area was below NMOCD Closure Criteria 19.15.29 NMAC.

See Appendix D for photographic documentation.

Closure Request

After careful review, Pima requests that this Incident ID NKMW 1105941469 (2RP-615), be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Tom Bynum at 580-748-1613 or tom@pimaoil.com.

Respectfully,

Tom Bynum

Tom Bynum Environmental Project Manager Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- TOPO Map
- 3- Karst Map
- 4- Site 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 - Laboratory Reports



Figures:

1-Location Map

2-ТОРО Мар

3-Karst Map

4-Site Map

Cowpens 28 Fed Com 1

Devon Energy API #30-015-36560 Location Map Legend

• Cowpens 28 Fed Com 1

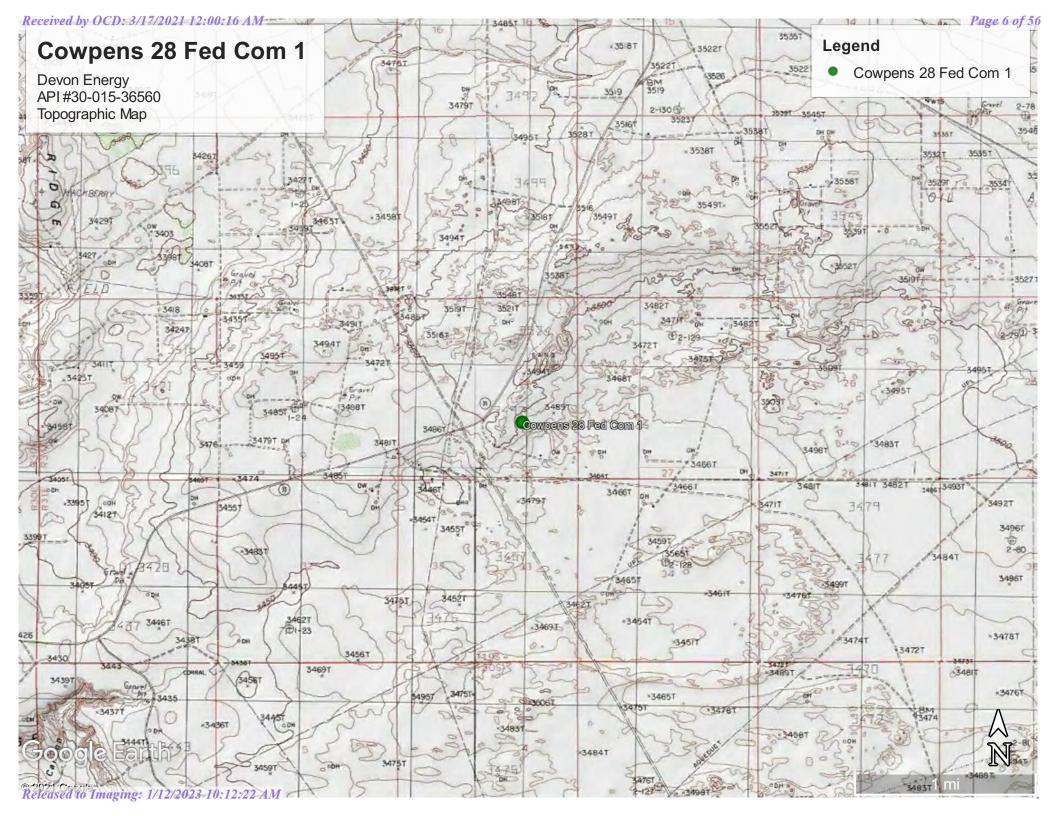
Cowpens 28 Fed Com 1

Google Earth

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Devon Energy API #30-015-36560 Karst Map Page 7 of 56

Cowpens 28 Fed Com 1



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Appendix A

Water Surveys: OSE USGS Surface Water Map Active Water Well Map



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

(A CLW##### in the (R=POD has POD suffix indicates the been replaced, POD has been replaced O=orphaned, & no longer serves a (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is water right file.) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet) closed) POD Sub-QQQ Water **POD Number** basin County 64 16 4 Sec Tws Rng Y DistanceDepthWellDepthWater Column Code Х CP 00722 POD1 3610273* 🧲 CP LE 4 3 3 28 19S 31E 605106 902 200 CP 00722 POD1 R CP LE 4 3 3 28 19S 31E 605106 3610273* 🧲 902 200 31E CP 00723 POD1 CP ED 2 1 1 33 19S 605111 3610071* 🧧 1007 139 CP 00725 POD1 CP ED 1 3 3 28 19S 31E 604906 3610473* 1024 231 CP 00722 POD3 CP LE 2 4 1 33 19S 31E 605519 3609673* 1086 220 140 80 CP 01554 POD2 CP LE 2 2 1 22 19S 31E 607165 3613322 🧲 2919 400 CP 01554 POD1 CP LE 2 2 1 22 19S 31E 607166 2948 400 3613354 🧲 CP 00829 POD1 CP LE 2 4 16 19S 31E 606165 3614009* 3331 120 CP 00641 POD1 CP ED 19S 31E 610247 3609634* 300 130 170 4 1 36 4464 <u>CP 00520</u> CP ED 4 4 1 10 20S 31E 607163 3606278* 4584 280 130 150 CP 00873 POD1 CP 31E LE 1 1 19 19S 601772 3613147* 4812 340 180 160 Average Depth to Water: 145 feet 130 feet Minimum Depth: Maximum Depth: 180 feet Record Count: 11 UTMNAD83 Radius Search (in meters):

Easting (X): 605908.13

*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.

Radius: 5000

Northing (Y): 3610687.47

3/9/21 11:43 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: United States

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Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

site_no list =

• 323734103523901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323734103523901 19S.31E.28.33124

Available data for this site Groundwater: Field measurements V GO Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°37'34", Longitude 103°52'39" NAD27

Land-surface elevation 3,473 feet above NAVD88

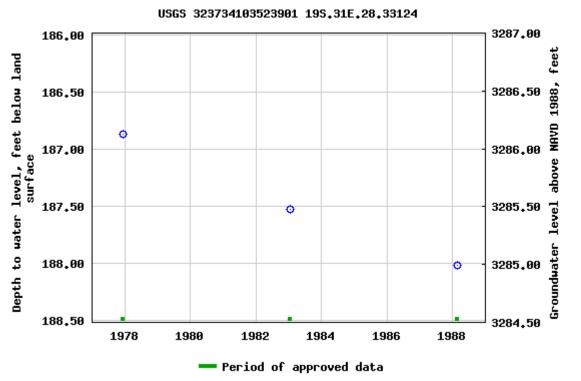
The depth of the well is 230 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Tab-separated data
Graph of data
Reselect period



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

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

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-03-09 13:44:54 EST 0.76 0.57 nadww01





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Search Results -- 1 sites found

site_no list =

• 323725103523702

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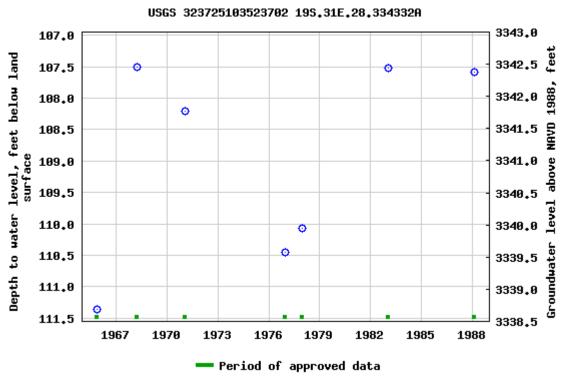
USGS 323725103523702 19S.31E.28.334332A

Available data for this site Groundwater: Field measurements V GO

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°37'25", Longitude 103°52'37" NAD27 Land-surface elevation 3,450 feet above NAVD88 The depth of the well is 190 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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



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

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Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-03-09 13:45:27 EST 0.64 0.59 nadww01





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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area:

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Search Results -- 1 sites found

site_no list =

• 323725103523701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

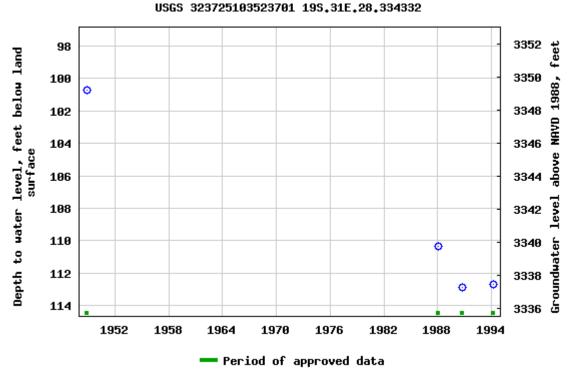
USGS 323725103523701 19S.31E.28.334332

Available data for this site Groundwater: Field measurements V GO

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°37'25", Longitude 103°52'37" NAD27 Land-surface elevation 3,450 feet above NAVD88 The depth of the well is 160 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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Devon Energy API #30-015-36560 Surface Water Map

Cowpens 28 Fed Com 1

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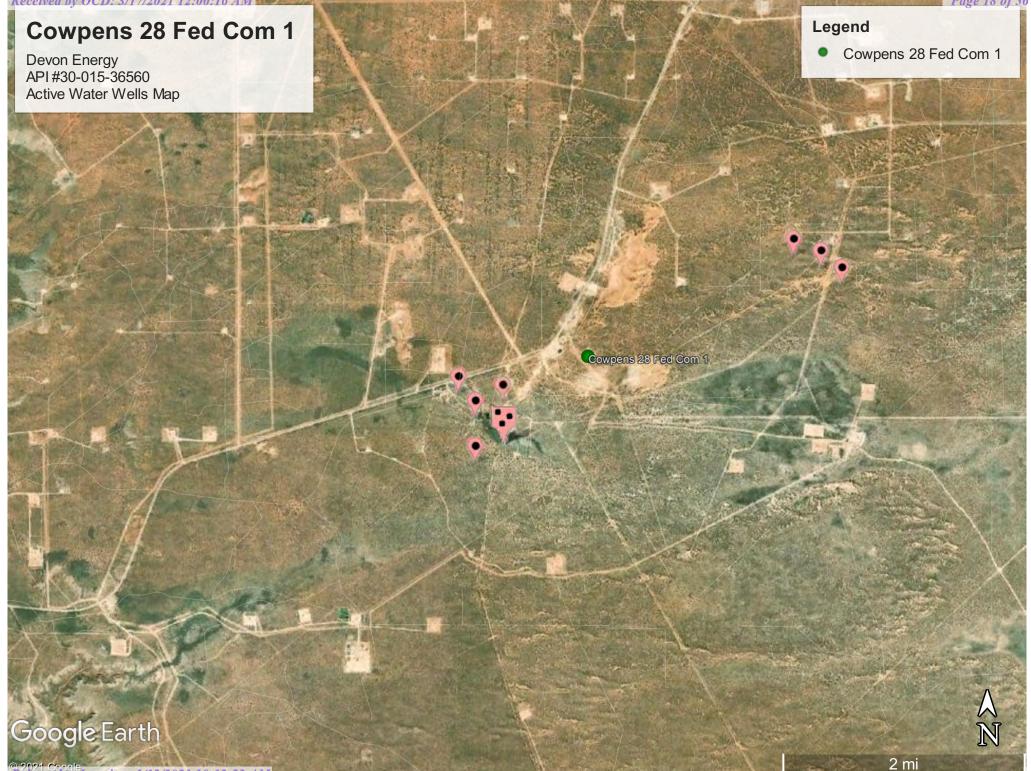
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Appendix B

Soil Survey & Geological Data FEMA Flood Map

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q Elevation: 3,100 to 4,200 feet Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F Frost-free period: 190 to 230 days Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent Berino and similar soils: 35 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Plains, alluvial fans Landform position (three-dimensional): Talf, rise Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand *H2 - 7 to 60 inches:* fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A Ecological site: Deep Sand (R042XC005NM) Hydric soil rating: No

Description of Berino

Setting

Landform: Fan piedmonts, plains Landform position (three-dimensional): Riser Down-slope shape: Convex Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand H2 - 17 to 50 inches: fine sandy loam H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: 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: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Salinity, maximum in profile: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent *Hydric soil rating:* No

Data Source Information

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

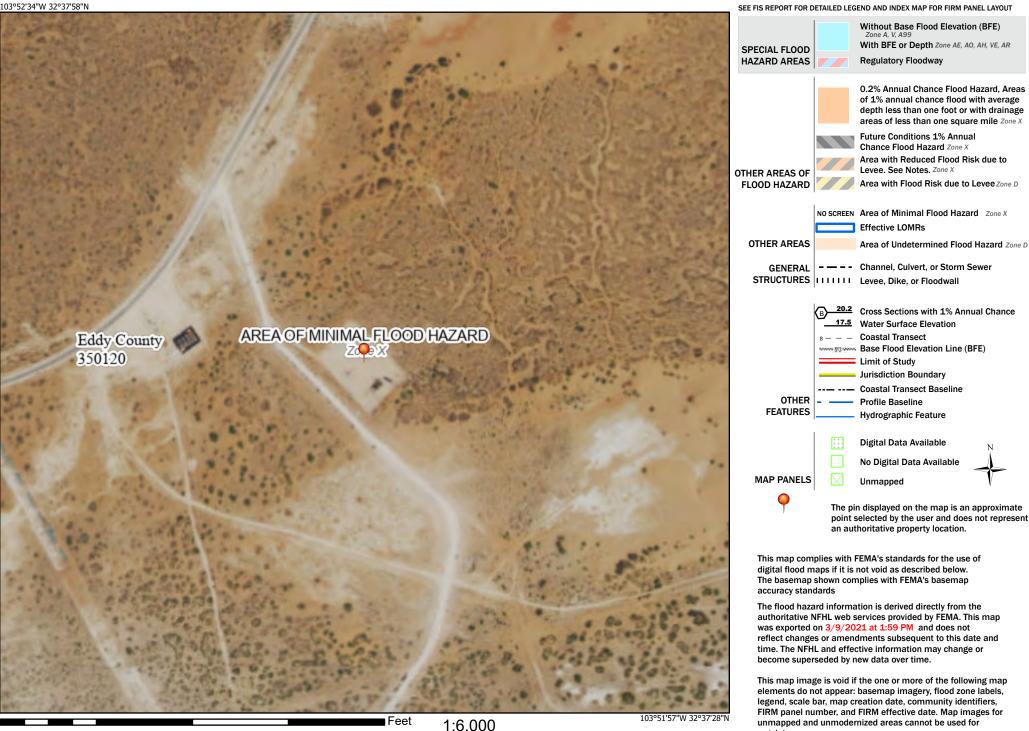


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Legend

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

regulatory purposes.



Appendix C

C-141's: Initial

Final

eceived by OCD: 3/17/2021 12:00:16 AM						Page 24 of
1625 N. French Dr., Hobbs, NM 88240		New Mex and Natura	ico l Resources			Form C-14 Revised March 17, 199
District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 Sta Example De Sente Fe NM 87505	h St. Francis Dr. with Rule 1			Submit 2 Copies to appropriat District Office in accordanc with Rule 116 on bac side of forr		
0-015-36560 Release Notifi			ction	8 7 8 10 10 M		
	PERA				ial Re	port 🗌 Final Repo
Name of Company Devon Energy 6/37			Ernie Duran			
Address P. O. Box 250 Artesia, NM 88211		Felephone	e No.□ 575-5	513-176	8	
Facility Name Cowpens 28 Fed #1]	Facility T	ype□Gas We	ell		
Surface Owner Minera	l Owne	r			Lease	No. 🗆
LOC	ATION	NOF REI	EASE			
Unit Letter Section Township Range Feet from the 28 19S 31E 1650		South Line	Feet from the 1650	East/We East	st Line	County Eddy County, NM
NA	TURE	OF RELI	EASE		# **	I
Type of Release Produced Water	TUIL	Volume of	Release 140 BPV			Recovered 140 BPW
Source of Release Drain Line Connection	·	Date and H 2-9-11 8:	lour of Occurrenc 00 AM	I	Date and -9-11 8	Hour of Discovery :00 AM
Was Immediate Notice Given? 🛛 Yes 🗌 No 🗌 Not F	Required	If YES, To	Whom? Left ms	g BLM Jin	n Amos	
By Whom? □Ernie Duran Was a Watercourse Reached?			lour 2-10-11 10			
Yes ⊠ No		If YES, Vo	lume Impacting t	the Waterc	ourse.	
If a Watercourse was Impacted, Describe Fully.*						RECEIVED
N/A						FEB 23 2011
Describe Cause of Problem and Remedial Action Taken.*					N	MOCD ARTESIA
Drain line connection on the fiberglass water tank had frozen ov	ernight ar	nd parted (pu	lled) away from t	he tank ca		
Describe Area Affected and Cleanup Action Taken.* The entire 140 bbl produced water spill was contained within the environmental impact outside of the lined containment. Called y	e lined cor	itainment. A ick to pick up	ll 140 bbls of pro o water.	duced wat	er was re	ecovered causing to
I hereby certify that the information given above is true and com regulations all operators are required to report and/or file certain public health or the environment. The acceptance of a C-141 rep should their operations have failed to adequately investigate and or the environment. In addition, NMOCD acceptance of a C-141 federal, state, or local laws and/or regulations.	release no port by the remediate	otifications ar NMOCD ma contaminati	nd perform correc arked as "Final R on that pose a thr	ctive action leport" doe reat to grou	s for release s not reliand water	eases which may endanger ieve the operator of liability r, surface water, human health
			OIL CONSERVATION DIVISION			
Signature Jun		Approved by	Signec □District Supervi	d By A	(14)	Brancha
Printed Name: Ernie Duran Title: Asst. Production Foreman			alal			
		Approval Dat	///	EX	piration	Attached
Date: 2-11-11 Phone: (575) 513-1768 Attach Additional Sheets If Necessary		Conditions of Remed	Approval: liation per OC	D Rules	2,	
		Guidelines	. SUBMIT REM . NOT LATER T 	IEDIATIC		2.RP-61-

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Page 3

Oil Conservation Division

	Page 25 of 5
Incident ID	NKMW1105941469
District RP	2RP-615
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \mathbf{X} 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.

age 4	2021 12:00:16 AM State of New Mexi Oil Conservation Div		Incident ID District RP Facility ID Application ID	Page 26 0 NKMW1105941469 2RP-615
regulations all operators a public health or the envir failed to adequately inves addition, OCD acceptance and/or regulations.	formation given above is true and complet re required to report and/or file certain rele onment. The acceptance of a C-141 report tigate and remediate contamination that po e of a C-141 report does not relieve the ope	ease notifications and perform by the OCD does not relieve the se a threat to groundwater, sur-	corrective actions for rel ne operator of liability sh face water, human health pliance with any other for	eases which may endanger nould their operations have n or the environment. In
Printed Name: Lupe	r Carrasco	Date: 3/11/2021		
email: lupe.carrasc		Telephone: 575-7		
OCD Only				
Received by:		Date:		

Page 6

Oil Conservation Division

Incident ID	NKMW1105941469
District RP	2RP-615
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

 Printed Name:
 Lupe Carrasco
 Title:
 EHS Professional

 Signature:
 Lupe Carrasco
 Date:
 3/11/2021

Telephone: 575-725-0787

email: lupe.carrasco@dvn.com

OCD

OCD Only

Received by:

Date: 06/16/2021

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	1 by: Aa	hley Maxwell	Date:	01/12/2023
Printed Name:	Ashley Maxwell	<i>U</i>	Title: _	Environmental Specialist



Appendix D

Photographic Documentation









Appendix E

Laboratory Reports



September 09, 2020

Chris Jones Pima Environmental Services LLC 1601 N. Turner Ste 500 Hobbs, NM 88240 TEL: (575) 631-6977 FAX:

RE: Cowpens 28 Fed Com 1

OrderNo.: 2008E85

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/27/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2008E85

Date Reported: 9/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC Client Sample ID: Comp-S-N1 **Project:** Cowpens 28 Fed Com 1 Collection Date: 8/21/2020 9:00:00 AM Lab ID: 2008E85-001 Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 9/1/2020 7:40:33 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 9/1/2020 7:40:33 AM Surr: DNOP 97.8 30.4-154 %Rec 1 9/1/2020 7:40:33 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 8/30/2020 1:15:35 AM 4.9 mg/Kg 1 Surr: BFB 98.7 75.3-105 %Rec 1 8/30/2020 1:15:35 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 8/30/2020 1:15:35 AM 1 Toluene ND 0.049 mg/Kg 1 8/30/2020 1:15:35 AM Ethylbenzene ND 0.049 mg/Kg 1 8/30/2020 1:15:35 AM Xylenes, Total ND 0.098 mg/Kg 1 8/30/2020 1:15:35 AM Surr: 4-Bromofluorobenzene 103 80-120 %Rec 1 8/30/2020 1:15:35 AM Analyst: CJS **EPA METHOD 300.0: ANIONS** Chloride ND 60 9/2/2020 6:03:11 AM ma/Ka 20

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 16

Project:

Lab ID:

Analytical Report Lab Order 2008E85

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Cowpens 28 Fed Com 1

2008E85-002

Date Reported: 9/9/2020 Client Sample ID: Comp- S-E2 Collection Date: 8/21/2020 9:04:00 AM Received Date: 8/27/2020 8:00:00 AM

Date Analyzed	DF	Units	RL Qual	Result		Analyses				
Analyst: JME				cs	IESEL RANGE ORGANI	EPA METHOD 8015M/D: DIESEL F				
8/31/2020 11:38:16 AM	1	mg/Kg	9.6	ND)	Diesel Range Organics (DRO)				
8/31/2020 11:38:16 AM	1	mg/Kg	48	ND	RO)	Motor Oil Range Organics (MRO)				
8/31/2020 11:38:16 AM	1	%Rec	30.4-154	101		Surr: DNOP				
Analyst: CJS					NS	EPA METHOD 300.0: ANIONS				
9/2/2020 6:40:24 AM	20	mg/Kg	60	82		Chloride				
Analyst: DJF					ATILES SHORT LIST	EPA METHOD 8260B: VOLATILES				
8/28/2020 5:47:54 PM	1	mg/Kg	0.025	ND		Benzene				
8/28/2020 5:47:54 PM	1	mg/Kg	0.049	ND		Toluene				
8/28/2020 5:47:54 PM	1	mg/Kg	0.049	ND		Ethylbenzene				
8/28/2020 5:47:54 PM	1	mg/Kg	0.099	ND		Xylenes, Total				
8/28/2020 5:47:54 PM	1	%Rec	70-130	101	4	Surr: 1,2-Dichloroethane-d4				
8/28/2020 5:47:54 PM	1	%Rec	70-130	100	e	Surr: 4-Bromofluorobenzene				
8/28/2020 5:47:54 PM	1	%Rec	70-130	114	e	Surr: Dibromofluoromethane				
8/28/2020 5:47:54 PM	1	%Rec	70-130	102		Surr: Toluene-d8				
Analyst: DJF					: GASOLINE RANGE	EPA METHOD 8015D MOD: GASC				
8/28/2020 5:47:54 PM	1	mg/Kg	4.9	ND	RO)	Gasoline Range Organics (GRO)				
8/28/2020 5:47:54 PM	1	%Rec	70-130	105		Surr: BFB				
			-		RO)					

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 16

Project:

Analytical Report Lab Order 2008E85

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Cowpens 28 Fed Com 1

Date Reported: 9/9/2020 Client Sample ID: Comp-S-S3 Collection Date: 8/21/2020 9:08:00 AM Received Date: 8/27/2020 8:00:00 AM

Lab ID: 2008E85-003	5-003 Matrix: SOIL Received Date: 8/27/2020 8:00:0			Received Date: 8/27/2020 8:00:00 AM			
Analyses	Result	RL Qua	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analyst: JME		
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/31/2020 11:47:48 AM		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/31/2020 11:47:48 AM		
Surr: DNOP	99.3	30.4-154	%Rec	1	8/31/2020 11:47:48 AM		
EPA METHOD 300.0: ANIONS					Analyst: CJS		
Chloride	ND	61	mg/Kg	20	9/2/2020 6:52:48 AM		
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: DJF		
Benzene	ND	0.025	mg/Kg	1	8/28/2020 7:13:47 PM		
Toluene	ND	0.049	mg/Kg	1	8/28/2020 7:13:47 PM		
Ethylbenzene	ND	0.049	mg/Kg	1	8/28/2020 7:13:47 PM		
Xylenes, Total	ND	0.099	mg/Kg	1	8/28/2020 7:13:47 PM		
Surr: 1,2-Dichloroethane-d4	97.8	70-130	%Rec	1	8/28/2020 7:13:47 PM		
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/28/2020 7:13:47 PM		
Surr: Dibromofluoromethane	106	70-130	%Rec	1	8/28/2020 7:13:47 PM		
Surr: Toluene-d8	98.4	70-130	%Rec	1	8/28/2020 7:13:47 PM		
EPA METHOD 8015D MOD: GASOLII	NE RANGE				Analyst: DJF		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/28/2020 7:13:47 PM		
Surr: BFB	101	70-130	%Rec	1	8/28/2020 7:13:47 PM		

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 S

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

Page 3 of 16

Project:

Lab ID:

Analytical Report Lab Order 2008E85

Date Reported: 9/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Cowpens 28 Fed Com 1

2008E85-004

Client Sample ID: Comp-S-W4 Collection Date: 8/21/2020 9:12:00 AM Received Date: 8/27/2020 8:00:00 AM

	Julia: SOIL	necc	avea Dute.	0/21/2	020 0.00.00 / 101
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	8/31/2020 11:57:21 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/31/2020 11:57:21 AM
Surr: DNOP	103	30.4-154	%Rec	1	8/31/2020 11:57:21 AM
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	ND	59	mg/Kg	20	9/2/2020 7:05:13 AM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: DJF
Benzene	ND	0.025	mg/Kg	1	8/28/2020 8:39:27 PM
Toluene	ND	0.049	mg/Kg	1	8/28/2020 8:39:27 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/28/2020 8:39:27 PM
Xylenes, Total	ND	0.099	mg/Kg	1	8/28/2020 8:39:27 PM
Surr: 1,2-Dichloroethane-d4	98.1	70-130	%Rec	1	8/28/2020 8:39:27 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/28/2020 8:39:27 PM
Surr: Dibromofluoromethane	110	70-130	%Rec	1	8/28/2020 8:39:27 PM
Surr: Toluene-d8	100	70-130	%Rec	1	8/28/2020 8:39:27 PM
EPA METHOD 8015D MOD: GASOLINE RAN	IGE				Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/28/2020 8:39:27 PM
Surr: BFB	104	70-130	%Rec	1	8/28/2020 8:39:27 PM

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 S

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

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Analytical Report Lab Order 2008E85

Date Reported: 9/9/2020

8/28/2020 9:07:58 PM

8/28/2020 9:07:58 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC Client Sample ID: BG-N1 **Project:** Cowpens 28 Fed Com 1 Collection Date: 8/21/2020 9:16:00 AM Lab ID: 2008E85-005 Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 8/31/2020 12:06:56 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/31/2020 12:06:56 PM Surr: DNOP 95.2 30.4-154 %Rec 1 8/31/2020 12:06:56 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 9/2/2020 11:07:00 AM 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: DJF Benzene ND 0.025 mg/Kg 8/28/2020 9:07:58 PM 1 Toluene ND 0.049 mg/Kg 8/28/2020 9:07:58 PM 1 Ethvlbenzene ND 0.049 mg/Kg 1 8/28/2020 9:07:58 PM Xylenes, Total ND 0.099 mg/Kg 1 8/28/2020 9:07:58 PM Surr: 1.2-Dichloroethane-d4 98.5 70-130 %Rec 1 8/28/2020 9:07:58 PM Surr: 4-Bromofluorobenzene 106 70-130 %Rec 1 8/28/2020 9:07:58 PM Surr: Dibromofluoromethane 106 70-130 %Rec 1 8/28/2020 9:07:58 PM Surr: Toluene-d8 102 70-130 %Rec 1 8/28/2020 9:07:58 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: DJF

ND

107

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
- POL
- Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits

mg/Kg

%Rec

1

1

49

70-130

- Р Sample pH Not In Range
- RL Reporting Limit

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Gasoline Range Organics (GRO)

Surr: BFB

Project:

Lab ID:

Analytical Report Lab Order 2008E85

Date Reported: 9/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Cowpens 28 Fed Com 1

2008E85-006

Client Sample ID: BG-E2 Collection Date: 8/21/2020 9:20:00 AM Received Date: 8/27/2020 8:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst: JME
Diesel Range Organics (DRO)	1300	90		mg/Kg	10	9/1/2020 8:51:57 AM
Motor Oil Range Organics (MRO)	ND	450		mg/Kg	10	9/1/2020 8:51:57 AM
Surr: DNOP	0	30.4-154	S	%Rec	10	9/1/2020 8:51:57 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	3300	150		mg/Kg	50	9/3/2020 10:12:34 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	8/28/2020 9:36:26 PM
Toluene	ND	0.048		mg/Kg	1	8/28/2020 9:36:26 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/28/2020 9:36:26 PM
Xylenes, Total	ND	0.096		mg/Kg	1	8/28/2020 9:36:26 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	8/28/2020 9:36:26 PM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	8/28/2020 9:36:26 PM
Surr: Dibromofluoromethane	117	70-130		%Rec	1	8/28/2020 9:36:26 PM
Surr: Toluene-d8	99.8	70-130		%Rec	1	8/28/2020 9:36:26 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	6.7	4.8		mg/Kg	1	8/28/2020 9:36:26 PM
Surr: BFB	114	70-130		%Rec	1	8/28/2020 9:36:26 PM

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 S

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

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Analytical Report Lab Order 2008E85

Date Reported: 9/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC **Client Sample ID: BG-S3 Project:** Cowpens 28 Fed Com 1 Collection Date: 8/21/2020 9:24:00 AM Lab ID: 2008E85-007 Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) 9.1 9.0 mg/Kg 1 8/31/2020 12:26:09 PM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 8/31/2020 12:26:09 PM Surr: DNOP 69.5 30.4-154 %Rec 1 8/31/2020 12:26:09 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 9/2/2020 11:31:49 AM 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: DJF Benzene ND 0.024 mg/Kg 8/28/2020 10:04:54 PM 1 Toluene ND 0.049 mg/Kg 8/28/2020 10:04:54 PM 1 Ethvlbenzene ND 0.049 mg/Kg 1 8/28/2020 10:04:54 PM Xylenes, Total ND 0.097 mg/Kg 1 8/28/2020 10:04:54 PM Surr: 1.2-Dichloroethane-d4 101 70-130 %Rec 1 8/28/2020 10:04:54 PM Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 8/28/2020 10:04:54 PM Surr: Dibromofluoromethane 108 70-130 %Rec 1 8/28/2020 10:04:54 PM Surr: Toluene-d8 96.8 70-130 %Rec 1 8/28/2020 10:04:54 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: DJF Gasoline Range Organics (GRO) ND 8/28/2020 10:04:54 PM 49 mg/Kg 1 Surr: BFB 109 70-130 %Rec 1 8/28/2020 10:04:54 PM

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 7 of 16

Project:

Lab ID:

Analyses

Surr: DNOP

Analytical Report Lab Order 2008E85

Date Reported: 9/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC Client Sample ID: BG-W4 Cowpens 28 Fed Com 1 Collection Date: 8/21/2020 9:28:00 AM 2008E85-008 Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 8.6 mg/Kg 1 9/1/2020 9:15:43 AM Motor Oil Range Organics (MRO) ND 43 mg/Kg 1 9/1/2020 9:15:43 AM 79.2 30.4-154 %Rec 1 9/1/2020 9:15:43 AM

EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	9/2/2020 11:44:14 AM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: DJF
Benzene	ND	0.025	mg/Kg	1	8/29/2020 12:27:25 AM
Toluene	ND	0.050	mg/Kg	1	8/29/2020 12:27:25 AM
Ethylbenzene	ND	0.050	mg/Kg	1	8/29/2020 12:27:25 AM
Xylenes, Total	ND	0.099	mg/Kg	1	8/29/2020 12:27:25 AM
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	8/29/2020 12:27:25 AM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	8/29/2020 12:27:25 AM
Surr: Dibromofluoromethane	109	70-130	%Rec	1	8/29/2020 12:27:25 AM
Surr: Toluene-d8	98.4	70-130	%Rec	1	8/29/2020 12:27:25 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/29/2020 12:27:25 AM
Surr: BFB	105	70-130	%Rec	1	8/29/2020 12:27:25 AM

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 S

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

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2008E85

WO#:

Hall Env	Ironmer	ital Analy	7 SIS L	Laborat	ory, Inc.						09-Sep-2
Client: Project:		Environmental ens 28 Fed Co		es LLC							
Sample ID: M	B-54870	SampT	ype: mb	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: P	BS	Batch	ID: 548	870	F	RunNo: 7	1522				
Prep Date:	9/1/2020	Analysis D	ate: 9/	2/2020	S	SeqNo: 2	499716	Units: mg/#	٢g		
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: L	CS-54870	SampT	ype: Ics	;	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID: L	css	Batch	ID: 54	870	F	RunNo: 7	1522				
Prep Date:	9/1/2020	Analysis D	ate: 9/	2/2020	S	SeqNo: 2	499717	Units: mg/#	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.2	90	110			
Sample ID: M	B-54882	SampT	ype: mb	olk	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID: P	BS	Batch	ID: 54	882	F	RunNo: 7	1554				
Prep Date: 9	9/2/2020	Analysis D	ate: 9/	2/2020	5	SeqNo: 2	501534	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: L	CS-54882	SampT	ype: Ics	;	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID: L	css	Batch	ID: 54	882	F	RunNo: 7	1554				
Prep Date: 9	9/2/2020	Analysis D	ate: 9/	2/2020	5	SeqNo: 2	501535	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.9	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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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	na Environmental S wpens 28 Fed Com		s LLC								
Sample ID: MB-54763	SampTyp	e: MBL	к	Test	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: PBS	Batch I	D: 5476	3	R	RunNo: 71495						
Prep Date: 8/28/2020	Analysis Date	e: 8/31	/2020	S	SeqNo: 24	496911	Units: mg/K	g			
Analyte	Result I	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO		10									
Motor Oil Range Organics (M Surr: DNOP		50	10.00		100	20.4	454				
	10		10.00		102	30.4	154				
Sample ID: MB-54769	SampTyp	e: MBL	к	Test	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: PBS	Batch II	D: 5476	9	R	RunNo: 71	1495					
Prep Date: 8/28/2020	Analysis Date	e: 8/31	/2020	S	SeqNo: 24	196912	Units: %Red	;			
Analyte	Result I	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	10		10.00		104	30.4	154				
Sample ID: LCS-54763	SampTyp	e: LCS		Test	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: LCSS	Batch II): 5476	3	R	RunNo: 7 1	1495					
Prep Date: 8/28/2020	Analysis Date	e: 8/31	/2020	S	SeqNo: 24	496915	Units: mg/K	g			
Analyte	Result I	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO) 37	10	50.00	0	74.8	70	130				
Surr: DNOP	5.0		5.000		99.1	30.4	154				
Sample ID: LCS-54769	SampTyp	e: LCS		Test	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: LCSS	Batch II	D: 5476	9	R	RunNo: 7 1	1495					
Prep Date: 8/28/2020	Analysis Date	e: 8/31	/2020	S	SeqNo: 24	496916	Units: %Red	;			
Analyte	Result I	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	5.0		5.000		100	30.4	154				
Sample ID: 2008E85-0	D1AMS SampTyp	e: MS		Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: Comp- S-N			3	R	RunNo: 7 1	1528			J		
Prep Date: 8/28/2020	Analysis Date	e: 9/1/ 2	2020	s	SeqNo: 24	198459	Units: mg/K	g			
Analyte	Result I	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO		9.5	47.44	0	102	47.4	136				
Surr: DNOP	4.4		4.744		92.4	30.4	154				
Sample ID: 2008E85-0	D1AMSD SampTyp	e: MSD		Test	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: Comp- S-N					RunNo: 7 1			5	-		
Prep Date: 8/28/2020					SeqNo: 24		Units: mg/K	g			
Analyte	Result I	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO		9.5	47.35	0	103	47.4	136	, B		~~~	

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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2008E85

09-Sep-20

Client: Project:	Pima Envi Cowpens 2			ces LLC							
Sample ID: 2	2008E85-001AMSD	SampT	ype: M	SD	Tes	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	Comp- S-N1	Batch	n ID: 54	763	R	unNo: 71	528				
Prep Date:	8/28/2020	Analysis D	ate: 9/	1/2020	S	eqNo: 24	198460	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.6		4.735		97.5	30.4	154	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
- 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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2008E85

09-Sep-20

Client: Project:		vironmenta s 28 Fed Co		ces LLC							
110jeet.	Cowpen	3 20 1 00 00									
Sample ID: mb-5	4741	SampT	ype: ME	BLK	Tes	Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS		Batch	n ID: 54	741	R	unNo: 7	1474				
Prep Date: 8/27	/2020	Analysis D	ate: 8/	29/2020	S	eqNo: 24	195676	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orgar	nics (GRO)	ND	5.0								
Surr: BFB		1000		1000		99.7	75.3	105			
Sample ID: Ics-54	4741	SampT	ype: LC	S	Tes	Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	5	Batch	n ID: 54	741	R	unNo: 7	1474				
Prep Date: 8/27	/2020	Analysis D	ate: 8/	29/2020	S	eqNo: 24	495677	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orgar	nics (GRO)	21	5.0	25.00	0	84.6	72.5	106			
Surr: BFB		1100		1000		106	75.3	105			S

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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2008E85

09-Sep-20

Client: Project:	Pima Environm Cowpens 28 Fe			LLC							
Sample ID: mb-54	741 Sa	ampType	MBLK		Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: PBS		Batch ID:	54741		F	RunNo: 7 ′	1474				
Prep Date: 8/27/2	2020 Analy	sis Date:	8/29/2	2020	S	SeqNo: 24	495755	Units: mg/K	٢g		
Analyte	Res	ult P	QL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1	ID 0.0)25								
Toluene	1	D 0.0	050								
Ethylbenzene	1	D 0.0	050								
Xylenes, Total	1		.10								
Surr: 4-Bromofluorobe	enzene	.0		1.000		104	80	120			
Sample ID: LCS-54	4741 Sa	ampType	LCS		Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: LCSS		Batch ID:	54741		F	RunNo: 7	1474				
Prep Date: 8/27/2	2020 Analy	sis Date:	8/29/2	2020	S	SeqNo: 24	495756	Units: mg/K	٤g		
Analyte	Res	ult P	QL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.	96 0.0)25	1.000	0	95.6	80	120			
Toluene	0.	96 0.0	050	1.000	0	96.4	80	120			
Ethylbenzene	0.	97 0.0	050	1.000	0	97.0	80	120			
Xylenes, Total	2	2.9 0	.10	3.000	0	97.3	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
- 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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2008E85

09-Sep-20

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Pima Environmental Services LLC

	28 Fed C										
Sample ID: mb-54746	Samp	Туре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batc	h ID: 54	746	F	RunNo: 7	1464					
Prep Date: 8/27/2020	Analysis I	Date: 8/	28/2020	S	SeqNo: 2	495078	Units: mg/K	٤g			
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	0.48		0.5000		96.9	70	130				
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130				
Surr: Dibromofluoromethane	0.56		0.5000		112	70	130				
Surr: Toluene-d8	0.51		0.5000		102	70	130				
Sample ID: Ics-54746	Samp	Type: LC	S4	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List		
Client ID: BatchQC	Batc	h ID: 54	746	RunNo: 71464							
Prep Date: 8/27/2020	Analysis I	Date: 8/	28/2020	S	SeqNo: 2	495079	Units: mg/K	٢g			
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	0.99	0.050	1.000	0	99.1	80	120				
Ethylbenzene	1.0	0.050	1.000	0	100	80	120				
Xylenes, Total	3.1	0.10	3.000	0	105	80	120				
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.2	70	130				
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130				
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130				
Surr: Toluene-d8	0.49		0.5000		98.1	70	130				
Sample ID: 2008e85-002ams	Samp	Туре: МS	64	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List		
Client ID: Comp- S-E2	Batc	h ID: 54	746	F	RunNo: 7	1464					
Prep Date: 8/27/2020	Analysis I	Date: 8/	28/2020	S	SeqNo: 2	495081	Units: mg/K	ζg			
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.2	0.025	0.9930	0	116	71.1	115			S	
Toluene	1.2	0.050	0.9930	0	119	79.6	132				
Ethylbenzene	1.2	0.050	0.9930	0	119	83.8	134				
Xylenes, Total	3.8	0.099	2.979	0	128	82.4	132				
					103	70	130				
Surr: 1,2-Dichloroethane-d4	0.51		0.4965								
Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene	0.52		0.4965		104	70	130				
Surr: 1,2-Dichloroethane-d4											

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

2008E85

09-Sep-20

WO#:

4 01 10

Client:

Xylenes, Total

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Pima Environmental Services LLC

0.099

3.8

0.50

0.49

0.56

0.52

Project:	Cowpens	28 Fed Co	om 1							
Sample ID:	2008e85-002amsd	SampT	ype: MS	SD4	Test	tCode: El	PA Method	8260B: Vola	tiles Short	List
Client ID:	Comp- S-E2	Batch	n ID: 54	746	R	aunNo: 7	1464			
Prep Date:	8/27/2020	Analysis Date: 8/28/2020 SeqNo: 2495082 Units: mg/Kg								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Benzene		1.1	0.025	0.9862	0	112	71.1	115	4.58	20
Toluene		1.2	0.049	0.9862	0	119	79.6	132	0.504	20
Ethylbenzene		1.2	0.049	0.9862	0	120	83.8	134	0.601	20

2.959

0.4931

0.4931

0.4931

0.4931

0

127

102

100

114

106

82.4

70

70

70

70

Qualifiers:

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

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

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Qual

20

0 0

0

0

1.47

0

0

0

0

132

130

130

130

130

09-Sep-20

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		vironmental 28 Fed Co		ces LLC													
Sample ID:	mb-54746	SampT	ype: ME	BLK	TestCode: EPA Method 8015D Mod: Gasoline Range												
Client ID:	PBS	Batch	ID: 54	746	RunNo: 71464												
Prep Date:	8/27/2020	Analysis D	ate: 8/	28/2020	S	SeqNo: 24	495102	Units: mg/H									
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Gasoline Ranç Surr: BFB	ge Organics (GRO)	ND 520	5.0	500.0		104	70	130									
Sample ID:	Ics-54746	SampT	ype: LC	S	Tes	TestCode: EPA Method 8015D Mod: Gasoline Range											
Client ID:	LCSS	Batch	ID: 54	746	F	RunNo: 7	1464										
Prep Date:	8/27/2020	Analysis D	ate: 8/	28/2020	S	SeqNo: 2495103 Units: mg/Kg											
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
	ge Organics (GRO)	23	5.0	25.00	0	90.3	70	130									
Surr: BFB		510		500.0		101	70	130									
Sample ID:	2008e85-003ams	SampT	ype: M \$	6	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range							
Client ID:	Comp- S-S3	Batch	ID: 54	746	RunNo: 71464												
Prep Date:	8/27/2020	Analysis D	ate: 8/	28/2020	S	SeqNo: 24	495106	Units: mg/k	٢g								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Gasoline Rang	ge Organics (GRO)	27	5.0	24.85	0	107	49.2	122									
Surr: BFB		520		497.0		105	70	130									
Sample ID:	2008e85-003amsd	I SampT	ype: M \$	SD	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range							
Client ID:	Comp- S-S3	Batch	ID: 54	746	F	RunNo: 7	1464										
Prep Date:	S	SeqNo: 24	495107	Units: mg/k	٨g												
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Casolino Pan	no Organico (CDO)	24	4.8	24.11	0	101	49.2	122	9.46	20							
Gasoline Rang	ge Organics (GRO)	24	4.0	24.11	0	101	49.2	122	9.40	20							

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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2008E85

09-Sep-20

	ANAL	RONMENTAL YSIS Ratory	Hall Environmen A TEL: 505-345-39 Website: clients.	4901 H Ibuquerque, 75 FAX: 505	awkins NE NM 87109 5-345-4107	Sam	nple Log-In (Check List
Cli	ent Name:	Pima Environmental Services LLC	Work Order Numb	er: 2008E8	15		RcptNo	: 1
Re	ceived By:	Cheyenne Cason	8/27/2020 8:00:00 A	м				
Co	mpleted By:	Juan Rojas	8/27/2020 8:58:10 A	м	H	and b	-	
Re	viewed By:	JR 8/27/20						
<u>Cha</u>	ain of Cus	stody						
1.	ls Chain of C	Custody complete?		Yes 🗹		No 🗌	Not Present	
2.	How was the	sample delivered?		<u>Courier</u>				
	o<u>g In</u> Nas an atter	npt made to cool the samp	oles?	Yes 🔽] I	No 🗌	NA 🗌	
4. v	Vere all sam	ples received at a tempera	ature of >0° C to 6.0°C	Yes 🔽]	No 🗌		
5. s	Sample(s) in	proper container(s)?		Yes 🔽] 1	No 🗌		
6. 5	Sufficient san	nple volume for indicated t	est(s)?	Yes 🖌	٢	No 🗌		
7. A	re samples	(except VOA and ONG) pr	operly preserved?	Yes 🔽	Ň	No 🗌		
8. v	Vas preserva	ative added to bottles?		Yes 🗌	٨	No 🔽	NA 🗌	
9. R	eceived at le	east 1 vial with headspace	<1/4" for AQ VOA?	Yes 🗌	N	No 🗌	NA 🔽	
10. V	Vere any sai	mple containers received b	proken?	Yes		No ☑ [# of preserved	
		ork match bottle labels?		Yes 🖌	Ν	No 🗆	bottles checked for pH:	
	-	ancies on chain of custody correctly identified on Cha	•	Yes 🔽		1 0 🗆	Adjusted?	>12 unless noted)
		it analyses were requested	•	Yes 🗹		•• 🗆		
14. v	Vere all holdi	ing times able to be met? ustomer for authorization.)		Yes 🔽		40 🗌	Checked by:	MC 8/27/2
Spec	cial Hand	ling (if applicable)						
		otified of all discrepancies	with this order?	Yes 🗌	1	No 🗌	NA 🗹	
	Person By Who Regard	A 19 IS A REPORT OF A REPORT O	Date Via:	🗌 eMail	Phone	Fax	In Person	

16. Additional remarks:

Client Instructions:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good				
2	3.1	Good				

Client: Ping Environmental	Turn-Around I≫-Standard Project Nam	ら(Rush					A	N	AL	YS	5 I S	5 L	AE	30		NT		
Mailing Address: 1601 N. Turner ste 500	Ców per	s 78 Fed	Com #1		49	01 H		www ns N						om M 87	109			
<u>14065, NM 88240</u> Phone#: 964-7740	WBS	4 # 20	741814		Te	el. 50)5-34	5-39			ax sis			-4107				
QA/QC Package: Asstandard Image: Level 4 (Full Validation) Accreditation: Image: Az Compliance Image: NELAC Image: Other	Sampler: <i>Q</i>	Sones esar Morr PYes	a/cs ⊡ No	E / TMB's (8021)	SRO / DRO / MRO)	les/8082 PCB's	1504.1)	0 or 8270SIMS		NO ₃ , NO ₂ , PO ₄ , SO ₄		(OA)	Total Coliform (Present/Absent)	و ک				
Date Time Matrix Sample Name $\boxed{\frac{1}{2}}$	Container Type and #	Kincluding CF): Sz. Preservative Type	7008585	χ btex / mtb	ZTPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	CI, F, Br, NC	8260 (VOA)	8270 (Semi-VOA)	Total Coliform	X Chlorid		_		
9:04 (omp-S-NI 9:04 (omp-S-EZ	Glass	Ice	-001	1	<u>م</u> ۱												+	-
9:08 Comp-5-33			-003															
9:12 Comp-S-W4 9:16 B5-N1			-004 -005														\pm	+
9:20 BG-E2 9:21 BG-53			-004 -007		+										_	-		
+ 9:28 _ B6-8W4		1	-425	4	Ţ									F		_	+	_
		·																
Date: Time: Relinquished by: ⁸ / ₂₁ / ₂₀ (530) Date: Time: Relinquished by: ⁸ / ₂₁ / ₂₀ (Auromne)	Received by: WWW Received by: CM	Via: Via: Via:	$\begin{array}{c c} \text{Date} & \text{Time} \\ \hline & \partial 5 & \partial 5 & \mathbf{153D} \\ \hline & \text{Date} & \text{Time} \\ \hline & \mathcal{8} & \mathcal{121} & \mathcal{200800} \end{array}$	-	narki Zi ^r l	s: //		. Į) Deri))/1	l,ª 3.	えま	0=	- 3,	/ /			

hereit

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January 06, 2021

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

RE: COWPENS 28 FED COM #1

Enclosed are the results of analyses for samples received by the laboratory on 12/31/20 15:50.

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

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. Keine

Celey D. Keene Lab Director/Quality Manager



DEVON - EDDY COUNTY

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

Analytical Results For:

	PIMA ENVIROMEN CHRIS JONES 1601 N TURNER HOBBS NM, 88240 Fax To:	STE. 500	
Received:	12/31/2020	Sampling Date:	12/31/2020
Reported:	01/06/2021	Sampling Type:	Soil
Project Name:	COWPENS 28 FED COM #1	Sampling Condition:	** (See Notes)
Project Number:	44	Sample Received By:	Jodi Henson

Sample ID: BG - 2E (H003370-01)

Project Location:

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	01/04/2021	ND	1.95	97.7	2.00	2.50	
Toluene*	<0.050	0.050	01/04/2021	ND	1.86	93.2	2.00	3.88	
Ethylbenzene*	<0.050	0.050	01/04/2021	ND	1.94	97.0	2.00	3.74	
Total Xylenes*	<0.150	0.150	01/04/2021	ND	5.56	92.6	6.00	3.12	
Total BTEX	<0.300	0.300	01/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	01/05/2021	ND	416	104	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	01/04/2021	ND	219	110	200	3.60	
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					
Surrogate: 1-Chlorooctane	98.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.7	% 42.2-15	6						

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*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent'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 whatscever 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 whose of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor 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.

Celez D. Keine

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Received by OCD: 3/17/2021 12:00:16 AM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	· Pima Environent	AI						1			LL TO					ANALYSIS REQUEST
Project Manage	" Chris Jones							P.0	. #: 0	20	741816	f				
Address: 160	OLN. Turner stess	oo						Con	npan	y:	Devor	2	1			
City: Hobb			: 8	82	240	С				-	MAth					
	-631-6977 Fax #:							Add	ress							
Project #: 44		er: /)e	vo	N			City	:							
	COWPENS 28 Fed Com		-					Stat	-		Zip:	_				
	: EDDY County								ne #:				1			
Sampler Name:	MORK Newcomb						-	Fax								
FOR LAB USE ONLY		Π			MA	TRIX	_		PRESE	RV.	SAMP	PLING	EXT		e	
Lab I.D. H D03370 1	Sample I.D. Bb - 2E	< (G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	VASIEWATER SOIL	OIL	- SLUDGE	OTHER :	ACID/BASE:	OTHER :	DATE 2/31/20	TIME	S THP E	1 BTEX	1 Chlorid	
analyses. All claims includin service. In no event shall Ca	d Damages. Cardinal's liability and client's exclusive remedy for g those for negligence and any other cause whatsoever shall be rinal be liable for incidental or consequential damages, includi g out of or related to the performance of services hereunder by Date: 500 Date: 500 Time: 500	deemed g without Cardinal,	imital regard	d unless tion, bus tless of t ed B	s made i iness in whether Y:	n writin terrupti such c	g and r ons, los laim is	eceiver as of us based	d by Caro se, or loss upon an	dinal wi s of pro y of the	ithin 30 days after offits incurred by cli above stated reas	completion of th ent, its subsidiar sons or otherwis Verbal Res	ne applicabl ies, ie. sult:	□ Yes		No Add'I Phone #: provide Email address:
Relinquished By Delivered By: (Ci	Time:	0		ed B Sa	y: mple	Con	ditio		СНІ			REMARKS	Bill		Standar	eron Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - E	Bus - Other: Corrected Temp. °C				Yes		Yes		4	n		Thermometer Correction F				Yes Yes No Corrected Temp. °C

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

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

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

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

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

CONDITIONS

Operator:	OGRID:
Pima Environmental Services, LLC	329999
5614 N Lovington Hwy	Action Number:
Hobbs, NM 88240	20944
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	1/12/2023

CONDITIONS

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Action 20944