



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

October 28, 2020

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

Re: Site Remediation and Closure Report
Arcturus 18 Federal #1H
API No. 30-015-38237
GPS: Latitude 32.6665878 Longitude -103.9007874
UL "A", Sec. 18, T19S, R31E
Eddy County, NM
NMOCD Ref. No. 2RP-3979; 2RP-5348

Dear Mr. Bratcher,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and to perform remediation activities for an oil release that occurred at the Arcturus 18 Fed #1H (Arcturus). The initial C-141 for this incident was submitted on 11-8-16 (Appendix C). This incident was assigned 2RP-3979, Incident ID NAB1631440104, by the New Mexico Oil Conservation Division (NMOCD). The initial C-141 for the incident given 2RP-5348 was submitted on 4-1-19 and was assigned Incident ID NAB1909944395.

Site Characterization

The Arcturus is located approximately twenty-five (25) miles northeast of Carlsbad, NM. This spill site is in Unit A, Section 18, Township 19S, Range 31E, Latitude 32.6665878, Longitude -103.9007874, Eddy County, NM. Figure 1 references a location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- Eolian and piedmont deposits (Holocene to middle Pleistocene)-interlayered eolian sands and piedmont-slope deposits (QEP). The soil in this area is made up of Berino loamy fine sand, 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 Arcturus (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 180 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the most relative groundwater is greater than 100 feet BGS. The closest waterway and is a playa, located approximately 2.57 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 B)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
180'	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 was less than 50 feet per Rule 19.15.29					
Water Issues				Yes	No
Within 300 feet of any continuously flowing watercourse or any other significant watercourse					x
Within 200 feet of any lakebed, sinkhole, or playa lake (measures from the ordinary high-water mark)					x
Within 300 feet from an occupied permanent residence, school, hospital, institution, or church					x
Within 500 feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock water purposes					x
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

2RP-3979: On November 1, 2016, the 2-phase separator dump valve failed and remained closed, resulting in 175 bbls of produced water released into the engineered steel and poly-lined containment. Three gallons were released outside the containment onto the ground near the 2-phase separator. The volume release totaled 175.07 bbls of produced water in which a vac truck was able to recover 175 bbls of the released fluids.

2RP-5348: On March 30, 2019, overflow alarms failed, causing tanks to run over, resulting in a release of 120 bbls of produced water into the engineered steel and poly-lined containment. A vac truck was dispatched and recovered the 120 bbls of released fluids.

Site Assessment and Soil Sampling Results

On August 6, 2020, Pima Environmental conducted a site assessment and obtained soil samples to get a more in-depth picture of the contamination's horizontal extent. The laboratory results of this sampling event can be found in the following data table.

8-6-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date 8-6-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1 N. Composite	0	ND	ND	ND	67	250	317	5700
S-2 E. Composite	0	ND	ND	ND	37	130	167	ND
S-3 S. Composite	0	ND	ND	ND	1200	1600	2800	2900
S-4 W. Composite	0	ND	ND	ND	4000	4400	8400	2000
BG-1	0	ND	ND	ND	ND	ND	ND	17000
BG-2	0	ND	ND	ND	ND	ND	ND	390
BG-4	0	ND	ND	ND	ND	ND	ND	ND
BG-5	0	ND	ND	ND	1300	1200	2500	ND
BG-6	0	ND	ND	ND	ND	ND	ND	ND

ND- Analyte Not Detected

Remediation Activities

On September 9, 2020, Pima mobilized personnel and equipment to conduct remedial activities. The vicinity of the south and west sides of the containment was excavated to a depth of 0.5-foot-deep and extended horizontally from the containment 3-feet. Confirmation bottom and sidewall composite samples were obtained to ensure that the contamination's vertical and horizontal extents had been removed. Each composite sample was representative of no more than 200 square feet. The laboratory results of this sampling event can be found in the following data table.

9-9-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date 9-9-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1 W. Bottom Comp	0.5	ND	ND	ND	52	48.1	100.1	6530
S-2 W. Sidewall Comp	0.5	ND	ND	ND	10.1	15.3	25.4	80
S-3 S. Bottom Comp	0.5	ND	ND	ND	ND	ND	ND	256
S-4 S. Sidewall Comp	0.5	ND	ND	ND	ND	ND	ND	1520
S-5 S. Bottom Comp	0.5	ND	ND	ND	ND	ND	ND	304
S-6 S. Sidewall Comp	0.5	ND	ND	ND	ND	ND	ND	48
S-7 N. Bottom Comp	0.5	ND	ND	ND	ND	ND	ND	80
S-8 N Sidewall Comp	0.5	ND	ND	ND	ND	ND	ND	96
S-9 E. Bottom Comp	0.5	ND	ND	ND	ND	ND	ND	48
S-10 E. Sidewall Comp	0.5	ND	ND	ND	ND	ND	ND	32
S-11 S. Sidewall Comp	0.5	ND	ND	ND	ND	ND	ND	48
S-12 S. Bottom Comp	0.5	ND	ND	ND	ND	ND	ND	16
S-13 W. Bottom Comp	0.5	ND	ND	ND	ND	ND	ND	32
S-14 W. Sidewall Comp	0.5	ND	ND	ND	ND	ND	ND	32

ND- Analyte Not Detected

Complete Laboratory Reports are attached in Appendix C.

Based on the sample results, the bottom and sidewall composite samples were below NMOCD Closure Criteria 19.15.29 NMAC.

The contaminated material was transported to Lea Land, an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted, and contoured to match the surrounding terrain.

Closure Request

After careful review, Pima requests that these incidents, NAB1631440104 and NAB1909944395, be closed. Devon has complied with the applicable closure requirements.

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- 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



Pima Environmental Services

Figures:

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

Devon Energy

Arcturus 18 Federal #1H
API 30-015-38237
Eddy County, NM
Location Map

Arcturus 18 1&2 Battery

360

Bluestem Rd

243

Buffalo Grass Rd

62

176

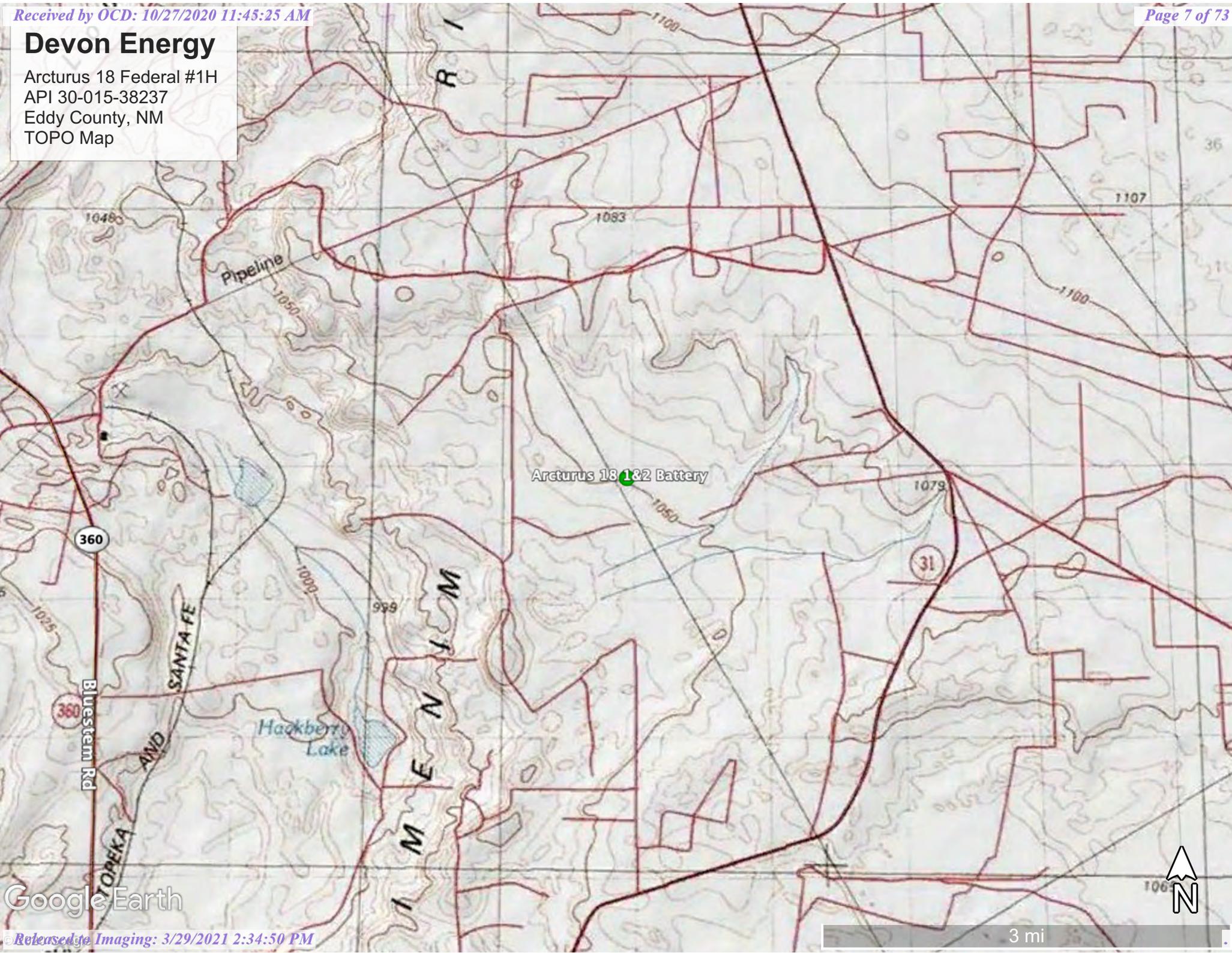


7 mi

Google Earth

Devon Energy

Arcturus 18 Federal #1H
API 30-015-38237
Eddy County, NM
TOPO Map

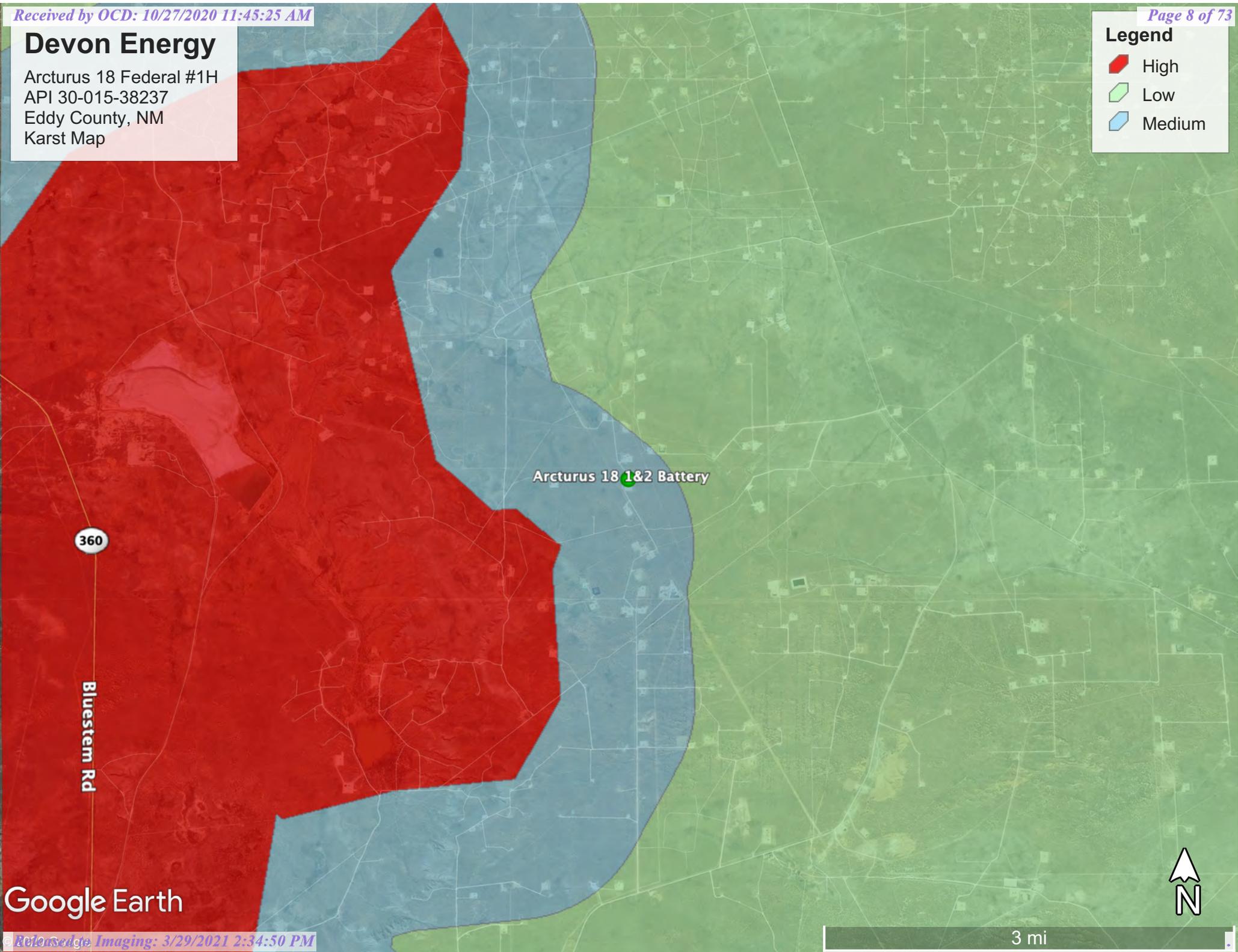


Devon Energy

Arcturus 18 Federal #1H
API 30-015-38237
Eddy County, NM
Karst Map

Legend

- High
- Low
- Medium



Arcturus 18 1&2 Battery

360

Bluestem Rd

Google Earth



Devon Energy

Arcturus 18 Federal #1H
API 30-015-38237
Eddy County, NM
Site Map

Legend

- Arcturus 18 1&2 Battery
- ⊙ Samples



100 ft



Pima Environmental Services

Appendix A
Water Surveys:
OSE
USGS



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP00873 POD1		CP	LE	1	1	19	19S	31E		601772	3613147*	2150	340	180	160

Average Depth to Water: **180 feet**
 Minimum Depth: **180 feet**
 Maximum Depth: **180 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 603074

Northing (Y): 3614858.76

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 10:35 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
	CP 00873 POD1	1 1 19	19S	31E	601772	3613147*	

Driller License:	421	Driller Company:	GLENN'S WATER WELL SERVICE			
Driller Name:	GLENN, CLARK A."CORKY"					
Drill Start Date:	01/02/1998	Drill Finish Date:	01/05/1998	Plug Date:		
Log File Date:	01/15/1998	PCW Rcv Date:		Source: Shallow		
Pump Type:		Pipe Discharge Size:		Estimated Yield: 50 GPM		
Casing Size:	6.62	Depth Well:	340 feet	Depth Water: 180 feet		

Water Bearing Stratifications:	Top	Bottom	Description
	240	320	Shallow Alluvium/Basin Fill

Casing Perforations:	Top	Bottom
	226	340

Meter Number:	805	Meter Make:	MASTER
Meter Serial Number:	1748543	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/1999	1999	37400	A	fm		0
01/15/1999	1999	43541	A	fm		1.885
04/27/2000	2000	14849	R	jw	Meter Rollover	298.083
07/31/2000	2000	24399	A	jw		2.931

**YTD Meter Amounts:	Year	Amount
	1999	1.885
	2000	301.014

*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 10:35 AM

POINT OF DIVERSION SUMMARY



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 =

- 324241103561201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

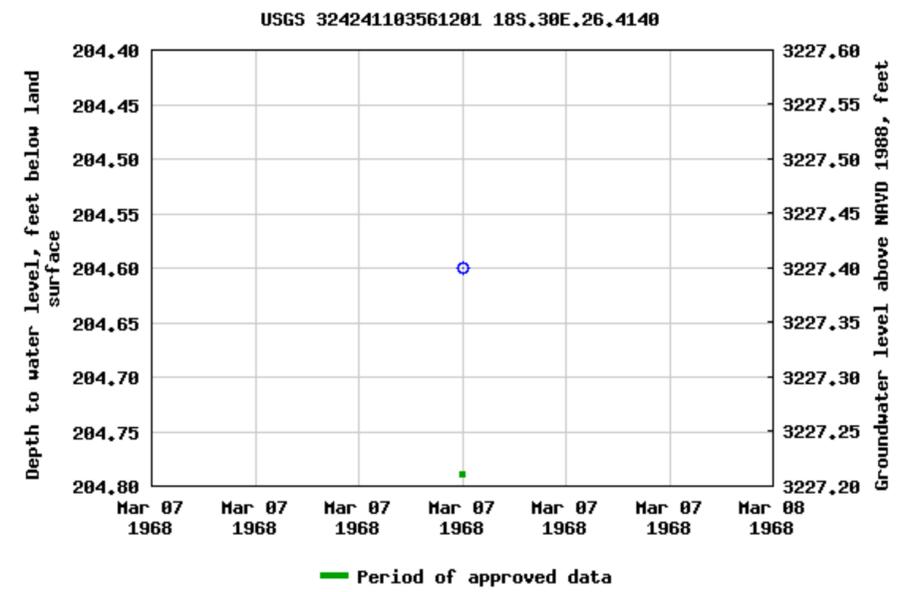
USGS 324241103561201 18S.30E.26.4140

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico
 Hydrologic Unit Code 13060011
 Latitude 32°42'41", Longitude 103°56'12" NAD27
 Land-surface elevation 3,432 feet above NAVD88
 The depth of the well is 230 feet below land surface.
 This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table_of_data
Tab-separated_data
Graph_of_data
Reselect_period



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

- [Questions about sites/data?](#)
- [Feedback on this web site](#)
- [Automated retrievals](#)
- [Help](#)

- [Data Tips](#)
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National Water Information System: Mapper

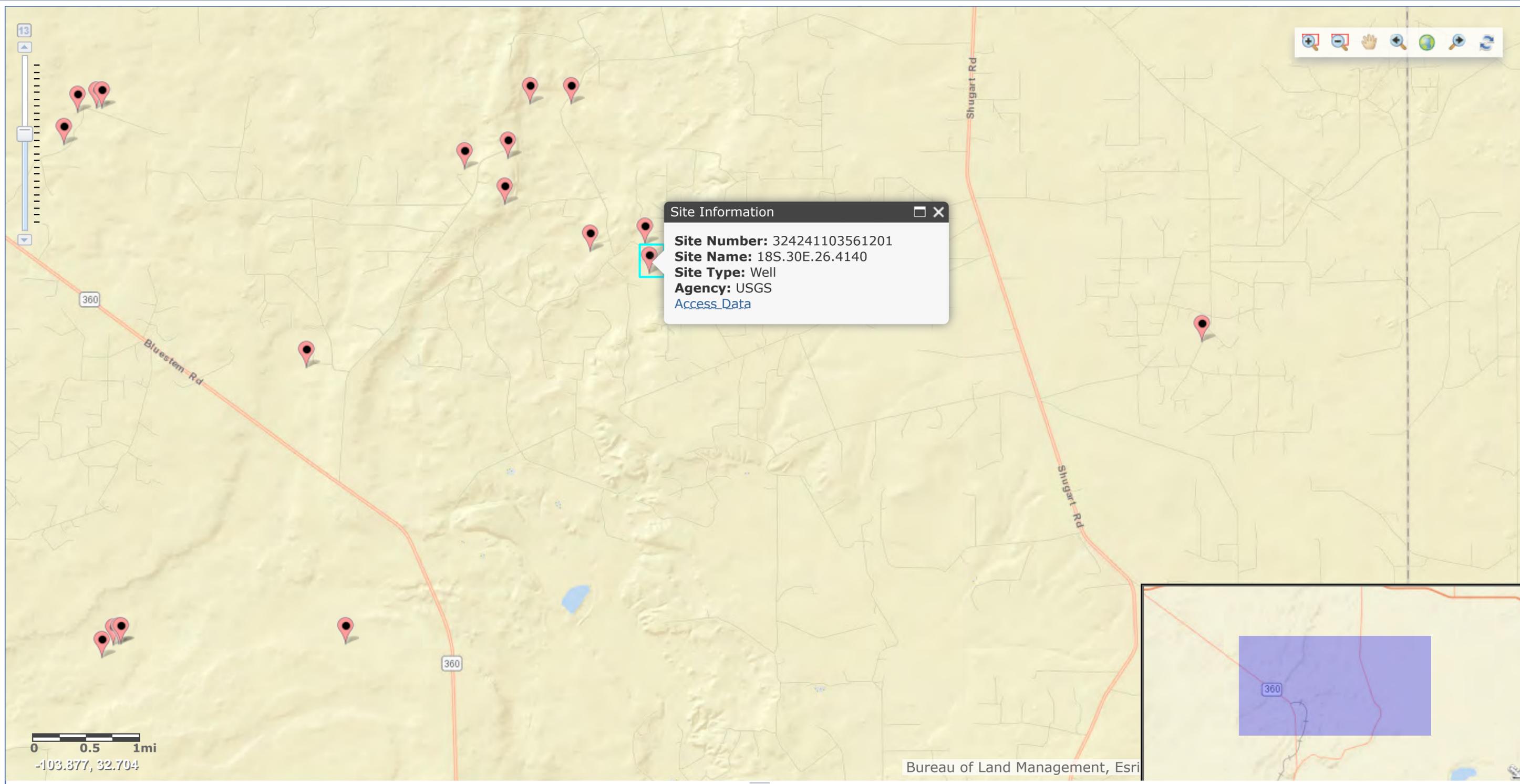
Help Info

Sites Map

Search

- Surface-Water Sites
- Groundwater Sites
 - Active Sites
 - Any data
 - Instantaneous data
 - Daily data
 - Water-quality data
 - Measurements
 - Annual Report
 - Inactive Sites
 - Any data
 - Instantaneous data
 - Daily data
 - Water-quality data
 - Measurements
 - Annual Report
- Springs
- Atmospheric Sites
- Other Sites

Released to Imaging: 3/29/2021 2:34:50 PM



Bureau of Land Management, Esri

Site Information

Devon Energy

Arcturus 18 Fed #1H
API 30-015-38237
Eddy County, NM
Surface Water Map

Legend

-  2.57 Miles
-  Surface Water

Arcturus 18 1&2 Battery

2.57 Miles



1 mi



Pima Environmental Services

Appendix B
Soil Survey & Geological Data:
USDA

Map Unit Description: Berino loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

BA—Berino loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w42
Elevation: 2,000 to 5,700 feet
Mean annual precipitation: 6 to 14 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 99 percent
Minor components: 1 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

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 12 inches: loamy fine sand
H2 - 12 to 58 inches: sandy clay loam
H3 - 58 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
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 content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B

Map Unit Description: Berino loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 1 percent
Ecological site: R042XC003NM - Loamy Sand
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



103°54'22"W 32°40'15"N



USGS The National Map: Orthoimagery. Data refreshed April 2020



103°53'44"W 32°39'45"N

Legend

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

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth Zone AE, AO, AH, VE, AR
 - Regulatory Floodway
 - OTHER AREAS OF FLOOD HAZARD**
 - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual Chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
 - Area with Flood Risk due to Levee Zone D
 - OTHER AREAS**
 - NO SCREEN Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
 - GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
 - OTHER FEATURES**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
 - MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/6/2020 at 12:29 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.



Pima Environmental Services

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

NOV 08 2016

Form C-141
Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action

NAB 1031440104

OPERATOR

Initial Report Final Report

Name of Company Devon Energy Production Company <i>4137</i>		Contact Danny Velo, Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210		Telephone No. 575-703-3360
Facility Name Arcturus 18 Federal #1H		Facility Type Oil
Surface Owner Federal	Mineral Owner Federal	API No 30-015-38237

LOCATION OF RELEASE

Unit Letter A	Section 18	Township 19S	Range 31E	Feet from the 400	North/South Line North	Feet from the 200	East/West Line East	County Eddy
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Latitude: 32.6665878 **Longitude:** -103.9007874

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 175.07 BBLs	Volume Recovered 175 BBLs
Source of Release 2 phase separator dump valve	Date and Hour of Occurrence 11/1/2016 @ 7:55pm	Date and Hour of Discovery 11/1/2016 @ 7:55pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD-Mike Bratcher BLM- Jim Amos	
By Whom? Hubert Perry, Night Production Foreman	Date and Hour OCD- 11/2/2016 @ 5:35am BLM- 11/2/2016 @ 5:20am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.*

The 2 phase separator dump valve hung failed closed resulting in 175 BBLs produced water to be release into lined containment and another 3 gallons was released onto the ground near the 2 phase separator. Switched all wells on header from production to test to prevent further release.

Describe Area Affected and Cleanup Action Taken.*

175 BBLs of produced water was released from 2 phase separator dump valve into lined containment with an additional 3 gallons being released onto the ground near the 2 phase separator. The 175 BBLs produced water released into lined containment remained in lined containment, the 3 gallons released onto the ground was not recoverable. None of the released fluid left location. The liner was checked for holes and no holes were found. Vacuum truck recovered all 175 BBLs of the released produced water that was in lined containment. Environmental agency will be contacted for remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Sarah Gallegos-Troublefield</i>	OIL CONSERVATION DIVISION	
Printed Name: Sarah Gallegos-Troublefield	Signed By <i>Mike Bratcher</i>	
Title: Field Admin Support	Approval Date: <i>11/9/16</i>	Expiration Date: <i>N/A</i>
E-mail Address: Sarah.Gallegos-Troublefield@dmv.com	Conditions of Approval:	Attached <input checked="" type="checkbox"/>
Date: 11/8/2016 Phone: 575.748.1864		

* Attach Additional Sheets If Necessary

2RP-3979

Bratcher, Mike, EMNRD

From: Gallegos-Troublefield, Sarah <Sarah.Gallegos-Troublefield@dvn.com>
Sent: Tuesday, November 08, 2016 8:35 AM
To: jamos@blm.gov; Tucker, Shelly; Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD
Cc: Fulks, Brett
Subject: Arcturus 18 Federal #1H_175.07 BBLs PW_11-1-2016_Initial C-141
Attachments: Arcturus 18 Federal 1H_175.07 BBLs PW_11-1-16_GIS Image.pdf; Arcturus 18 Federal 1H_175.07 BBLs PW_11-1-16_Initial C-141.doc

Good Morning,

Please find attached the Initial C-141 and the GIS Image of the Arcturus 18 Federal #1H release of 175.07 BBLs produced water that occurred on 11/1/2016. Please be advised that the two blue dots in the GIS Image represents the approximate location of the origin of the release.
Please contact me with any questions you may have.

Thank you very much and have a wonderful day.

Respectfully,

Sarah Gallegos-Troublefield
Field Admin Support
Production

Devon Energy Corporation
P.O. Box 250
Artesia, NM 88211
575 748 1864 Direct Line



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District I
1625 N. French Dr., Hobbs, NM 88240
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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
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
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 best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: _____ Title: _____ Signature: <u>Kendra DeHoyos</u> Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: <u>Ana P. Ramirez</u> 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?	_____ 180 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	NAB1631440104
District RP	2RP-3979
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Tom Bynum Title: EHS Consultant

Signature: *Tom Bynum* Date: 10/27/2020

email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1631440104
District RP	2RP-3979
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: Tom Bynum Title: EHS Consultant
 Signature: *Tom Bynum* Date: 10/27/2020
 email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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?	_____ 180 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	NAB1909944395
District RP	2RP-5348
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Tom Bynum Title: EHS Consultant

Signature: *Tom Bynum* Date: 10/27/2020

email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1909944395
District RP	2RP-5348
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: Tom Bynum Title: EHS Consultant
 Signature: *Tom Bynum* Date: 10/27/2020
 email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Pima Environmental Services

Appendix D:
Photographic Documentation

EXCAVATION



BACKFILLED AND COMPLETED





Pima Environmental Services

Appendix E:
Laboratory Results



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

August 17, 2020

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

RE: Arcturns 18 1&2 Battery

OrderNo.: 2008379

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/7/2020 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2008379**

Date Reported: **8/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S1-Comp

Project: Arcturns 18 1&2 Battery

Collection Date: 8/6/2020 10:00:00 AM

Lab ID: 2008379-001

Matrix: SOIL

Received Date: 8/7/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	67	8.7		mg/Kg	1	8/13/2020 6:40:27 PM
Motor Oil Range Organics (MRO)	250	43		mg/Kg	1	8/13/2020 6:40:27 PM
Surr: DNOP	104	30.4-154		%Rec	1	8/13/2020 6:40:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/12/2020 7:28:21 PM
Surr: BFB	104	75.3-105		%Rec	1	8/12/2020 7:28:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/12/2020 7:28:21 PM
Toluene	ND	0.050		mg/Kg	1	8/12/2020 7:28:21 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/12/2020 7:28:21 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/12/2020 7:28:21 PM
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	8/12/2020 7:28:21 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	5700	300		mg/Kg	100	8/15/2020 1:00:54 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2008379**

Date Reported: **8/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S2-Comp

Project: Arcturns 18 1&2 Battery

Collection Date: 8/6/2020 10:05:00 AM

Lab ID: 2008379-002

Matrix: SOIL

Received Date: 8/7/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	37	9.9		mg/Kg	1	8/13/2020 7:04:30 PM
Motor Oil Range Organics (MRO)	130	50		mg/Kg	1	8/13/2020 7:04:30 PM
Surr: DNOP	116	30.4-154		%Rec	1	8/13/2020 7:04:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/12/2020 9:49:07 PM
Surr: BFB	101	75.3-105		%Rec	1	8/12/2020 9:49:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/12/2020 9:49:07 PM
Toluene	ND	0.050		mg/Kg	1	8/12/2020 9:49:07 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/12/2020 9:49:07 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/12/2020 9:49:07 PM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	8/12/2020 9:49:07 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	8/14/2020 4:14:11 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2008379**

Date Reported: **8/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S3-Comp

Project: Arcturns 18 1&2 Battery

Collection Date: 8/6/2020 10:10:00 AM

Lab ID: 2008379-003

Matrix: SOIL

Received Date: 8/7/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	1200	180		mg/Kg	20	8/12/2020 7:14:01 PM
Motor Oil Range Organics (MRO)	1600	880		mg/Kg	20	8/12/2020 7:14:01 PM
Surr: DNOP	0	30.4-154	S	%Rec	20	8/12/2020 7:14:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/12/2020 10:59:22 PM
Surr: BFB	101	75.3-105		%Rec	1	8/12/2020 10:59:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/12/2020 10:59:22 PM
Toluene	ND	0.050		mg/Kg	1	8/12/2020 10:59:22 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/12/2020 10:59:22 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/12/2020 10:59:22 PM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	8/12/2020 10:59:22 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	2900	150		mg/Kg	50	8/15/2020 1:13:18 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2008379

Date Reported: 8/17/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S4-Comp

Project: Arcturns 18 1&2 Battery

Collection Date: 8/6/2020 10:15:00 AM

Lab ID: 2008379-004

Matrix: SOIL

Received Date: 8/7/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	4000	440		mg/Kg	50	8/12/2020 7:24:02 PM
Motor Oil Range Organics (MRO)	4400	2200		mg/Kg	50	8/12/2020 7:24:02 PM
Surr: DNOP	0	30.4-154	S	%Rec	50	8/12/2020 7:24:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	8/13/2020 12:09:42 AM
Surr: BFB	98.5	75.3-105	D	%Rec	5	8/13/2020 12:09:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	8/13/2020 12:09:42 AM
Toluene	ND	0.25	D	mg/Kg	5	8/13/2020 12:09:42 AM
Ethylbenzene	ND	0.25	D	mg/Kg	5	8/13/2020 12:09:42 AM
Xylenes, Total	ND	0.50	D	mg/Kg	5	8/13/2020 12:09:42 AM
Surr: 4-Bromofluorobenzene	104	80-120	D	%Rec	5	8/13/2020 12:09:42 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	2000	61		mg/Kg	20	8/14/2020 4:39:01 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2008379

Date Reported: 8/17/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG1

Project: Arcturns 18 1&2 Battery

Collection Date: 8/6/2020 10:20:00 AM

Lab ID: 2008379-005

Matrix: SOIL

Received Date: 8/7/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	8/12/2020 7:33:56 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/12/2020 7:33:56 PM
Surr: DNOP	108	30.4-154		%Rec	1	8/12/2020 7:33:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/13/2020 12:33:05 AM
Surr: BFB	101	75.3-105		%Rec	1	8/13/2020 12:33:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/13/2020 12:33:05 AM
Toluene	ND	0.050		mg/Kg	1	8/13/2020 12:33:05 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/13/2020 12:33:05 AM
Xylenes, Total	ND	0.099		mg/Kg	1	8/13/2020 12:33:05 AM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	8/13/2020 12:33:05 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	17000	600		mg/Kg	200	8/15/2020 1:25:42 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2008379**

Date Reported: **8/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG2

Project: Arcturns 18 1&2 Battery

Collection Date: 8/6/2020 10:25:00 AM

Lab ID: 2008379-006

Matrix: SOIL

Received Date: 8/7/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	8/12/2020 7:43:54 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/12/2020 7:43:54 PM
Surr: DNOP	93.6	30.4-154		%Rec	1	8/12/2020 7:43:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/13/2020 12:56:30 AM
Surr: BFB	100	75.3-105		%Rec	1	8/13/2020 12:56:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/13/2020 12:56:30 AM
Toluene	ND	0.049		mg/Kg	1	8/13/2020 12:56:30 AM
Ethylbenzene	ND	0.049		mg/Kg	1	8/13/2020 12:56:30 AM
Xylenes, Total	ND	0.098		mg/Kg	1	8/13/2020 12:56:30 AM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	8/13/2020 12:56:30 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	390	60		mg/Kg	20	8/14/2020 5:03:51 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2008379**

Date Reported: **8/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG4

Project: Arcturns 18 1&2 Battery

Collection Date: 8/6/2020 10:30:00 AM

Lab ID: 2008379-007

Matrix: SOIL

Received Date: 8/7/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	8/12/2020 5:42:22 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/12/2020 5:42:22 PM
Surr: DNOP	94.2	30.4-154		%Rec	1	8/12/2020 5:42:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/13/2020 1:20:02 AM
Surr: BFB	99.2	75.3-105		%Rec	1	8/13/2020 1:20:02 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/13/2020 1:20:02 AM
Toluene	ND	0.048		mg/Kg	1	8/13/2020 1:20:02 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/13/2020 1:20:02 AM
Xylenes, Total	ND	0.097		mg/Kg	1	8/13/2020 1:20:02 AM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	8/13/2020 1:20:02 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	8/14/2020 5:41:04 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2008379**

Date Reported: **8/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG5

Project: Arcturns 18 1&2 Battery

Collection Date: 8/6/2020 10:35:00 AM

Lab ID: 2008379-008

Matrix: SOIL

Received Date: 8/7/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	1300	98		mg/Kg	10	8/12/2020 6:54:41 PM
Motor Oil Range Organics (MRO)	1200	490		mg/Kg	10	8/12/2020 6:54:41 PM
Surr: DNOP	0	30.4-154	S	%Rec	10	8/12/2020 6:54:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/13/2020 1:43:27 AM
Surr: BFB	97.1	75.3-105		%Rec	1	8/13/2020 1:43:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/13/2020 1:43:27 AM
Toluene	ND	0.048		mg/Kg	1	8/13/2020 1:43:27 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/13/2020 1:43:27 AM
Xylenes, Total	ND	0.096		mg/Kg	1	8/13/2020 1:43:27 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	8/13/2020 1:43:27 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	8/14/2020 5:53:28 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2008379

Date Reported: 8/17/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG6

Project: Arcturns 18 1&2 Battery

Collection Date: 8/6/2020 10:40:00 AM

Lab ID: 2008379-009

Matrix: SOIL

Received Date: 8/7/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	8/12/2020 7:18:44 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/12/2020 7:18:44 PM
Surr: DNOP	102	30.4-154		%Rec	1	8/12/2020 7:18:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/13/2020 2:06:48 AM
Surr: BFB	100	75.3-105		%Rec	1	8/13/2020 2:06:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/13/2020 2:06:48 AM
Toluene	ND	0.047		mg/Kg	1	8/13/2020 2:06:48 AM
Ethylbenzene	ND	0.047		mg/Kg	1	8/13/2020 2:06:48 AM
Xylenes, Total	ND	0.094		mg/Kg	1	8/13/2020 2:06:48 AM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	8/13/2020 2:06:48 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	8/14/2020 6:05:53 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008379

17-Aug-20

Client: Pima Environmental Services LLC

Project: Arcturns 18 1&2 Battery

Sample ID: MB-54405	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54405	RunNo: 71086								
Prep Date: 8/13/2020	Analysis Date: 8/14/2020	SeqNo: 2478034	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54405	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54405	RunNo: 71086								
Prep Date: 8/13/2020	Analysis Date: 8/14/2020	SeqNo: 2478035	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008379

17-Aug-20

Client: Pima Environmental Services LLC

Project: Arcturns 18 1&2 Battery

Sample ID: MB-54338	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54338	RunNo: 71011								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474097	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		111	30.4	154			

Sample ID: LCS-54338	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54338	RunNo: 71011								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474098	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		101	30.4	154			

Sample ID: MB-54340	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54340	RunNo: 71011								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474101	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		123	30.4	154			

Sample ID: LCS-54340	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54340	RunNo: 71011								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474102	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	10	50.00	0	128	70	130			
Surr: DNOP	5.9		5.000		119	30.4	154			

Sample ID: 2008379-007AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BG4	Batch ID: 54340	RunNo: 71011								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474807	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.8	48.83	0	97.4	47.4	136			
Surr: DNOP	4.9		4.883		100	30.4	154			

Sample ID: 2008379-007AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BG4	Batch ID: 54340	RunNo: 71011								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474808	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.2	45.79	0	103	47.4	136	0.816	43.4	

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008379

17-Aug-20

Client: Pima Environmental Services LLC

Project: Arcturns 18 1&2 Battery

Sample ID: 2008379-007AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BG4	Batch ID: 54340	RunNo: 71011								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474808	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		4.579		106	30.4	154	0	0	

Sample ID: LCS-54339	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54339	RunNo: 71030								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474930	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	120	70	130			
Surr: DNOP	4.5		5.000		90.9	30.4	154			

Sample ID: LCS-54341	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54341	RunNo: 71030								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474931	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		113	30.4	154			

Sample ID: MB-54339	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54339	RunNo: 71030								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474932	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	9.8		10.00		98.3	30.4	154			

Sample ID: MB-54341	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54341	RunNo: 71030								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474933	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		129	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008379

17-Aug-20

Client: Pima Environmental Services LLC

Project: Arcturns 18 1&2 Battery

Sample ID: mb-54303	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 54303	RunNo: 71021								
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	SeqNo: 2474593	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-54303	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 54303	RunNo: 71021								
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	SeqNo: 2474594	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.2	72.5	106			
Surr: BFB	1100		1000		109	75.3	105			S

Sample ID: mb-54306	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 54306	RunNo: 71021								
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	SeqNo: 2474617	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	1100		1000		105	75.3	105			S

Sample ID: ics-54306	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 54306	RunNo: 71021								
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	SeqNo: 2474618	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.8	72.5	106			
Surr: BFB	1200		1000		116	75.3	105			S

Sample ID: 2008379-003ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S3-Comp	Batch ID: 54306	RunNo: 71021								
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	SeqNo: 2474621	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.80	0	86.0	61.3	114			
Surr: BFB	1100		992.1		108	75.3	105			S

Sample ID: 2008379-003amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S3-Comp	Batch ID: 54306	RunNo: 71021								
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	SeqNo: 2474622	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008379

17-Aug-20

Client: Pima Environmental Services LLC

Project: Arcturns 18 1&2 Battery

Sample ID: 2008379-003amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S3-Comp	Batch ID: 54306	RunNo: 71021								
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	SeqNo: 2474622 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	24.98	0	88.8	61.3	114	3.90	20	
Surr: BFB	1100		999.0		110	75.3	105	0	0	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008379

17-Aug-20

Client: Pima Environmental Services LLC

Project: Arcturns 18 1&2 Battery

Sample ID: mb-54303	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 54303	RunNo: 71021								
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	SeqNo: 2474639	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	1.0		1.000		104	80	120			

Sample ID: LCS-54303	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 54303	RunNo: 71021								
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	SeqNo: 2474640	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.2	80	120			
Toluene	0.95	0.050	1.000	0	95.1	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID: mb-54306	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 54306	RunNo: 71021								
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	SeqNo: 2474663	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		109	80	120			

Sample ID: LCS-54306	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 54306	RunNo: 71021								
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	SeqNo: 2474664	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	93.0	80	120			
Toluene	0.93	0.050	1.000	0	93.2	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008379

17-Aug-20

Client: Pima Environmental Services LLC

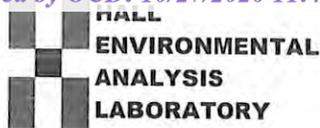
Project: Arcturns 18 1&2 Battery

Sample ID: 2008379-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S2-Comp	Batch ID: 54306	RunNo: 71021								
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	SeqNo: 2474666	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9709	0	94.1	76.3	120			
Toluene	0.92	0.049	0.9709	0.01380	93.6	78.5	120			
Ethylbenzene	0.93	0.049	0.9709	0	96.2	78.1	124			
Xylenes, Total	2.8	0.097	2.913	0.01887	96.7	79.3	125			
Surr: 4-Bromofluorobenzene	1.1		0.9709		109	80	120			

Sample ID: 2008379-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S2-Comp	Batch ID: 54306	RunNo: 71021								
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	SeqNo: 2474667	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9833	0	94.4	76.3	120	1.66	20	
Toluene	0.95	0.049	0.9833	0.01380	94.9	78.5	120	2.61	20	
Ethylbenzene	0.95	0.049	0.9833	0	96.6	78.1	124	1.62	20	
Xylenes, Total	2.9	0.098	2.950	0.01887	96.7	79.3	125	1.21	20	
Surr: 4-Bromofluorobenzene	1.1		0.9833		109	80	120	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 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



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

Sample Log-In Check List

Client Name: Pima Environmental Services LLC Work Order Number: 2008379 RcptNo: 1

Received By: Cheyenne Cason 8/7/2020 8:00:00 AM

Completed By: Emily Mocho 8/7/2020 11:13:27 AM

Reviewed By: [Signature] 8/7/20

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered?

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: SPA 8.7.20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1-4.

Chain-of-Custody Record

Client: Pima Environmental
 Mailing Address: 1601 N. Turner STE. 500
Hobbs, NM 88240
 Phone #: 575-631-6977
 email or Fax#: Chris@Pimaoil.com
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type)

Turn-Around Time: 5 Days
 Standard Rush
 Project Name: Arcturus 18 132 Battery
 Project #: 20738348
 Project Manager: Chris Jones

Sampler:
 On Ice: Yes No
 # of Coolers: 3
 Cooler Temp (including CF): See Remarks (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
8/6/20	10:00	Sol	51-COMP	Glass	Ice	2008379
	10:05		52-COMP			-001
	10:10		53-COMP			-002
	10:15		54-COMP			-003
	10:20		BG1			-004
	10:26		BG2			-005
	10:30		BG4			-006
	10:35		BG5			-007
	10:40		BG6			-008
						-009

Date: _____ Time: _____ Relinquished by: _____
 Date: 8/6/20 Time: 1900 Relinquished by: Arcturus
 Received by: Arcturus Date: 8/6/20 Time: 1345
 Received by: Chris Jones Date: 8/7/20 Time: 0800



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
									chloride

Remarks: 4.1±0 = 4.1c 5.9±0 = 5.9c
5.8±0 = 5.8c 0.3±0 = 0.3c
Bill to Devon

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



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

September 17, 2020

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: ARCTURUS 18 H2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/11/20 16:30.

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

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" and "K".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/09/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 1 - W - BOTTOM COMPOSITE (H002424-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74	
Total BTEX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	09/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6	
DRO >C10-C28*	52.0	10.0	09/14/2020	ND	167	83.7	200	15.5	
EXT DRO >C28-C36	48.1	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 94.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/09/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 2 - W - SIDE COMPOSITE (H002424-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74	
Total BTEX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6	
DRO >C10-C28*	10.1	10.0	09/14/2020	ND	167	83.7	200	15.5	
EXT DRO >C28-C36	15.3	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 95.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/09/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 3 - S - BOTTOM COMPOSITE (H002424-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88		
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16		
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80		
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74		
Total BTEX	<0.300	0.300	09/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	09/14/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6		
DRO >C10-C28*	<10.0	10.0	09/14/2020	ND	167	83.7	200	15.5		
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND						

Surrogate: 1-Chlorooctane 97.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/09/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 4 - S - SIDE COMPOSITE (H002424-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74	
Total BTEX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	09/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6	
DRO >C10-C28*	<10.0	10.0	09/14/2020	ND	167	83.7	200	15.5	
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/09/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 5 - S - BOTTOM COMPOSITE (H002424-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88		
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16		
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80		
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74		
Total BTEX	<0.300	0.300	09/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	09/14/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6		
DRO >C10-C28*	<10.0	10.0	09/14/2020	ND	167	83.7	200	15.5		
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND						

Surrogate: 1-Chlorooctane 97.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/09/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 - S - SIDE COMPOSITE (H002424-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74	
Total BTEX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6	
DRO >C10-C28*	<10.0	10.0	09/14/2020	ND	167	83.7	200	15.5	
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 96.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 7 - N - BOTTOM COMPOSITE (H002424-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74	
Total BTEX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6	
DRO >C10-C28*	<10.0	10.0	09/14/2020	ND	167	83.7	200	15.5	
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 8 - N - SIDE COMPOSITE (H002424-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74	
Total BTEX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6	
DRO >C10-C28*	<10.0	10.0	09/14/2020	ND	167	83.7	200	15.5	
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 96.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 9 - E - BOTTOM COMPOSITE (H002424-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74	
Total BTEX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6	
DRO >C10-C28*	<10.0	10.0	09/14/2020	ND	167	83.7	200	15.5	
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 10 - E - SIDE COMPOSITE (H002424-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74	
Total BTEX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6	
DRO >C10-C28*	<10.0	10.0	09/14/2020	ND	167	83.7	200	15.5	
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 11 - S - SIDE COMPOSITE (H002424-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88		
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16		
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80		
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74		
Total BTEX	<0.300	0.300	09/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/14/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6		
DRO >C10-C28*	<10.0	10.0	09/14/2020	ND	167	83.7	200	15.5		
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND						

Surrogate: 1-Chlorooctane 96.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 12 - S - BOTTOM COMPOSITE (H002424-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74	
Total BTEX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6	
DRO >C10-C28*	<10.0	10.0	09/14/2020	ND	167	83.7	200	15.5	
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 13 - W - BOTTOM COMPOSITE (H002424-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74	
Total BTEX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6	
DRO >C10-C28*	<10.0	10.0	09/14/2020	ND	167	83.7	200	15.5	
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/17/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 H2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	38	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 14 - W - SIDE COMPOSITE (H002424-14)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/14/2020	ND	1.99	99.4	2.00	3.88		
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16		
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80		
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74		
Total BTEX	<0.300	0.300	09/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/14/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.4	200	13.6		
DRO >C10-C28*	<10.0	10.0	09/14/2020	ND	167	83.7	200	15.5		
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND						

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Prima Environmental</i>		P.O. #: <i>2078348</i>		BILL TO		ANALYSIS REQUEST	
Project Manager: <i>Chris Jones</i>		Company: <i>Deron</i>					
Address: <i>1601 N. Turner Ste 520</i>		Attn: <i>Tom Bynum</i>					
City: <i>Hobbs</i>		Address:					
Phone #: <i>575-964-7740</i>		City:					
Project #: <i>38</i>		State:					
Project Name: <i>Aertrus 18 H2 battery</i>		Zip:					
Project Location: <i>Eddy, NM</i>		Phone #:					
Sampler Name: <i>Robert Carson</i>		Fax #:					
FOR LAB USE ONLY							
Lab I.D.:	Sample I.D.:	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL
<i>A002434</i>							
<i>1</i>	<i>S-1-W-Bottom Composite</i>						
<i>2</i>	<i>S-2-W-Side Composite</i>						
<i>3</i>	<i>S-3-S-Bottom Composite</i>						
<i>4</i>	<i>S-4-S-Side Composite</i>						
<i>5</i>	<i>S-5-S-Bottom Composite</i>						
<i>6</i>	<i>S-6-S-Side Composite</i>						
<i>7</i>	<i>S-7-N-Bottom Composite</i>						
<i>8</i>	<i>S-8-W-Side Composite</i>						
<i>9</i>	<i>S-9-E-Bottom Composite</i>						
<i>10</i>	<i>S-10-E-Side Composite</i>						
DATE		TIME		TPH EXT		BTEX	
<i>9/9/20</i>		<i>11:00</i>		<i>✓</i>		<i>✓</i>	
<i>11:03</i>		<i>11:06</i>		<i>✓</i>		<i>✓</i>	
<i>11:09</i>		<i>11:12</i>		<i>✓</i>		<i>✓</i>	
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<i>23:43</i>		<i>23:46</i>					



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Pima Environmental</u> Project Manager: <u>Gary Jones</u> Address: <u>1601 W. Turner St Ste 500</u> City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: <u>575-964-7746</u> Fax #: _____ Project #: <u>38</u> Project Owner: <u>Devon</u> Project Name: <u>Arcturus 18 H2 Battery</u> Project Location: <u>Eddy, NM</u> Sampler Name: <u>Rubert Lopez</u>		P.O. #: <u>207834</u> Company: <u>Devon</u> Attn: <u>Tan Byrum</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
FOR LAB USE ONLY Lab I.D. _____ Sample I.D. _____		BILL TO ANALYSIS REQUEST	
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether caused in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		MATRIX PRESERV. SAMPLING	
Relinquished By: <u>[Signature]</u> Date: <u>9/16/20</u> Time: <u>4:53</u> Relinquished By: _____ Date: _____ Time: _____		Received By: <u>[Signature]</u> Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____	
Delivered By: (Circle One) Observed Temp. °C <u>-8.0</u> Sampler - UPS - Bus - Other: Corrected Temp. °C _____		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) <u>JP</u>	
Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Bacteria (only) Sample Condition <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Correction Factor: None Observed Temp. °C _____ Corrected Temp. °C _____		REMARKS: _____ Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
11 S-11-S-side Composite C (G)RAB OR (C)OMP. # CONTAINERS 12 S-12-S-Bitten Composite K SOIL 13 S-13-W-Bitten Composite L SLUDGE 14 S-14-W-side Composite L OTHER:		DATE TIME 9/16/20 9:27 9:30 9:33 9:36	
TP4 EXT BTEY chloride chloride		ANALYSIS REQUEST	

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

Incident ID	NAB1909944395
District RP	2RP-5348
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: Tom Bynum Title: EHS Consultant
 Signature: *Tom Bynum* Date: 10/27/2020
 email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: Robert Hamlet Date: 3/29/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: *Robert Hamlet* Date: 3/29/2021
 Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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

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

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

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

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

CONDITIONS

Action 10864

CONDITIONS OF APPROVAL

Operator: PIMA ENVIRONMENTAL SERVICES, L Suite 500 Hobbs, NM88240	1601 N. Turner	OGRID: 329999	Action Number: 10864	Action Type: C-141
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OCD Reviewer	Condition
rhamlet	We have received your closure report and final C-141 for Incident #NAB1909944395 ARCTURUS 18 FEDERAL #001H, thank you. This closure is approved.