Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2125149254
District RP	
Facility ID	
Application ID	

Closure

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

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

[x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[x] 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)

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

[x] 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: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 9/8/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 09/08/2022

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: 12/7/2022

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2125149254
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	340 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ 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	NAPP2125149254
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Facility ID	
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Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 9/8/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 09/08/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2125149254
District RP	
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Closure

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Signature: Dale Woodall Date: 9/8/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 09/08/2022

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Pima Environmental Services
5614 N. Lovington Highway
Hobbs, NM 88240
575-964-7740

August 30, 2022

Bureau of Land Management
620 East Green Street
Carlsbad, NM 88220

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

Re: Site Assessment, Remediation, and Closure Report
Hackberry 19-1 Battery
API No. N/A
GPS: Latitude 32.647340 Longitude -103.910580
UL F, Sec. 19, T19S, R31E
Eddy County, NM
NMOCD Ref. No. NAPP2125149254

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production, LLC. (Devon) to perform a spill assessment, remediation, and submit this closure report for a produced water/crude oil mixed release that occurred at the Hackberry 19-1 Battery (Hackberry). The initial C-141 was submitted on September 23, 2022 (Appendix C). This incident was assigned Incident ID NAPP2125149254 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Hackberry is located approximately twelve (12) miles South of Loco Hills, NM. This spill site is in Unit F, Section 19, Township 19S, Range 31E, Latitude 32.647340 Longitude -103.910580, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up deposits of Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. May locally include uppermost Pliocene deposits. The soil in this area is made up of Kermit-Berino fine sands, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are excessively drained. There is a high potential for karst geology to be present around the Hackberry (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 nearest groundwater is 22 feet BGS. The closest waterway Salt Playa located approximately 5.99 miles to the Southwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (High Karst)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic Map.

Release Information

NAPP2125149254: On September 7, 2021, tubing from the wellhead caused fluid release, The released fluids were calculated to be approximately 10 barrels (bbls) of produced water and 10 barrels (bbls) of crude oil. A vacuum truck was able to recover approximately 18 bbls of total fluid from the impacted area.

Site Assessment and Soil Sampling Results

On July 21, 2022, Pima mobilized personnel to the site to assess the area. We sampled the impacted area. Laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

7-21-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <100')								
DEVON ENERGY - HACKBERRY 19 FED 1								
Sample Date: 7-21-22		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
NSW	6"	ND	ND	ND	ND	ND	0	ND
ESW	6"	ND	ND	ND	ND	ND	0	ND
SSW	6"	ND	ND	ND	ND	ND	0	ND
S-1	1'	ND	ND	ND	44.4	ND	44.4	**3180**
	2'	ND	ND	ND	ND	ND	0	167
	3'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	**128**	**72.5**	**200.5**	**4070**
	2'	ND	ND	ND	ND	ND	0	ND
BG-1	6"	ND	ND	ND	ND	ND	0	ND
BG-2	6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Remediation Activities

On August 22, 2022, Devon Construction Department mobilized personnel and equipment to conduct remedial activities. They excavated the area to various depths. Pima personnel collected samples to verify all contaminated soil had been removed. The contaminated soil was hauled to an approved, lined disposal facility and clean backfill material was brought in.

On August 24, 2022, after sending a 48-hour notification (Appendix C), Pima collected confirmation samples of the excavated areas. Laboratory results of this sampling event can be found in the following data table. A Confirmation Sample Map can be found in Figure 5.

8-24-22 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <100')								
DEVON ENERGY - HACKBERRY 19 FED 1								
Sample Date: 8-24-22		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
NCSW	1'	ND	ND	ND	ND	ND	0	ND
ECSW	3'	ND	ND	ND	ND	ND	0	ND
SCSW	2'	ND	ND	ND	ND	ND	0	ND
WCSW	2'	ND	ND	ND	ND	ND	0	ND
CS-1	2'	ND	ND	ND	ND	ND	0	ND
CS-2	3'	ND	ND	ND	ND	ND	0	ND
CS-3	1'	ND	ND	ND	ND	ND	0	ND
CS-4	2'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottom and sidewalls 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. See Appendix D for Photographic Documentation.

Closure Request

After careful review, Pima requests that this incident, NAPP2125149254 be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 806-782-1151 or gio@pimaoil.com.
Respectfully,

Gio Gomez

Gio Gomez
Project Manager
Pima Environmental Services, LLC

Attachments

Figures:
1- Location Map
2- Topographic Map
3- Karst Map
4- Site Map
5- Confirmation Sample Map

Appendices:
Appendix A – Referenced Water Surveys
Appendix B – Soil Survey and Geological Data
Appendix C – C-141 Form and 48-Hour Notification
Appendix D – Photographic Documentation
Appendix E – Laboratory Reports

Pima Environmental Services

Figures:

1-Location Map

2-Topo Map

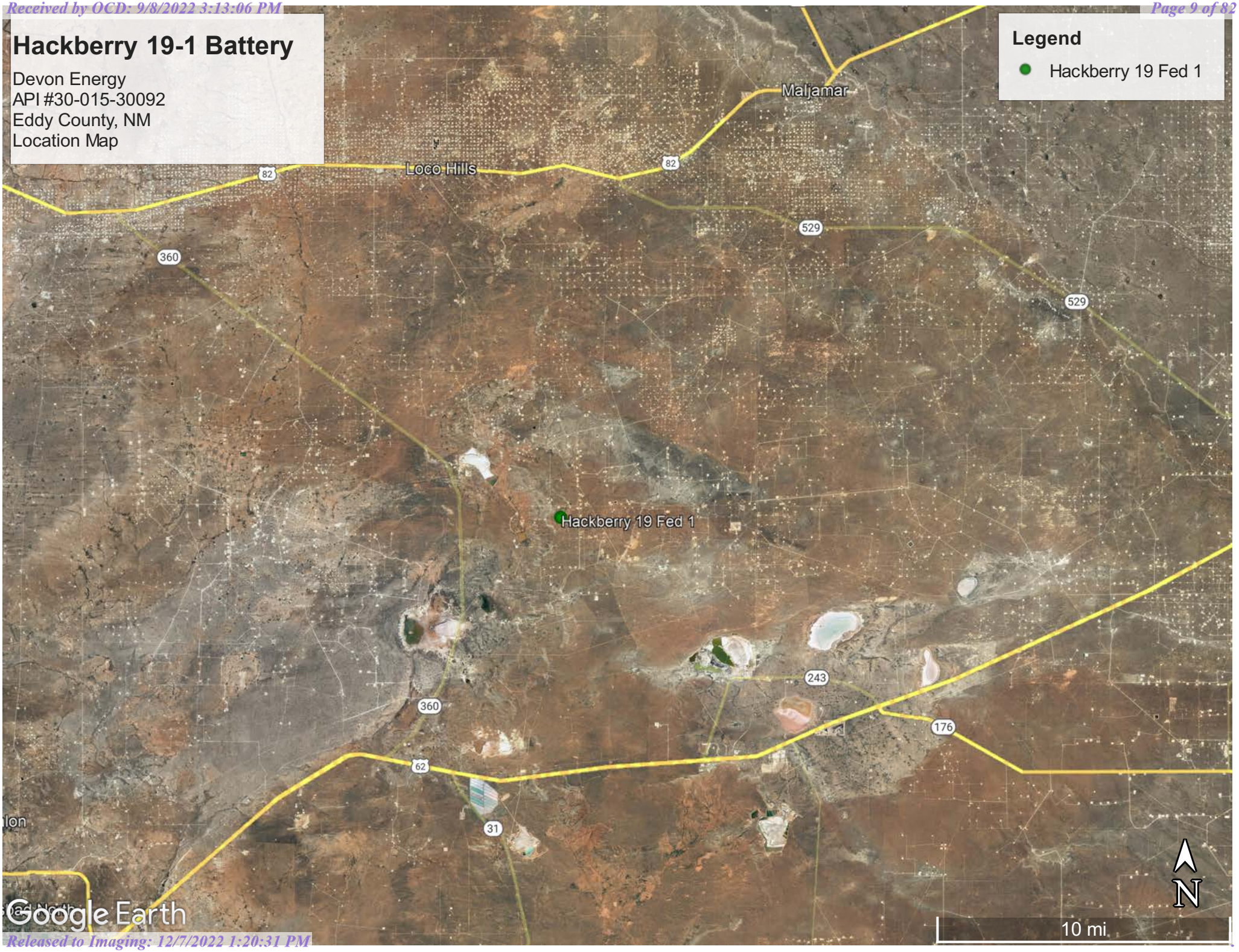
3-Karst Map

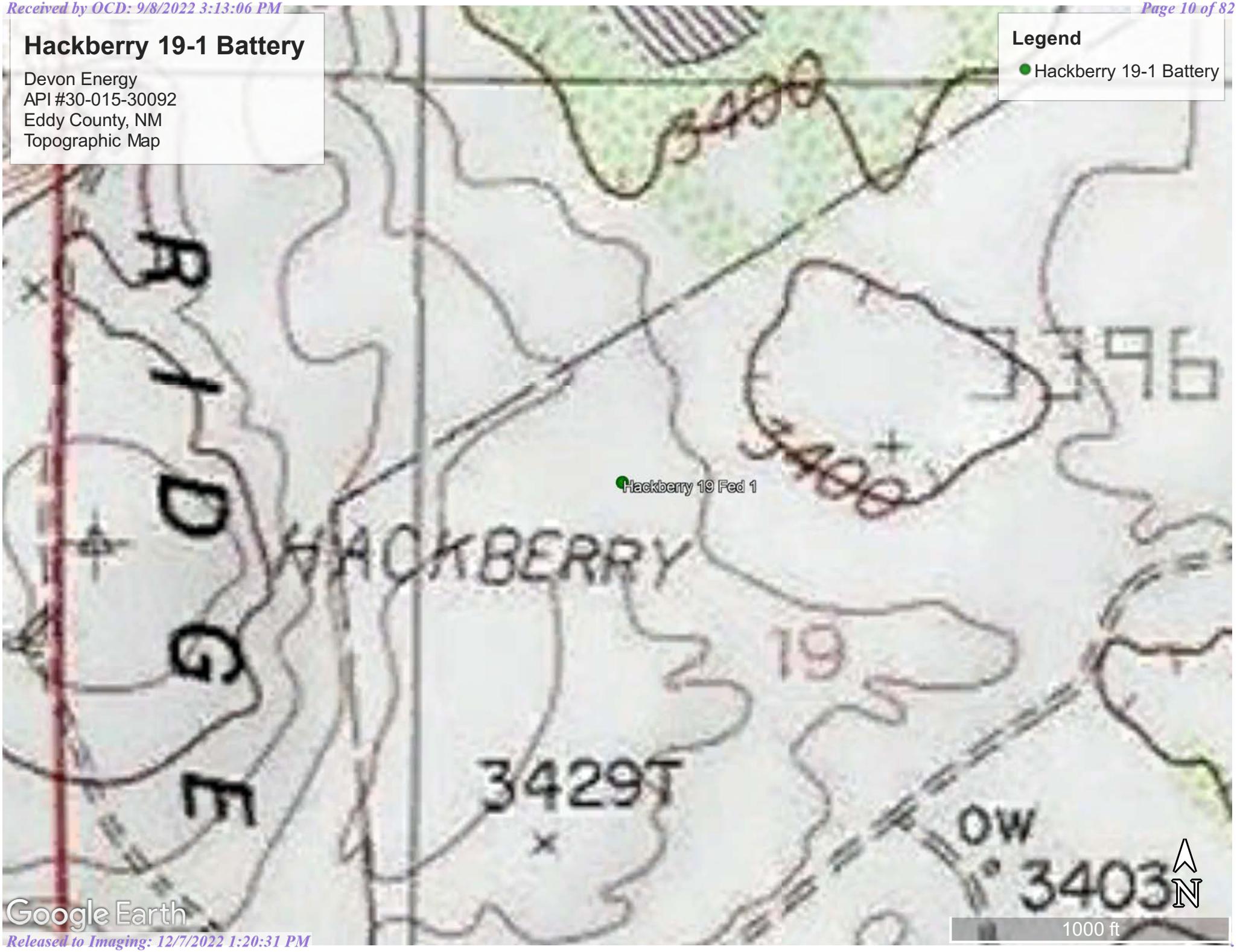
4-Site Map

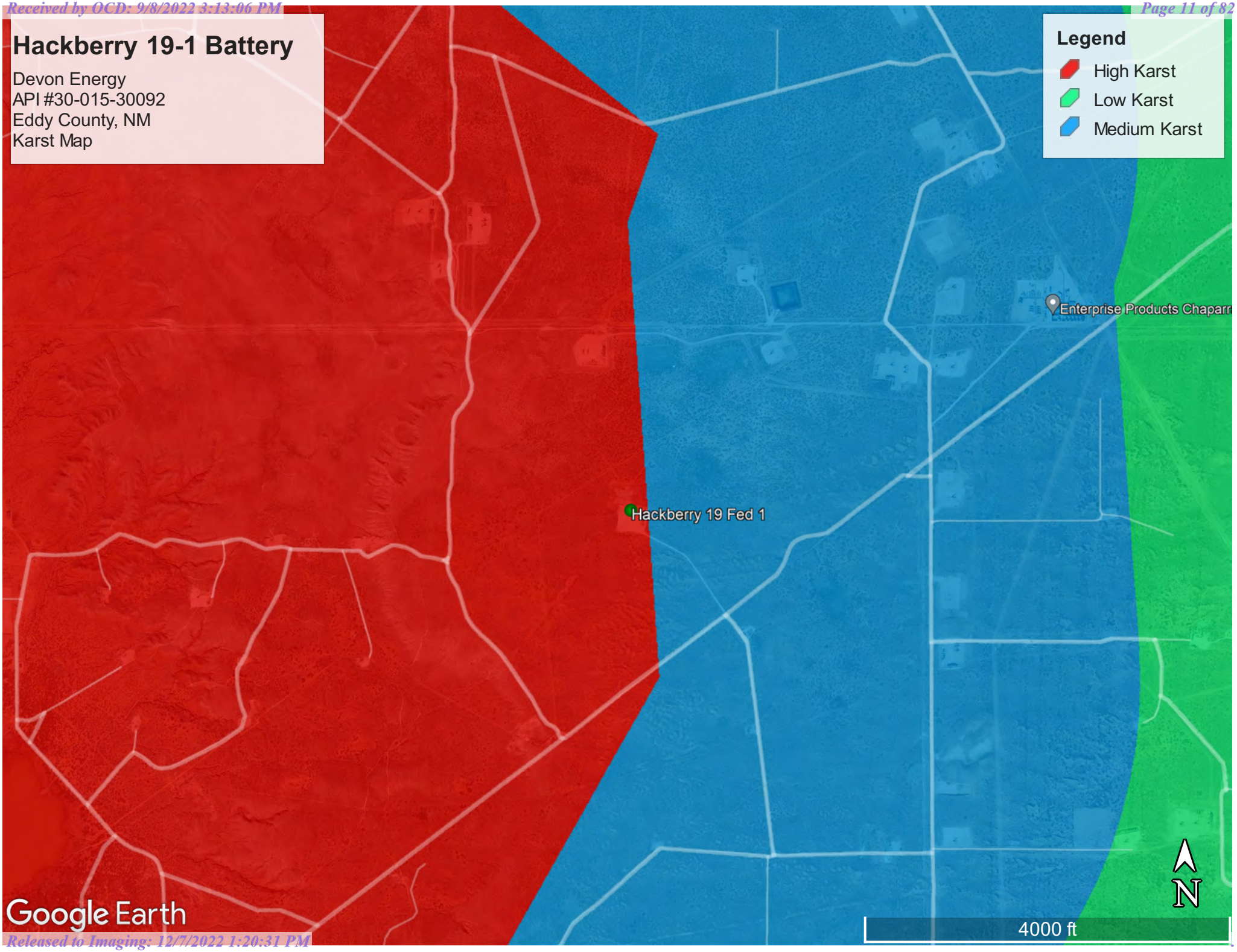
5-Confirmation Site Map

Hackberry 19-1 Battery

Devon Energy
API #30-015-30092
Eddy County, NM
Location Map




Hackberry 19-1 Battery
Devon Energy
API #30-015-30092
Eddy County, NM
Topographic Map
Legend
Hackberry 19-1 Battery
Hackberry 19 Fed 1
HACKBERRY
19
3429T
3400
3396
3403
OW
R 29 E
Google Earth
1000 ft
N


Hackberry 19-1 Battery
Devon Energy
API #30-015-30092
Eddy County, NM
Karst Map
Legend
High Karst
Low Karst
Medium Karst
Enterprise Products Chaparr
Hackberry 19 Fed 1
N
4000 ft
Google Earth


Hackberry 19-1 Battery
Devon Energy
API #30-015-30092
Eddy County, NM
Site Map
Legend
Backgrounds
Samples
Sidewalls
Spill Area-600sqft
BG1
BG2
NSW
S2
S1
ESW
SSW
Hackberry 19 Fed 1
32.647607, -103.910657
N
60 ft
Google Earth

Hackberry 19-1 Battery

Devon Energy
API# N/A
Eddy County, NM
Confirmation Sample Map

Legend

- Confirmation Bottoms
- Confirmation Sidewalls
- Hackberry 19 fed 1 Battery
- Spill Area 600sqft

Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map

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

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00873 POD1		CP	LE		1	1	19	19S	31E	601772	3613147*	590	340	180	160
CP 00357 POD1		CP	ED	4	4	1	24	19S	30E	600667	3612631*	1510	630		
CP 00357 POD2		CP	ED	4	3	1	24	19S	30E	600265	3612627*	1912	630		
CP 00722 POD2		CP	ED	2	1	1	25	19S	30E	600276	3611620*	2192	350	65	285
CP 00725 POD1		CP	ED	1	3	3	28	19S	31E	604906	3610473*	3533	231		
CP 00722 POD1		CP	LE	4	3	3	28	19S	31E	605106	3610273*	3814	200		
CP 00722 POD1	R	CP	LE	4	3	3	28	19S	31E	605106	3610273*	3814	200		
CP 00723 POD1		CP	ED	2	1	1	33	19S	31E	605111	3610071*	3951	139		
CP 00822 POD1		CP	LE		4	4	15	19S	30E	598148	3613516*	4106	90		
CP 00829 POD1		CP	LE		2	4	16	19S	31E	606165	3614009*	4193	120		
CP 00647 POD1	O	CP	ED	4	2	2	15	19S	30E	598235	3614621*	4376	200	92	108
CP 00722 POD3		CP	LE	2	4	1	33	19S	31E	605519	3609673*	4520	220	140	80
CP 00828 POD1		CP	LE		1	1	35	19S	30E	598585	3609900*	4562	90		

Average Depth to Water: **119 feet**
Minimum Depth: **65 feet**
Maximum Depth: **180 feet**

Record Count: 13

UTMNAD83 Radius Search (in meters):

Easting (X): 602175.48 **Northing (Y):** 3612715.59 **Radius:** 5000

***UTM location was derived from PLSS - see Help**

7/11/22 3:15 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

National Water Information System: Web Interface

USGS Water Resources

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

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

- 323810103554201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

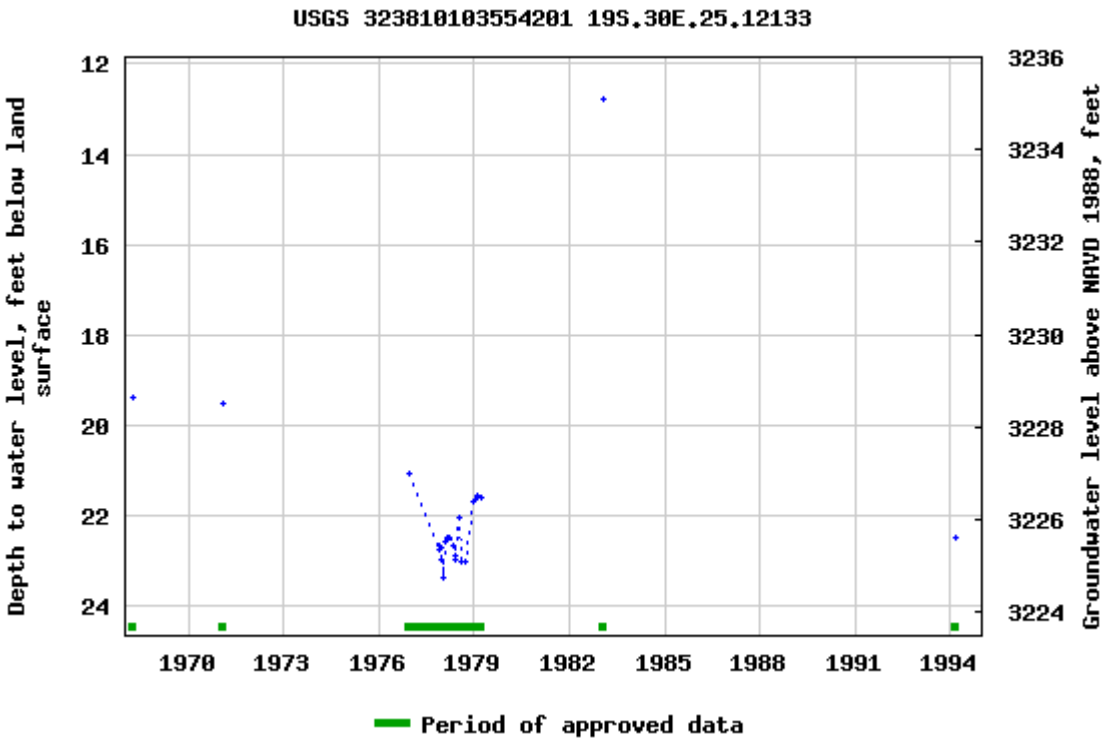
USGS 323810103554201 19S.30E.25.12133

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°38'10", Longitude 103°55'42" NAD27
Land-surface elevation 3,248 feet above NAVD88
The depth of the well is 42 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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
Explanation of terms
Subscribe for system changes
News

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-07-11 17:17:15 EDT
0.72 0.65 nadww01

National Water Information System: Web Interface

USGS Water Resources

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

Click to hideNews Bulletins

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

- 323734103523901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

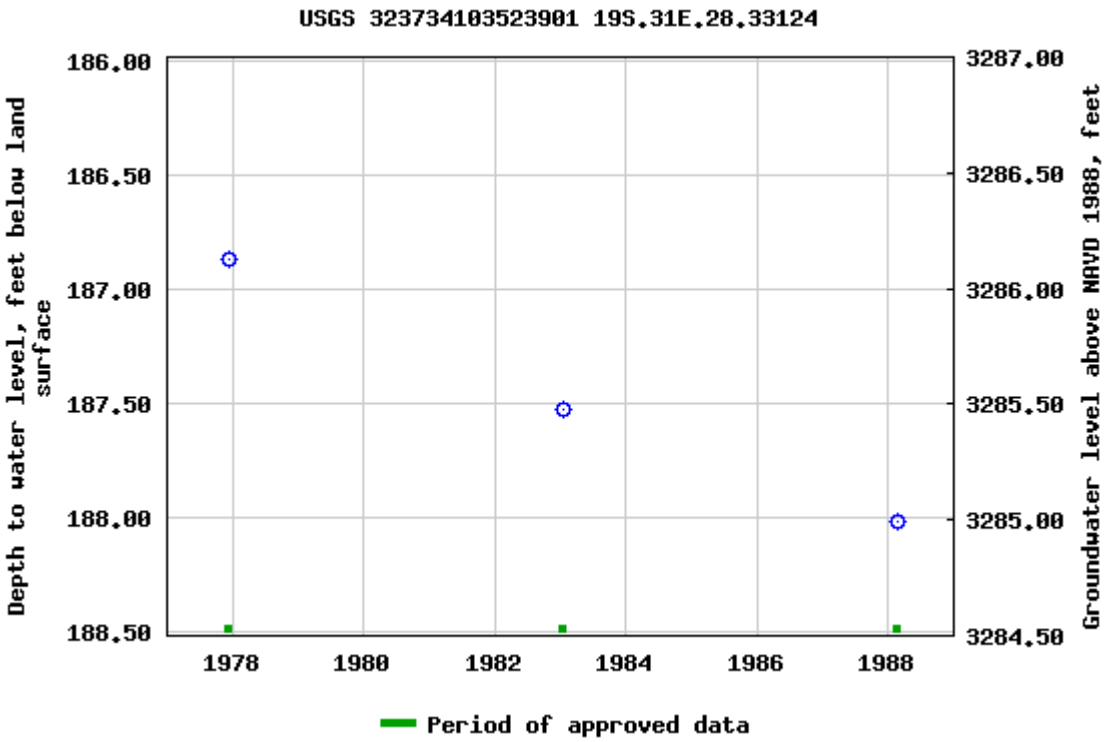
USGS 323734103523901 19S.31E.28.33124

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°37'34", Longitude 103°52'39" NAD27
Land-surface elevation 3,473 feet above NAVD88
The depth of the well is 230 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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.
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News

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-07-11 17:17:58 EDT
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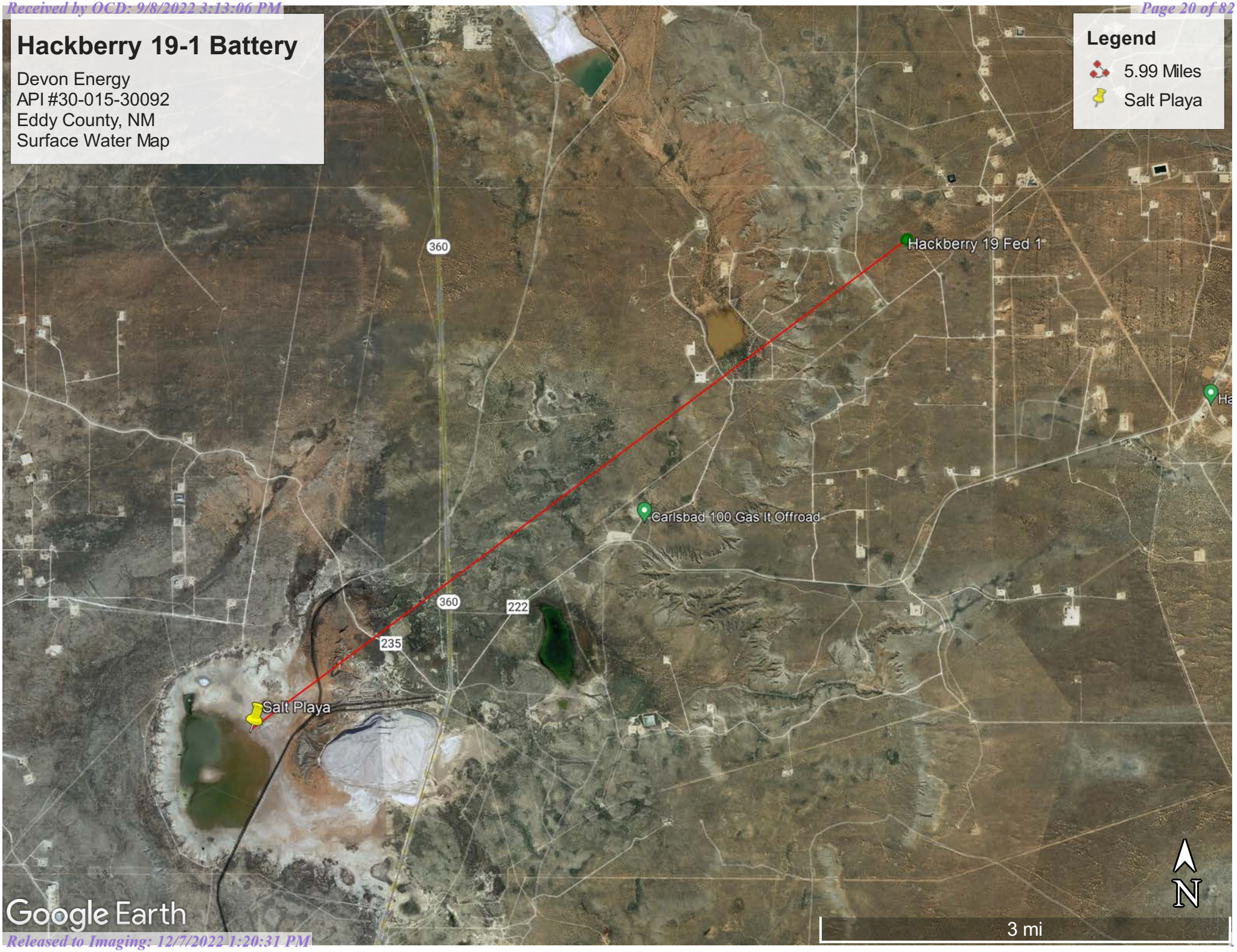
Hackberry 19-1 Battery

Devon Energy
API #30-015-30092
Eddy County, NM
Surface Water Map



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Eddy Area, New Mexico

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

Map Unit Setting

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

Map Unit Composition

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

Description of Kermit

Setting

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

Typical profile

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

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

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

Description of Berino

Setting

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

Typical profile

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

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
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 supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

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

Minor Components

Active dune land

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

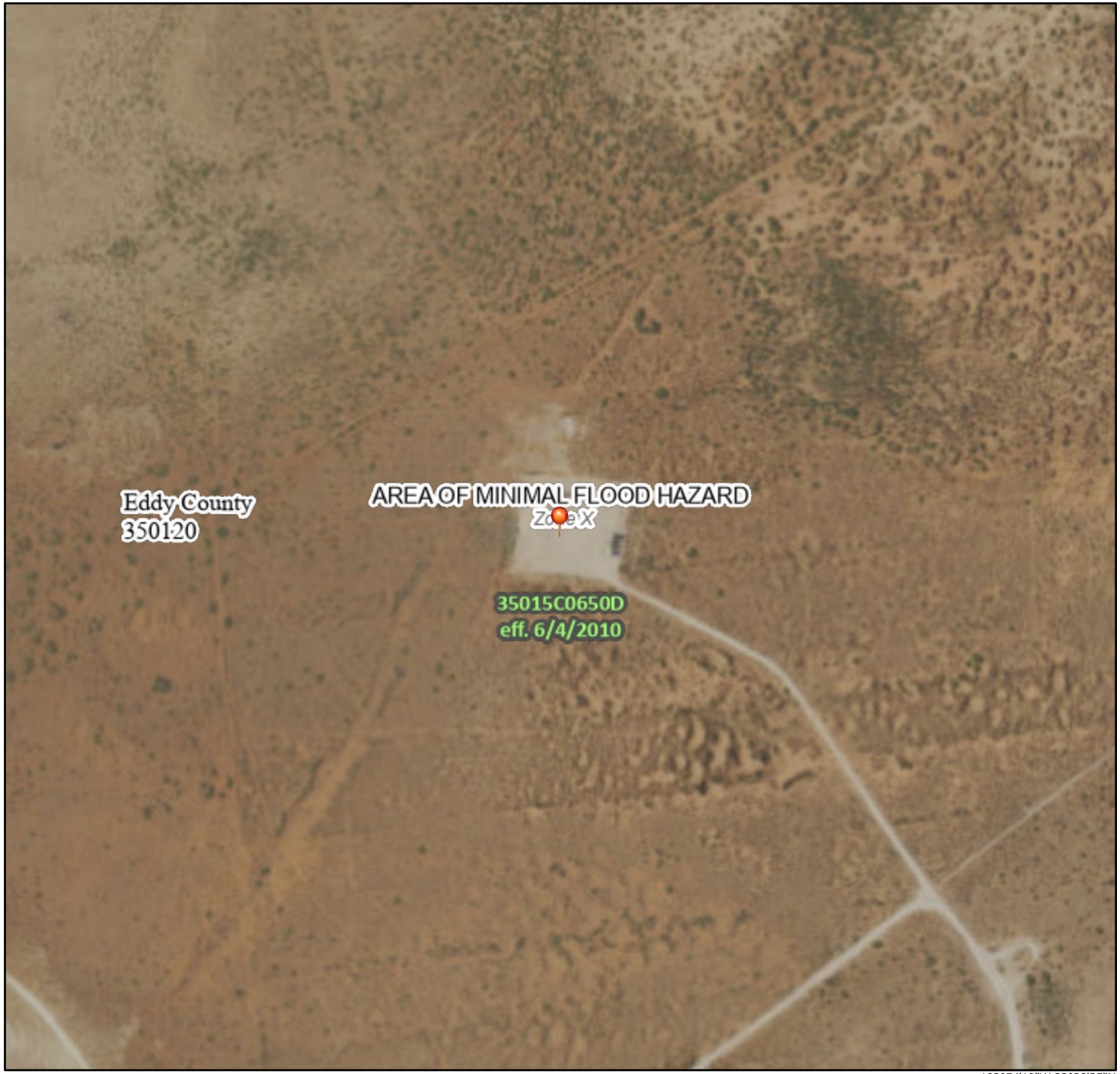
Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 17, Sep 12, 2021

National Flood Hazard Layer FIRMette

FEMA

103°54'57"W 32°39'6"N



103°54'19"W 32°38'35"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

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

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
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 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

N

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 8/30/2022 at 9:34 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 Form

48-Hour Notification

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
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)

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

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ 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

- ☐ The source of the release has been stopped.
- ☐ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: _____

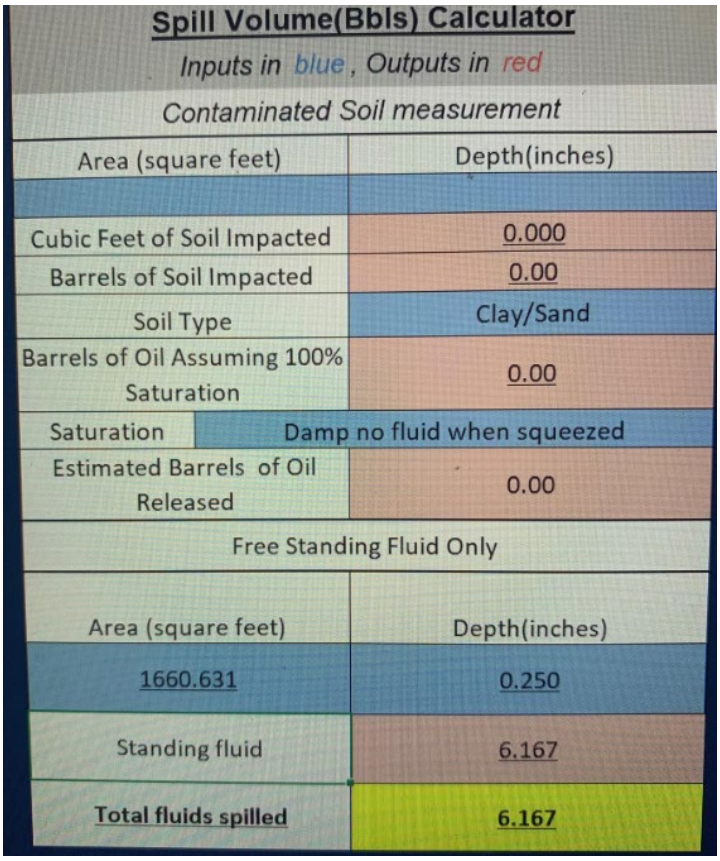
Signature: Kendra DeHoyos Date: _____

email: _____ Telephone: _____

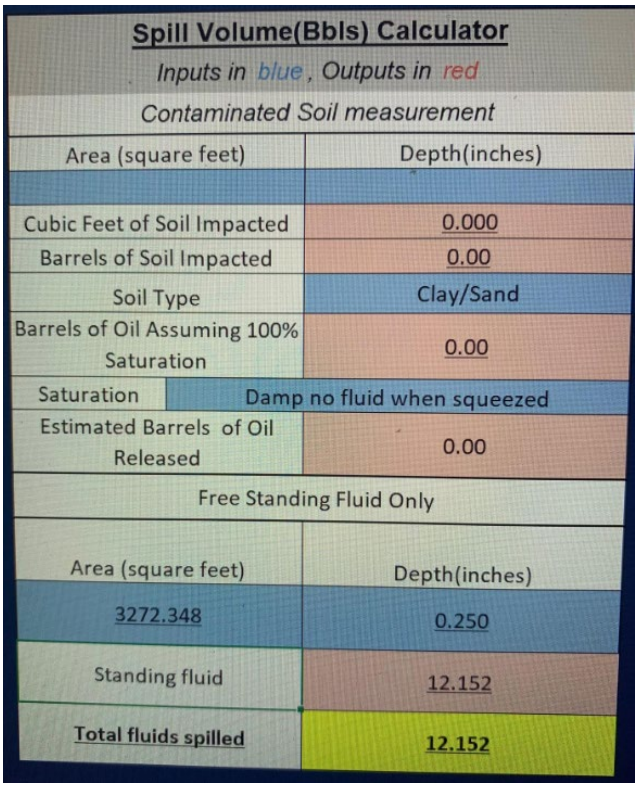
OCD Only

Received by: Ramona Marcus Date: 9/27/2021

NAPP2125149254



Spill Volume(Bbls) Calculator	
Inputs in blue, Outputs in red	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
Cubic Feet of Soil Impacted	0.000
Barrels of Soil Impacted	0.00
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	0.00
Saturation	Damp no fluid when squeezed
Estimated Barrels of Oil Released	0.00
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
1660.631	0.250
Standing fluid	6.167
Total fluids spilled	**6.167**



Spill Volume(Bbls) Calculator	
Inputs in blue, Outputs in red	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
Cubic Feet of Soil Impacted	0.000
Barrels of Soil Impacted	0.00
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	0.00
Saturation	Damp no fluid when squeezed
Estimated Barrels of Oil Released	0.00
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
3272.348	0.250
Standing fluid	12.152
Total fluids spilled	**12.152**

Spill Volume(Bbls) Calculator

Inputs in blue, Outputs in red

Contaminated Soil measurement

Area (square feet)	Depth(inches)
330.861	0.250
Cubic Feet of Soil Impacted	6.893
Barrels of Soil Impacted	1.23
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	0.18
Saturation	Damp no fluid when squeezed
Estimated Barrels of Oil Released	0.02
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
624.629	0.250
Standing fluid	2.320
Total fluids spilled	**2.504**

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

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 51738
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	9/27/2021

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2125149254
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	340 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2125149254
District RP	
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: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 9/8/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2125149254
District RP	
Facility ID	
Application ID	

Closure

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

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

[x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[x] 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)

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

[x] 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: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 9/8/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

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: _____

From: Tom Bynum
To: "OCDOnline@state.nm.us"; "ocdonline, emnrd, EMNRD"
Cc: "Gio PimaOil"; "sebastian@pimaoil.com"
Subject: 48-Hour Notification - NAPP2125149254
Date: Monday, August 22, 2022 4:11:00 PM

Good Afternoon,
Pima Environmental would like to notify you that we will be collecting confirmation samples at the Hackberry 19 Fed 1 for incident ID NAPP2125149254. Pima personnel are scheduled to be on site for this sampling event at approximately 4:30 p.m. on Wednesday, August 24, 2022. If you have any questions or concerns, please let me know. Thank you.

THANK YOU,

Tom Bynum
Project Manager
Cell – 580-748-1613
Office – 575-964-7740

Pima Environmental Services, LLC.

Pima Environmental Services

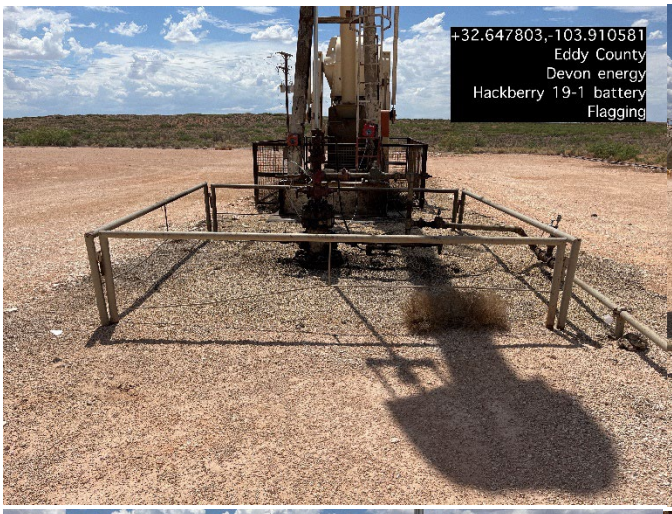
Appendix D

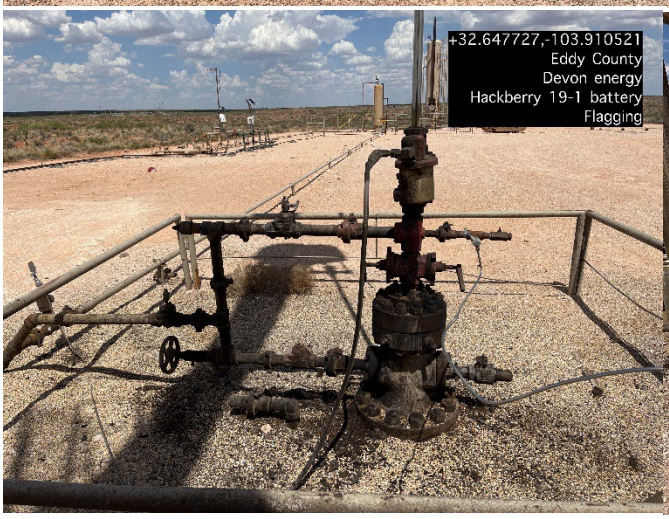
Photographic Documentation

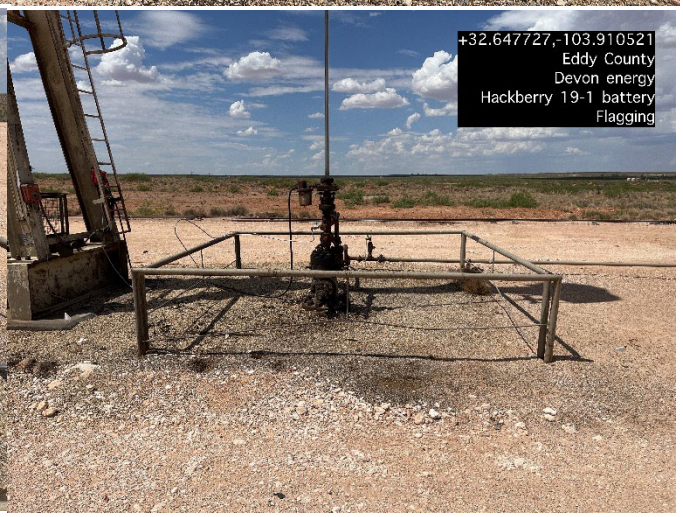
SITE PHOTOGRAPHS
DEVON ENERGY

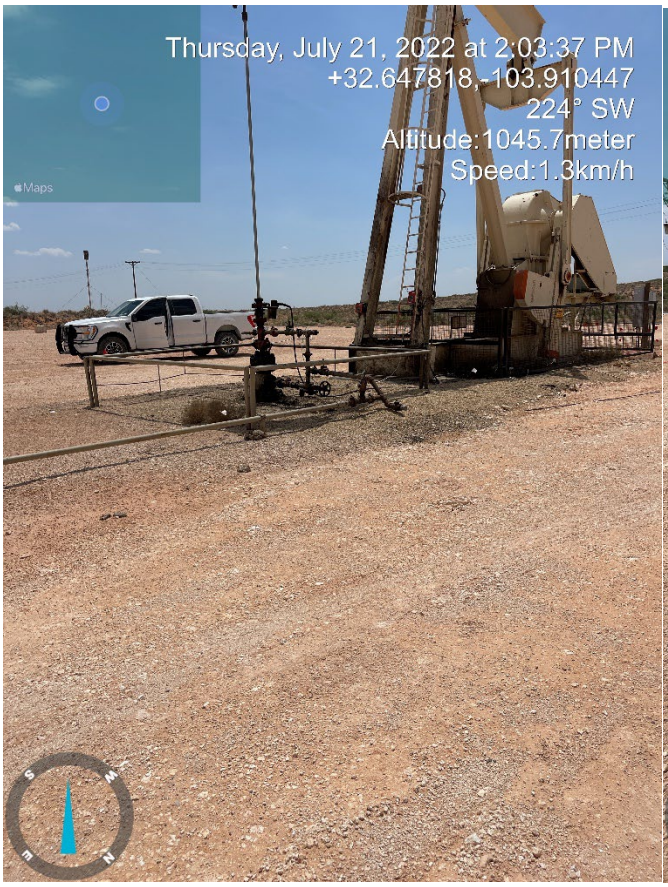
HACKBERRY 19 FED 1

Assessment





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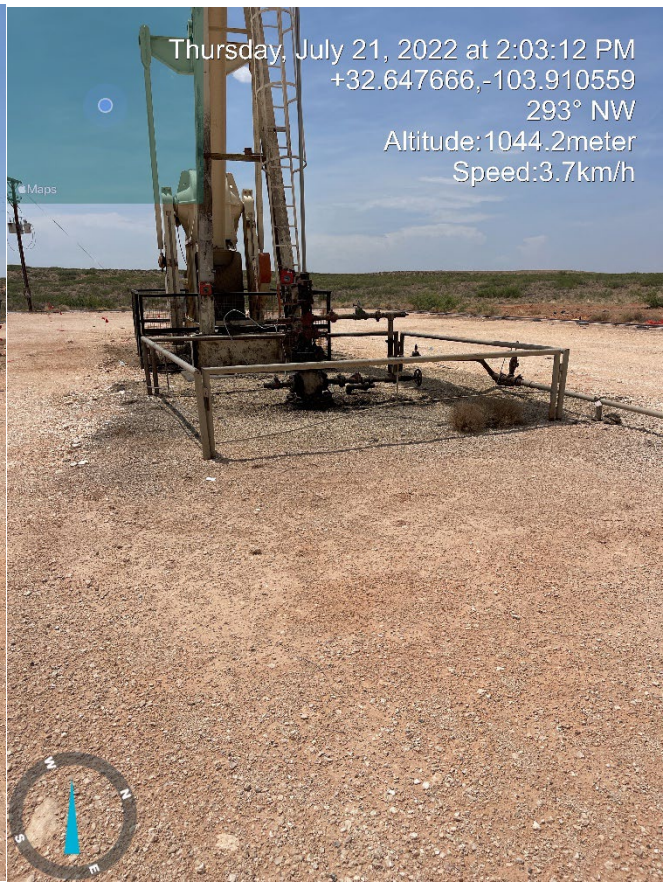
224° SW
Altitude:1045.7meter
Speed:1.3km/h
Maps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+32.647666,-103.910559
293° NW
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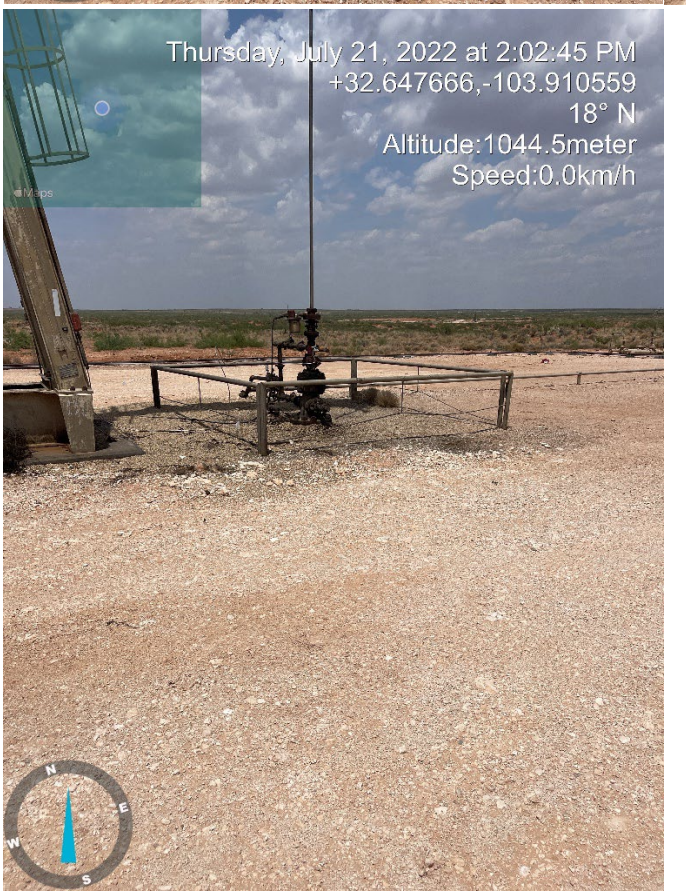
Speed:3.7km/h
Maps


Thursday, July 21, 2022 at 2:02:45 PM
+32.647666,-103.910559
18° N
Altitude:1044.5meter
Speed:0.0km/h
Maps

Remediation

Post Remediation


+32.647670,-103.910472
Eddy County
Devon Energy
Hackberry 19 Fed 1 Battery
Post Remediation


+32.647745,-103.910555
Eddy County
Devon Energy
Hackberry 19 Fed 1 Battery
Post Remediation

Pima Environmental Services

Appendix E

Laboratory Reports

Report to:

Tom Bynum

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name:	Hackberry 19-1
Work Order:	E207167
Job Number:	01058-0007
Received:	7/25/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/29/22

Date Reported: 7/29/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Hackberry 19-1
Workorder: E207167
Date Received: 7/25/2022 8:23:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/25/2022 8:23:00AM, under the Project Name: Hackberry 19-1.

The analytical test results summarized in this report with the Project Name: Hackberry 19-1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	07/29/22 14:46

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NSW	E207167-01A	Soil	07/21/22	07/25/22	Glass Jar, 4 oz.
ESW	E207167-02A	Soil	07/21/22	07/25/22	Glass Jar, 4 oz.
SSW	E207167-03A	Soil	07/21/22	07/25/22	Glass Jar, 4 oz.
S.1 1'	E207167-04A	Soil	07/21/22	07/25/22	Glass Jar, 4 oz.
S.1 2'	E207167-05A	Soil	07/21/22	07/25/22	Glass Jar, 4 oz.
S.1 3'	E207167-06A	Soil	07/21/22	07/25/22	Glass Jar, 4 oz.
S.2 1'	E207167-07A	Soil	07/21/22	07/25/22	Glass Jar, 4 oz.
S.2 2'	E207167-08A	Soil	07/21/22	07/25/22	Glass Jar, 4 oz.
BG1	E207167-09A	Soil	07/21/22	07/25/22	Glass Jar, 4 oz.
BG2	E207167-10A	Soil	07/21/22	07/25/22	Glass Jar, 4 oz.

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

NSW

E207167-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Benzene	ND	0.0250	1	07/25/22	07/28/22	
Ethylbenzene	ND	0.0250	1	07/25/22	07/28/22	
Toluene	ND	0.0250	1	07/25/22	07/28/22	
o-Xylene	ND	0.0250	1	07/25/22	07/28/22	
p,m-Xylene	ND	0.0500	1	07/25/22	07/28/22	
Total Xylenes	ND	0.0250	1	07/25/22	07/28/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.1 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/22	07/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.6 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231051
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/22	07/28/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*07/27/22*	*07/28/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231071
Chloride	ND	20.0	1	07/28/22	07/28/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

ESW

E207167-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Benzene	ND	0.0250	1	07/25/22	07/28/22	
Ethylbenzene	ND	0.0250	1	07/25/22	07/28/22	
Toluene	ND	0.0250	1	07/25/22	07/28/22	
o-Xylene	ND	0.0250	1	07/25/22	07/28/22	
p,m-Xylene	ND	0.0500	1	07/25/22	07/28/22	
Total Xylenes	ND	0.0250	1	07/25/22	07/28/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.1 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/22	07/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231051
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/22	07/28/22	
Surrogate: n-Nonane		*111 %*	*50-200*	*07/27/22*	*07/28/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231071
Chloride	ND	20.0	1	07/28/22	07/28/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

SSW

E207167-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Benzene	ND	0.0250	1	07/25/22	07/28/22	
Ethylbenzene	ND	0.0250	1	07/25/22	07/28/22	
Toluene	ND	0.0250	1	07/25/22	07/28/22	
o-Xylene	ND	0.0250	1	07/25/22	07/28/22	
p,m-Xylene	ND	0.0500	1	07/25/22	07/28/22	
Total Xylenes	ND	0.0250	1	07/25/22	07/28/22	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/22	07/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231051
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/22	07/28/22	
Surrogate: n-Nonane		*116 %*	*50-200*	*07/27/22*	*07/28/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231071
Chloride	ND	20.0	1	07/28/22	07/28/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

S.1 1'

E207167-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Benzene	ND	0.0250	1	07/25/22	07/28/22	
Ethylbenzene	ND	0.0250	1	07/25/22	07/28/22	
Toluene	ND	0.0250	1	07/25/22	07/28/22	
o-Xylene	ND	0.0250	1	07/25/22	07/28/22	
p,m-Xylene	ND	0.0500	1	07/25/22	07/28/22	
Total Xylenes	ND	0.0250	1	07/25/22	07/28/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.4 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/22	07/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.2 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231051
Diesel Range Organics (C10-C28)	**44.4**	25.0	1	07/27/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/22	07/28/22	
Surrogate: n-Nonane		*107 %*	*50-200*	*07/27/22*	*07/28/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231071
Chloride	**3180**	40.0	2	07/28/22	07/28/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

S.1 2'

E207167-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Benzene	ND	0.0250	1	07/25/22	07/28/22	
Ethylbenzene	ND	0.0250	1	07/25/22	07/28/22	
Toluene	ND	0.0250	1	07/25/22	07/28/22	
o-Xylene	ND	0.0250	1	07/25/22	07/28/22	
p,m-Xylene	ND	0.0500	1	07/25/22	07/28/22	
Total Xylenes	ND	0.0250	1	07/25/22	07/28/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.2 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/22	07/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.3 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231051
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/22	07/28/22	
Surrogate: n-Nonane		*111 %*	*50-200*	*07/27/22*	*07/28/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231071
Chloride	**167**	20.0	1	07/28/22	07/29/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

S.1 3'

E207167-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Benzene	ND	0.0250	1	07/25/22	07/28/22	
Ethylbenzene	ND	0.0250	1	07/25/22	07/28/22	
Toluene	ND	0.0250	1	07/25/22	07/28/22	
o-Xylene	ND	0.0250	1	07/25/22	07/28/22	
p,m-Xylene	ND	0.0500	1	07/25/22	07/28/22	
Total Xylenes	ND	0.0250	1	07/25/22	07/28/22	
Surrogate: 4-Bromochlorobenzene-PID		*96.8 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/22	07/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.0 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231051
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/22	07/28/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*07/27/22*	*07/28/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231071
Chloride	ND	20.0	1	07/28/22	07/29/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

S.2 1'

E207167-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Benzene	ND	0.0250	1	07/25/22	07/28/22	
Ethylbenzene	ND	0.0250	1	07/25/22	07/28/22	
Toluene	ND	0.0250	1	07/25/22	07/28/22	
o-Xylene	ND	0.0250	1	07/25/22	07/28/22	
p,m-Xylene	ND	0.0500	1	07/25/22	07/28/22	
Total Xylenes	ND	0.0250	1	07/25/22	07/28/22	
Surrogate: 4-Bromochlorobenzene-PID		*99.9 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/22	07/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.4 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231051
Diesel Range Organics (C10-C28)	**128**	25.0	1	07/27/22	07/28/22	
Oil Range Organics (C28-C36)	**72.5**	50.0	1	07/27/22	07/28/22	
Surrogate: n-Nonane		*113 %*	*50-200*	*07/27/22*	*07/28/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231071
Chloride	**4070**	40.0	2	07/28/22	07/29/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

S.2 2'

E207167-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Benzene	ND	0.0250	1	07/25/22	07/28/22	
Ethylbenzene	ND	0.0250	1	07/25/22	07/28/22	
Toluene	ND	0.0250	1	07/25/22	07/28/22	
o-Xylene	ND	0.0250	1	07/25/22	07/28/22	
p,m-Xylene	ND	0.0500	1	07/25/22	07/28/22	
Total Xylenes	ND	0.0250	1	07/25/22	07/28/22	
Surrogate: 4-Bromochlorobenzene-PID		*98.1 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/22	07/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.0 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231051
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/22	07/28/22	
Surrogate: n-Nonane		*117 %*	*50-200*	*07/27/22*	*07/28/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231071
Chloride	ND	20.0	1	07/28/22	07/29/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

BG1

E207167-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Benzene	ND	0.0250	1	07/25/22	07/28/22	
Ethylbenzene	ND	0.0250	1	07/25/22	07/28/22	
Toluene	ND	0.0250	1	07/25/22	07/28/22	
o-Xylene	ND	0.0250	1	07/25/22	07/28/22	
p,m-Xylene	ND	0.0500	1	07/25/22	07/28/22	
Total Xylenes	ND	0.0250	1	07/25/22	07/28/22	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/22	07/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.8 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231051
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/22	07/28/22	
Surrogate: n-Nonane		*114 %*	*50-200*	*07/27/22*	*07/28/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231071
Chloride	ND	20.0	1	07/28/22	07/29/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

BG2

E207167-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Benzene	ND	0.0250	1	07/25/22	07/28/22	
Ethylbenzene	ND	0.0250	1	07/25/22	07/28/22	
Toluene	ND	0.0250	1	07/25/22	07/28/22	
o-Xylene	ND	0.0250	1	07/25/22	07/28/22	
p,m-Xylene	ND	0.0500	1	07/25/22	07/28/22	
Total Xylenes	ND	0.0250	1	07/25/22	07/28/22	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2231011
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/22	07/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.6 %*	*70-130*	*07/25/22*	*07/28/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231051
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/22	07/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/22	07/28/22	
Surrogate: n-Nonane		*109 %*	*50-200*	*07/27/22*	*07/28/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231071
Chloride	ND	20.0	1	07/28/22	07/29/22	

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2231011-BLK1)									Prepared: 07/25/22 Analyzed: 07/28/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.77*		*8.00*		*97.1*	*70-130*			
LCS (2231011-BS1)									Prepared: 07/25/22 Analyzed: 07/28/22
Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.12	0.0250	5.00		82.4	70-130			
Toluene	4.46	0.0250	5.00		89.2	70-130			
o-Xylene	4.42	0.0250	5.00		88.3	70-130			
p,m-Xylene	8.52	0.0500	10.0		85.2	70-130			
Total Xylenes	12.9	0.0250	15.0		86.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.91*		*8.00*		*98.9*	*70-130*			
LCS Dup (2231011-BSD1)									Prepared: 07/25/22 Analyzed: 07/28/22
Benzene	4.89	0.0250	5.00		97.9	70-130	3.15	20	
Ethylbenzene	4.26	0.0250	5.00		85.2	70-130	3.39	20	
Toluene	4.61	0.0250	5.00		92.2	70-130	3.32	20	
o-Xylene	4.56	0.0250	5.00		91.2	70-130	3.23	20	
p,m-Xylene	8.82	0.0500	10.0		88.2	70-130	3.36	20	
Total Xylenes	13.4	0.0250	15.0		89.2	70-130	3.31	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.97*		*8.00*		*99.6*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2231011-BLK1)									Prepared: 07/25/22 Analyzed: 07/28/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.51*		*8.00*		*93.8*	*70-130*			
LCS (2231011-BS2)									Prepared: 07/25/22 Analyzed: 07/28/22
Gasoline Range Organics (C6-C10)	42.0	20.0	50.0		83.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*8.00*		*94.1*	*70-130*			
LCS Dup (2231011-BSD2)									Prepared: 07/25/22 Analyzed: 07/28/22
Gasoline Range Organics (C6-C10)	41.5	20.0	50.0		82.9	70-130	1.22	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.48*		*8.00*		*93.5*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2231051-BLK1)									Prepared: 07/27/22 Analyzed: 07/28/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*46.2*		*50.0*		*92.4*	*50-200*			
LCS (2231051-BS1)									Prepared: 07/27/22 Analyzed: 07/28/22
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	*53.2*		*50.0*		*106*	*50-200*			
Matrix Spike (2231051-MS1)				**Source: E207167-08**					Prepared: 07/27/22 Analyzed: 07/28/22
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	*56.9*		*50.0*		*114*	*50-200*			
Matrix Spike Dup (2231051-MSD1)				**Source: E207167-08**					Prepared: 07/27/22 Analyzed: 07/28/22
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.4	38-132	7.80	20	
Surrogate: n-Nonane	*51.5*		*50.0*		*103*	*50-200*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	7/29/2022 2:46:34PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2231071-BLK1)									Prepared: 07/28/22 Analyzed: 07/28/22
Chloride	ND	20.0							
LCS (2231071-BS1)									Prepared: 07/28/22 Analyzed: 07/28/22
Chloride	246	20.0	250		98.3	90-110			
Matrix Spike (2231071-MS1)				**Source: E207167-01**					Prepared: 07/28/22 Analyzed: 07/28/22
Chloride	247	20.0	250	ND	98.7	80-120			
Matrix Spike Dup (2231071-MSD1)				**Source: E207167-01**					Prepared: 07/28/22 Analyzed: 07/28/22
Chloride	247	20.0	250	ND	98.9	80-120	0.137	20	

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

Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 19-1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	07/29/22 14:46

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

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

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

Project Information | Chain of Custody | Page 1 of 1

Client: Pima Environmental Services	Bill To
Project: HackBerry 19-1	Attention: Devon Energy
Project Manager: Tom Bynum	Address:
Address: 5614 N. Lovington Hwy.	City, State, Zip
City, State, Zip Hobbs, NM, 88240	Phone:
Phone: 580-748-1613	Email:
Email: tom@pimaoil.com	Pima Project # 143
Report due by:	

Lab Use Only: Lab WO# E207167 | Job Number 01058-0007

TAT: 1D | 2D | 3D | Standard X

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
11:00	7/21/22	S		NSW	1	X	
11:05				ESW	2		
11:10				SSW	3		
11:15				S.1 1'	4		
11:20				S.1 2'	5		
11:25				S.1 3'	6		
11:30				S.2 1'	7		
11:35				S.2 2'	8		
11:40				BG1	9		
11:45				BG2	10		

Additional Instructions: Billing # 20971967

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Andreiana B

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Alexandra Sanderson	7/22/22	3:30		7-00	315
	7-22	2:14	Caitlin Christian	7/25/22	8:23

Lab Use Only: Received on ice: (Y) N

T1 ____ T2 ____ T3 ____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 7/28/2022 3:28:32PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	07/25/22 08:23	Work Order ID:	E207167
Phone:	(575) 631-6977	Date Logged In:	07/25/22 09:53	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	07/29/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: UPS
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Tom Bynum

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name:	Hack Berry 19 Fed 1 Batt.
Work Order:	E208147
Job Number:	01058-0007
Received:	8/26/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/29/22

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

Date Reported: 8/29/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Hack Berry 19 Fed 1 Batt.
Workorder: E208147
Date Received: 8/26/2022 10:32:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/26/2022 10:32:00AM, under the Project Name: Hack Berry 19 Fed 1 Batt..

The analytical test results summarized in this report with the Project Name: Hack Berry 19 Fed 1 Batt. apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

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Southern New Mexico Area
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Cell: 505-320-4759
ljarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/29/22 16:14

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CSW-1	E208147-01A	Soil	08/24/22	08/26/22	Glass Jar, 4 oz.
CSW-2	E208147-02A	Soil	08/24/22	08/26/22	Glass Jar, 4 oz.
CSW-3	E208147-03A	Soil	08/24/22	08/26/22	Glass Jar, 4 oz.
CSW-4	E208147-04A	Soil	08/24/22	08/26/22	Glass Jar, 4 oz.
CS-1	E208147-05A	Soil	08/24/22	08/26/22	Glass Jar, 4 oz.
CS-2	E208147-06A	Soil	08/24/22	08/26/22	Glass Jar, 4 oz.
CS-3	E208147-07A	Soil	08/24/22	08/26/22	Glass Jar, 4 oz.
CS-4	E208147-08A	Soil	08/24/22	08/26/22	Glass Jar, 4 oz.

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/29/2022 4:14:48PM

CSW-1

E208147-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Benzene	ND	0.0250	1	08/26/22	08/26/22	
Ethylbenzene	ND	0.0250	1	08/26/22	08/26/22	
Toluene	ND	0.0250	1	08/26/22	08/26/22	
o-Xylene	ND	0.0250	1	08/26/22	08/26/22	
p,m-Xylene	ND	0.0500	1	08/26/22	08/26/22	
Total Xylenes	ND	0.0250	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*94.1 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*94.1 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2235057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane		*94.4 %*	*50-200*	*08/25/22*	*08/26/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2235062
Chloride	ND	20.0	1	08/26/22	08/26/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/29/2022 4:14:48PM

CSW-2

E208147-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Benzene	ND	0.0250	1	08/26/22	08/26/22	
Ethylbenzene	ND	0.0250	1	08/26/22	08/26/22	
Toluene	ND	0.0250	1	08/26/22	08/26/22	
o-Xylene	ND	0.0250	1	08/26/22	08/26/22	
p,m-Xylene	ND	0.0500	1	08/26/22	08/26/22	
Total Xylenes	ND	0.0250	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*94.5 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*94.5 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2235057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane		*90.7 %*	*50-200*	*08/25/22*	*08/26/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2235062
Chloride	ND	20.0	1	08/26/22	08/26/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/29/2022 4:14:48PM

CSW-3

E208147-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Benzene	ND	0.0250	1	08/26/22	08/26/22	
Ethylbenzene	ND	0.0250	1	08/26/22	08/26/22	
Toluene	ND	0.0250	1	08/26/22	08/26/22	
o-Xylene	ND	0.0250	1	08/26/22	08/26/22	
p,m-Xylene	ND	0.0500	1	08/26/22	08/26/22	
Total Xylenes	ND	0.0250	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*94.1 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*94.1 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2235057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane		*92.9 %*	*50-200*	*08/25/22*	*08/26/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2235062
Chloride	ND	20.0	1	08/26/22	08/26/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/29/2022 4:14:48PM

CSW-4

E208147-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Benzene	ND	0.0250	1	08/26/22	08/26/22	
Ethylbenzene	ND	0.0250	1	08/26/22	08/26/22	
Toluene	ND	0.0250	1	08/26/22	08/26/22	
o-Xylene	ND	0.0250	1	08/26/22	08/26/22	
p,m-Xylene	ND	0.0500	1	08/26/22	08/26/22	
Total Xylenes	ND	0.0250	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*98.5 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*98.5 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2235057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane		*92.8 %*	*50-200*	*08/25/22*	*08/26/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2235062
Chloride	ND	20.0	1	08/26/22	08/26/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/29/2022 4:14:48PM

CS-1

E208147-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Benzene	ND	0.0250	1	08/26/22	08/26/22	
Ethylbenzene	ND	0.0250	1	08/26/22	08/26/22	
Toluene	ND	0.0250	1	08/26/22	08/26/22	
o-Xylene	ND	0.0250	1	08/26/22	08/26/22	
p,m-Xylene	ND	0.0500	1	08/26/22	08/26/22	
Total Xylenes	ND	0.0250	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2235057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane		*93.4 %*	*50-200*	*08/25/22*	*08/26/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2235062
Chloride	ND	20.0	1	08/26/22	08/26/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/29/2022 4:14:48PM

CS-2

E208147-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Benzene	ND	0.0250	1	08/26/22	08/26/22	
Ethylbenzene	ND	0.0250	1	08/26/22	08/26/22	
Toluene	ND	0.0250	1	08/26/22	08/26/22	
o-Xylene	ND	0.0250	1	08/26/22	08/26/22	
p,m-Xylene	ND	0.0500	1	08/26/22	08/26/22	
Total Xylenes	ND	0.0250	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*95.8 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*98.1 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*95.8 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*98.1 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2235057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane		*96.7 %*	*50-200*	*08/25/22*	*08/26/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2235062
Chloride	ND	20.0	1	08/26/22	08/26/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/29/2022 4:14:48PM

CS-3

E208147-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Benzene	ND	0.0250	1	08/26/22	08/26/22	
Ethylbenzene	ND	0.0250	1	08/26/22	08/26/22	
Toluene	ND	0.0250	1	08/26/22	08/26/22	
o-Xylene	ND	0.0250	1	08/26/22	08/26/22	
p,m-Xylene	ND	0.0500	1	08/26/22	08/26/22	
Total Xylenes	ND	0.0250	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2235057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane		*88.3 %*	*50-200*	*08/25/22*	*08/26/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2235062
Chloride	ND	20.0	1	08/26/22	08/26/22	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/29/2022 4:14:48PM

CS-4

E208147-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Benzene	ND	0.0250	1	08/26/22	08/26/22	
Ethylbenzene	ND	0.0250	1	08/26/22	08/26/22	
Toluene	ND	0.0250	1	08/26/22	08/26/22	
o-Xylene	ND	0.0250	1	08/26/22	08/26/22	
p,m-Xylene	ND	0.0500	1	08/26/22	08/26/22	
Total Xylenes	ND	0.0250	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*98.1 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2235066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/22	08/26/22	
Surrogate: Bromofluorobenzene		*98.1 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*	*70-130*	*08/26/22*	*08/26/22*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*08/26/22*	*08/26/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2235057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane		*92.3 %*	*50-200*	*08/25/22*	*08/26/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2235062
Chloride	ND	20.0	1	08/26/22	08/26/22	

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/29/2022 4:14:48PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2235066-BLK1)									Prepared: 08/26/22 Analyzed: 08/26/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.476*		*0.500*		*95.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.510*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.488*		*0.500*		*97.5*	*70-130*			
LCS (2235066-BS1)									Prepared: 08/26/22 Analyzed: 08/26/22
Benzene	2.25	0.0250	2.50		90.1	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.6	70-130			
Toluene	2.27	0.0250	2.50		90.9	70-130			
o-Xylene	2.47	0.0250	2.50		98.7	70-130			
p,m-Xylene	4.85	0.0500	5.00		97.0	70-130			
Total Xylenes	7.32	0.0250	7.50		97.5	70-130			
Surrogate: Bromofluorobenzene	*0.504*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.508*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.498*		*0.500*		*99.5*	*70-130*			
LCS Dup (2235066-BSD1)									Prepared: 08/26/22 Analyzed: 08/26/22
Benzene	2.31	0.0250	2.50		92.3	70-130	2.39	23	
Ethylbenzene	2.39	0.0250	2.50		95.5	70-130	1.10	27	
Toluene	2.25	0.0250	2.50		89.9	70-130	1.11	24	
o-Xylene	2.45	0.0250	2.50		98.0	70-130	0.671	27	
p,m-Xylene	4.76	0.0500	5.00		95.2	70-130	1.81	27	
Total Xylenes	7.21	0.0250	7.50		96.2	70-130	1.42	27	
Surrogate: Bromofluorobenzene	*0.491*		*0.500*		*98.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.496*		*0.500*		*99.1*	*70-130*			
Surrogate: Toluene-d8	*0.491*		*0.500*		*98.1*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/29/2022 4:14:48PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2235066-BLK1)									Prepared: 08/26/22 Analyzed: 08/26/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.476*		*0.500*		*95.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.510*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.488*		*0.500*		*97.5*	*70-130*			
LCS (2235066-BS2)									Prepared: 08/26/22 Analyzed: 08/26/22
Gasoline Range Organics (C6-C10)	43.8	20.0	50.0		87.7	70-130			
Surrogate: Bromofluorobenzene	*0.489*		*0.500*		*97.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.488*		*0.500*		*97.5*	*70-130*			
Surrogate: Toluene-d8	*0.501*		*0.500*		*100*	*70-130*			
LCS Dup (2235066-BSD2)									Prepared: 08/26/22 Analyzed: 08/26/22
Gasoline Range Organics (C6-C10)	43.8	20.0	50.0		87.5	70-130	0.162	20	
Surrogate: Bromofluorobenzene	*0.483*		*0.500*		*96.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.504*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.500*		*0.500*		*99.9*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/29/2022 4:14:48PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2235057-BLK1)									Prepared: 08/25/22 Analyzed: 08/26/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*43.9*		*50.0*		*87.7*	*50-200*			
LCS (2235057-BS1)									Prepared: 08/25/22 Analyzed: 08/26/22
Diesel Range Organics (C10-C28)	231	25.0	250		92.3	38-132			
Surrogate: n-Nonane	*39.9*		*50.0*		*79.9*	*50-200*			
Matrix Spike (2235057-MS1)				**Source: E208146-03**					Prepared: 08/25/22 Analyzed: 08/26/22
Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.6	38-132			
Surrogate: n-Nonane	*37.1*		*50.0*		*74.2*	*50-200*			
Matrix Spike Dup (2235057-MSD1)				**Source: E208146-03**					Prepared: 08/25/22 Analyzed: 08/26/22
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.5	38-132	3.36	20	
Surrogate: n-Nonane	*40.3*		*50.0*		*80.5*	*50-200*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/29/2022 4:14:48PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2235062-BLK1)									Prepared: 08/26/22 Analyzed: 08/26/22
Chloride	ND	20.0							
LCS (2235062-BS1)									Prepared: 08/26/22 Analyzed: 08/26/22
Chloride	246	20.0	250		98.5	90-110			
LCS Dup (2235062-BSD1)									Prepared: 08/26/22 Analyzed: 08/29/22
Chloride	269	20.0	250		108	90-110	8.97	20	

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

Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Hack Berry 19 Fed 1 Batt.	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/29/22 16:14

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

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

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

Project Information | Chain of Custody | Page 1 of 1

Client: Pima Environmental Services	Bill To	Lab Use Only	TAT / EPA Program
Project: HackBerry 19 Fed 1 Batt.	Attention: Devon Energy	Lab WO# E208147	Job Number 01058-0007
Project Manager: Tom Bynum	Address:	1D: X	2D	3D	Standard
Address: 5614 N. Lovington Hwy.	City, State, Zip	CWA	SDWA	RCRA
City, State, Zip Hobbs, NM, 88240	Phone:			
Phone: 580-748-1613	Email:	State: NM: X	CO	UT	AZ	TX
Email: tom@pimaoil.com	Pima Project # 143					
Report due by:						

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC NM; BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
5:00	8/24/22	S		CSW-1	1	X	
5:05	"	"		CSW-2	2	"	
5:10	"	"		CSW-3	3	"	
5:15	"	"		CSW-4	4	"	
5:20	"	"		CS-1	5	"	
5:25	"	"		CS-2	6	"	
5:30	"	"		CS-3	7	"	
5:35	"	"		CS-4	8	"	

Additional Instructions: Billing # 20971967

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Ned Rogers

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Alexandra Sanders	8-25-22	9:42A		8-25-22	9:00A
	8-25-22	4:15		8/25/22	10:32
				8/26/22	

Lab Use Only: Received on ice: (Y) N; T1 ____ T2 ____ T3 ____; AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 8/26/2022 11:54:00AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	08/26/22 10:32	Work Order ID:	E208147
Phone:	(575) 631-6977	Date Logged In:	08/25/22 17:21	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	08/26/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: UPS
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

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 141839

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 141839
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2125149254 HACKBERRY 19 FED 001, thank you. This closure is approved.	12/7/2022