State of New Mexico

	Page 1 of 14	<i>45</i>
Incident ID	nkmw1108338334	
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?	
Did this release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X 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 X 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 X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X 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 X 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 ver- contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: 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 well 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	S.

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

Received by OCD: 3/1/2023 3:25:34 PM Form C-141 State of New Mexico
Page 4 Oil Conservation Division

	Page 2 0j 14
Incident ID	nkmw1108338334
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. Title: EHS Professional Printed Name: Dale Woodall Signature: Dale Woodall _____ Date: _3/1/2023__ email: dale.woodall@dvn.com Telephone: 575-748-1838_____ **OCD Only** Received by: Jocelyn Harimon 03/01/2023 Date:

Page 3 of 145

Incident ID nkmw1108338334
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	st be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 NMAG	
X Photographs of the remediated site prior to backfill or photos of the limust be notified 2 days prior to liner inspection)	ner integrity if applicable (Note: appropriate OCD District office
■ Laboratory analyses of final sampling (Note: appropriate ODC District	t office must be notified 2 days prior to final sampling)
Description of remediation activities	
I hereby certify that the information given above is true and complete to the and regulations all operators are required to report and/or file certain release may endanger public health or the environment. The acceptance of a C-141 should their operations have failed to adequately investigate and remediate chuman health or the environment. In addition, OCD acceptance of a C-141 compliance with any other federal, state, or local laws and/or regulations. Trestore, reclaim, and re-vegetate the impacted surface area to the conditions accordance with 19.15.29.13 NMAC including notification to the OCD when Printed Name: Dale Woodall Title:	notifications and perform corrective actions for releases which report by the OCD does not relieve the operator of liability contamination that pose a threat to groundwater, surface water, report does not relieve the operator of responsibility for he responsible party acknowledges they must substantially that existed prior to the release or their final land use in n reclamation and re-vegetation are complete.
Signature: Dale Woodall Date:	
	e:575-748-1838
OCD Only	
Received by: Jocelyn Harimon	Date: 03/01/2023
Closure approval by the OCD does not relieve the responsible party of liabili remediate contamination that poses a threat to groundwater, surface water, hu party of compliance with any other federal, state, or local laws and/or regula	man health, or the environment nor does not relieve the responsible
Closure Approved by: Ashley Maxwell	Date:3/6/2023
Printed Name: Ashley Maxwell	Title: Environmental Specialist



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

February 22nd, 2023

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

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

Re: Site Assessment, Remediation, and Closure Report

Hackberry 19 Federal #002 API No. 30-015-30551

GPS: Latitude 32.6658363 Longitude -103.9105835

UL "C", Sec. 18, T19S, R31E

Eddy County, NM

NMOCD Ref. No. NKMW1108338334

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a spill assessment, remediation activities, and submit this closure report for a crude oil and produced water release that occurred at the Hackberry 19 Federal #002 (Hackberry). The initial C-141 was submitted on April 8th, 2009 (Appendix C). This incident was assigned Incident ID NKMW1108338334 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Hackberry is located approximately twenty-five (25) miles northeast of Carlsbad, NM. This spill site is in Unit C, Section 18, Township 19S, Range 31E, Latitude 32.6658363 Longitude -103.9105835, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- Eolian and piedmont deposits (Holocene to middle Pleistocene) interlayered eolian sands and piedmont-slope deposits (QEP). The soil in this area is made up of Berino loamy fine sands, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a medium potential for karst geology to be present in the area of the Hackberry (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest defined groundwater in this area is between 51 to 100 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 167 BGS. The closest waterway and is an unnamed playa, located approximately 2.1 miles to the west of this location. See Appendix A for referenced water surveys.

	Table 1 NMAC and Closure Criteria 19.15.29											
Depth to		Cons	tituent & Limits									
Groundwater (Appendix A)	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene							
<50'	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

<u>NJMW1319349423:</u> On March 9th, 2009, a lease operator discovered the heater treater leaking fluid. Upon investigation it was revealed that the heater's fire tube had developed a pin hole due to corrosion, which caused fluid to release onto the ground. The released fluids were calculated to be approximately 5 barrels (bbls) of oil and 5 barrels (bbls) of produced water. No fluids were recovered from the area.

Remediation Activities, Site Assessment, and Soil Sampling Results

On July 29th, 2020, Pima Environmental mobilized personnel to the Hackberry in order to assess the area and try to determine the horizontal and vertical extent of the release. We sampled the areas around the heater treater vessel. Laboratory results of this sampling event can be found in the following data table. An initial site map can be found in Figure 4.

7-29-2020 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')													
	Devon Energy - Hackberry 18 Fed 2												
Sample Dat	e 7-29-20		N	M Approv	ved Labora	itory Resi	ılts						
Sample ID Depth (BGS) BTEX Benzene GRO DRO MRO Tota mg/kg mg								Cl mg/kg					
	0-6"	ND	ND	ND	ND	ND	ND	ND					
S-1	1'	ND	ND	ND	ND	ND	ND	ND					
3 1	2'	ND	ND	ND	ND	ND	ND	ND					
	3'	ND	ND	ND	ND	ND	ND	ND					
	0-6"	ND	ND	ND	ND	ND	ND	ND					
S-2	1'	ND	ND	ND	ND	ND	ND	ND					
3-2	2'	ND	ND	ND	ND	ND	ND	ND					
	3'	ND	ND	ND	ND	ND	ND	ND					
	0-6"	ND	ND	ND	ND	ND	ND	ND					
6.3	1'	ND	ND	ND	ND	ND	ND	ND					
S-3	2'	ND	ND	ND	ND	ND	ND	ND					
	3'	ND	ND	ND	ND	ND	ND	ND					
	0-6"	ND	ND	ND	ND	ND	ND	ND					
C 4	1'	ND	ND	ND	ND	ND	ND	ND					
S-4	2'	ND	ND	ND	ND	ND	ND	ND					
	3'	ND	ND	ND	ND	ND	ND	ND					
	0-6"	ND	ND	ND	ND	ND	ND	ND					
6.5	1'	ND	ND	ND	ND	ND	ND	ND					
S-5	2'	ND	ND	ND	ND	ND	ND	ND					
	3'	ND	ND	ND	ND	ND	ND	ND					
S-6	0-6"	ND	ND	ND	ND	ND	ND	80					
	0-6"	ND	ND	ND	ND	ND	ND	5000					
6.7	1'	ND	ND	ND	ND	ND	ND	1200					
S-7	2'	ND	ND	ND	ND	ND	ND	390					
	3'	ND	ND	ND	ND	ND	ND	240					
	0-6"	ND	ND	ND	1300	2300	3600	ND					
6.0	1'	ND	ND	ND	660	1200	1860	ND					
S-8	2'	ND	ND	ND	ND	ND	ND	ND					
Ì	3'	ND	ND	ND	55	96	151	ND					

	0-6"	ND	ND	ND	ND	ND	ND	ND
S-9	1'	ND	ND	ND	ND	ND	ND	ND
3-9	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
	0-6"	ND	ND	ND	ND	ND	ND	140
S-10	1'	ND	ND	ND	ND	ND	ND	ND
3-10	2'	ND	ND	ND	23	ND	23	66
	3'	ND	ND	ND	ND	ND	ND	ND
	0-6"	ND	ND	ND	17000	9100	26100	ND
S-11	1'	ND	ND	ND	940	980	1920	ND
2-11	2'	ND	ND	ND	4300	3200	7500	ND
	3'	ND	ND	ND	250	270	520	ND
	0-6"	ND	ND	ND	ND	ND	ND	100
C 12	1'	ND	ND	ND	ND	ND	ND	ND
S-12	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND

ND- Analyte Not Detected

Remediation Activities:

On April 1st, 2021, Pima mobilized personnel and equipment to conduct remedial activities. We excavated the areas around S-7, S-8, and S-11. Confirmation samples were obtained from the bottoms and sidewalls of these excavations. The laboratory results of this sampling event can be found in the following data table. A confirmation site map can be found in Figure 5.

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100') **DEVON ENERGY - HACKBERRY 18 FED 2 Sample Date 4-1-2021 NM Approved Laboratory Results** Total **BTEX** Benzene **GRO DRO MRO** CI Depth Sample ID **TPH** (BGS) mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg 4' ND ND ND ND ND ND ND S-7 Wall ND ND ND ND ND ND ND 2' ND ND ND ND ND ND ND S-8 Wall ND ND ND ND ND ND ND 3' ND ND ND ND ND ND ND S-11 Wall ND ND ND ND ND ND ND

4-1-2021 Confirmation Soil Sample Results

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

On April 13th, 2021, Pima returned to the site to backfill the excavated areas with clean backfill material. Please see Appendix D for photographic documentation.

Countermeasures due to Rejection:

On January 17th and 30th, 2023, Pima personnel returned to the Hackberry to achieve full delineation of the affected area. A total of two soil samples were collected for areas overlapping sample points S8 and S11, down to 4' bgs, and four composite side wall samples were collected surrounding the release area. Laboratory results of this sampling event can be found in the following data table. The previous rejected work plan report can be found in Appendix F.

1-17-2023, 1-30-2023 Soil Sample Results

	NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')													
	Devon Energy - Hackberry 18 Fed 2													
	NM Approved Laboratory Results													
Sample ID	and the second of the second o													
S-8	1/17/2023	4'	ND											
S-11	1/17/2023	4'	ND											
SW 1			ND											
SW 2	1/30/2023	Curface	ND											
SW 3	1/30/2023	/2023 Surface ND ND ND ND ND ND ND N												
SW 4			ND											

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Pima Environmental believes groundwater levels have been adequately characterized to be between 51-100' bgs. Also, horizontal and vertical delineation has been successfully determined.

Based on the sample results, the bottoms and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. In combination with the previous excavation affected area, we believe the impacted area has been adequately remediated. See Appendix D for Photographic Documentation.

Closure Request

Due to analytical levels falling below NMOCD closure criteria, no further action is required.

After careful review, Pima requests that this incident, NKMW1108338334 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 Sebastian Orozco at 619-721-4813 or Sebastian@pimaoil.com.

Respectfully,

Sebastian Orozco

Environmental Professional

Pima Environment Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Initial Site Map
- 5- Confirmation Site Map

Appendices:

Appendix A – Referenced Water Surveys

Appendix B – Soil Survey and Geological Data

Appendix C – C-141 Form and Correspondence

Appendix D – Photographic Documentation

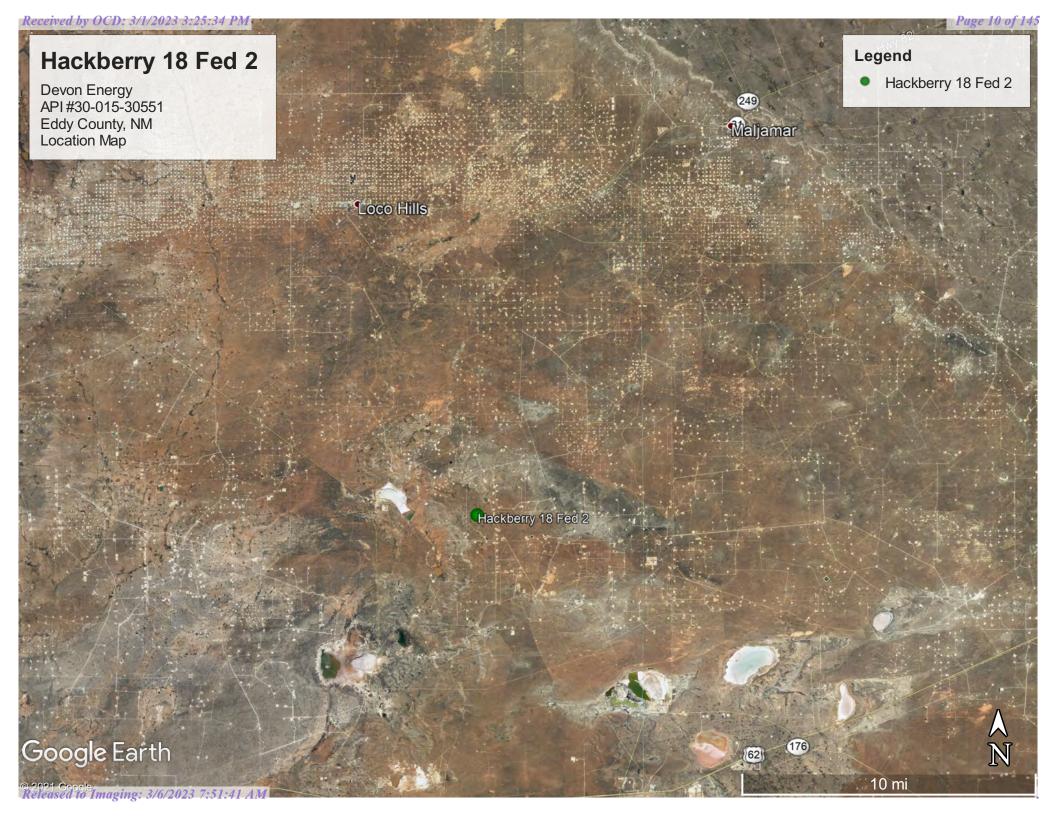
Appendix E – Laboratory Reports

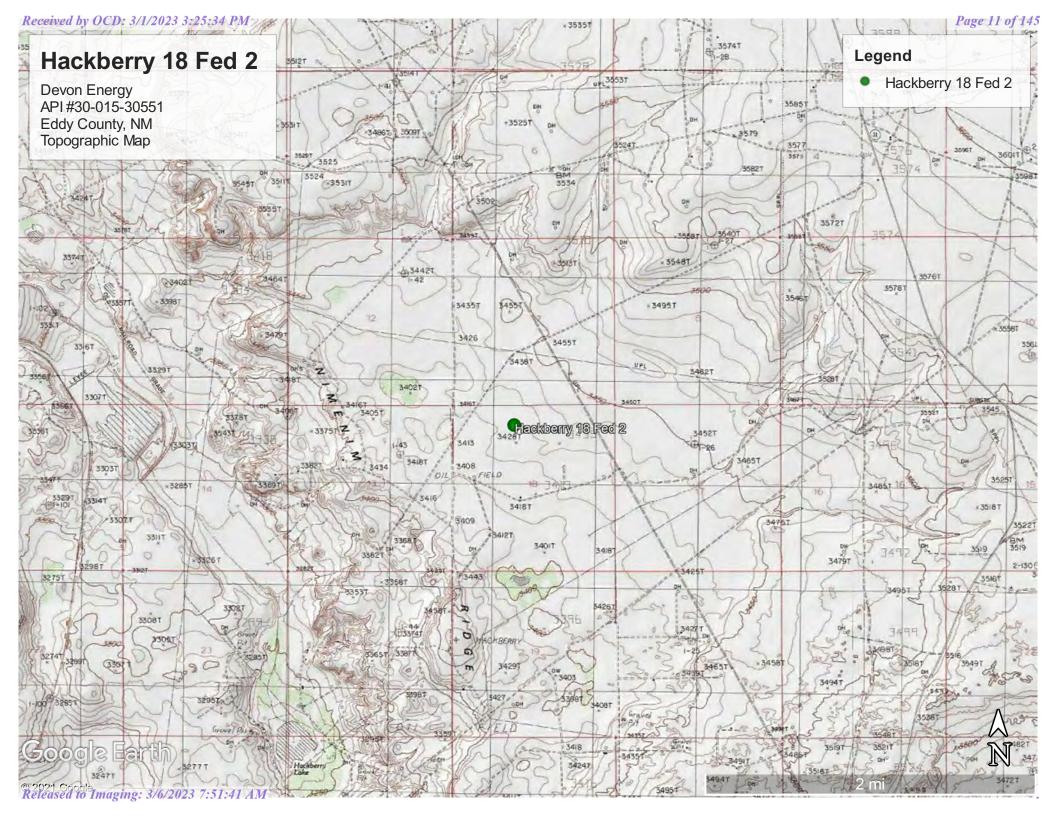
Appendix F – Rejected Closure Report

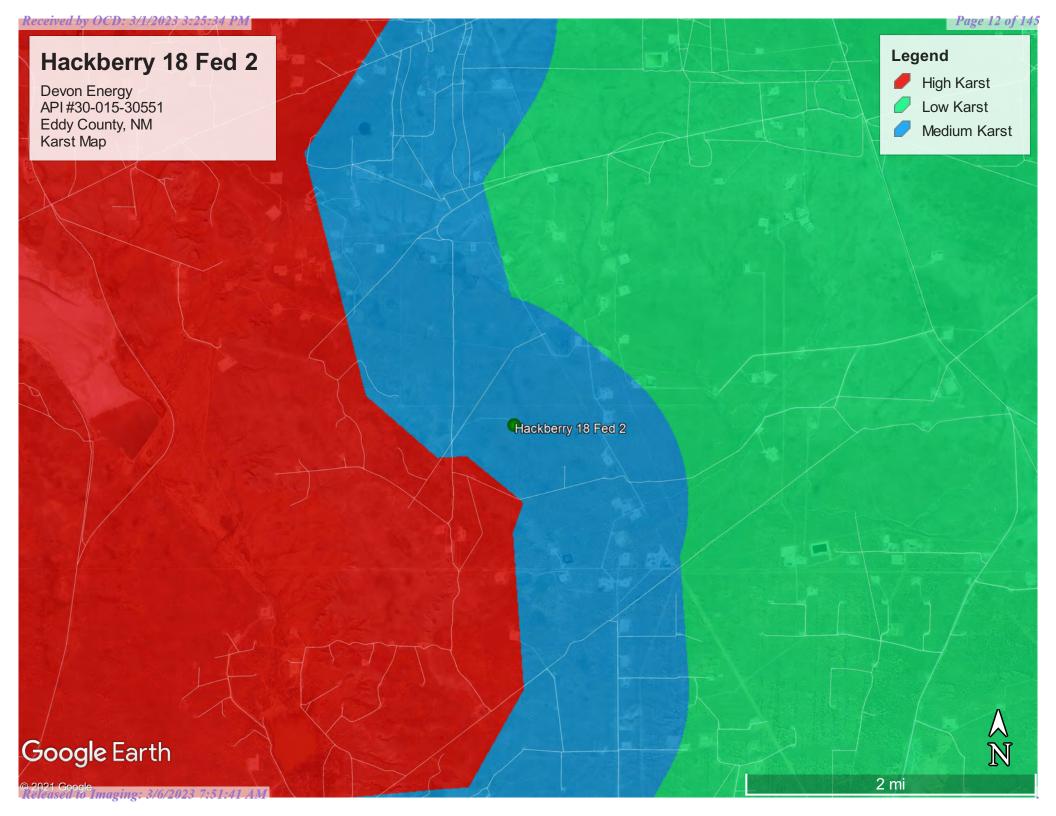


Figures:

- 1-Location Map
- 2-TOPO Map
- 3-Karst Map
- 4-Initial Site Map
- 5-Confirmation Map













Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

closed)

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

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

(In feet)

		POD Sub-		Q	Q	Q								W	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	thWellDep	thWater Co	lumn
<u>CP 01907 POD1</u>		CP	ED	4	2	2	18	19S	31E	603017	3614737	863			
<u>CP 00873 POD1</u>		CP	LE		1	1	19	19S	31E	601772	3613147*	1663	340	180	160
<u>CP 00357 POD1</u>		CP	ED	4	4	1	24	19S	30E	600667	3612631*	2601	630		
<u>CP 00357 POD2</u>		CP	ED	4	3	1	24	19S	30E	600265	3612627*	2853	630		
<u>CP 00722 POD2</u>		CP	ED	2	1	1	25	19S	30E	600276	3611620*	3664	350	65	285
<u>CP 00647 POD1</u>	О	CP	ED	4	2	2	15	19S	30E	598235	3614621*	3921	200	92	108
<u>CP 00829 POD1</u>		CP	LE		2	4	16	19S	31E	606165	3614009*	4081	120		
<u>CP 00822 POD1</u>		CP	LE		4	4	15	19S	30E	598148	3613516*	4196	90		

Average Depth to Water:

112 feet

Minimum Depth:

65 feet

Maximum Depth:

180 feet

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 602154.11

Northing (Y): 3614766.13

Radius: 5000

*UTM location was derived from PLSS - see Help

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

1/24/23 10:46 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng NA CP 01907 POD1 18 19S 31E

 \mathbf{X} 603017

3614737

Driller License: 1249 **Driller Company:**

ATKINS ENGINEERING ASSOC. INC.

Driller Name: JACKIE ATKINS

Drill Start Date: 07/13/2022 Log File Date:

Drill Finish Date:

07/13/2022

Plug Date:

08/11/2022

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

Depth Water:

Casing Perforations:

Bottom Top

> 0 55

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

2/22/23 9:18 AM

POINT OF DIVERSION SUMMARY



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

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

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> to access real-time data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

site_no list =

• 323734103523901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323734103523901 19S.31E.28.33124

Available data for this site Groundwater: Field measurements 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.

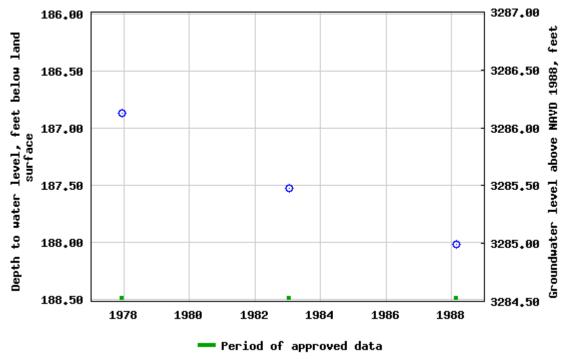
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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. <u>Download a presentation-quality graph</u>

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

Accessibility

FOIA

Privacy

Policies and Notices

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

Title: Groundwater for USA: Water Levels

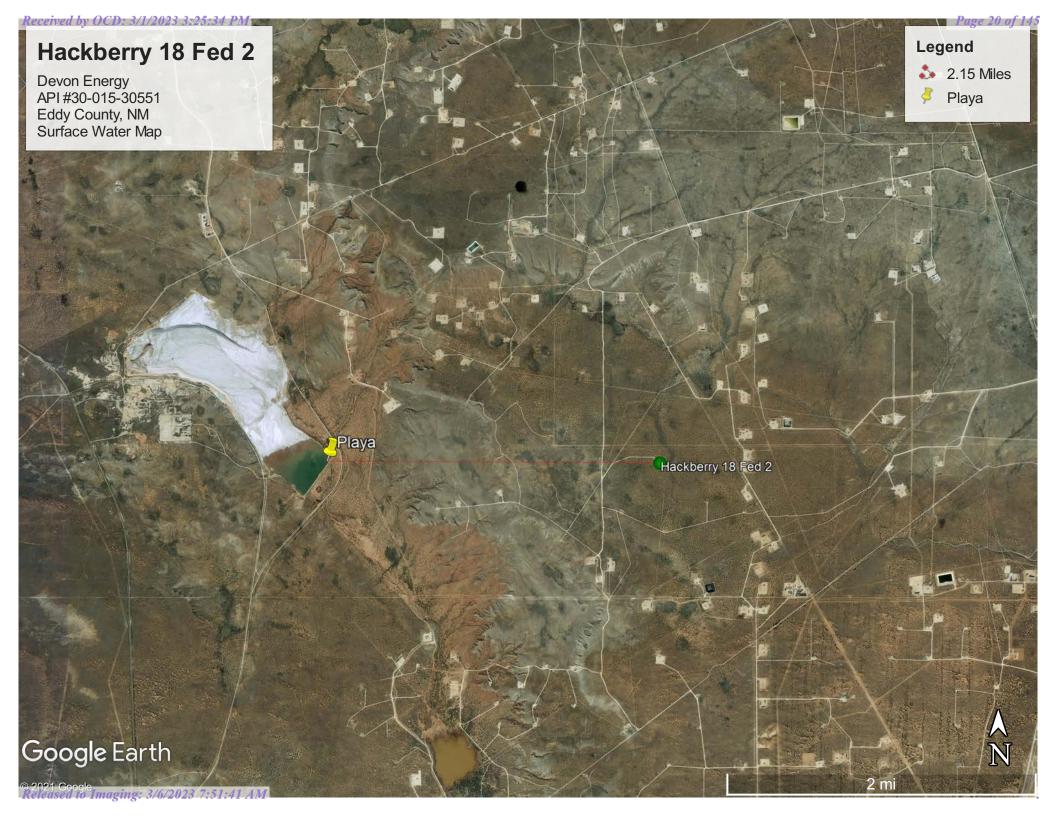
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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

Page Last Modified: 2021-04-13 09:19:20 EDT

0.6 0.54 nadww01







Appendix B

Soil Survey & Geological Data FEMA Flood Map Wetlands Map

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w42 Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 99 percent Minor components: 1 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Berino

Setting

Landform: Fan piedmonts, plains

Landform position (three-dimensional): Riser

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

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 12 inches: loamy fine sand H2 - 12 to 58 inches: sandy clay loam H3 - 58 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0

mmhos/cm)

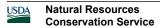
Sodium adsorption ratio, maximum: 1.0

Available water capacity: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B



Ecological site: R042XC007NM - Loamy Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 1 percent Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Data Source Information

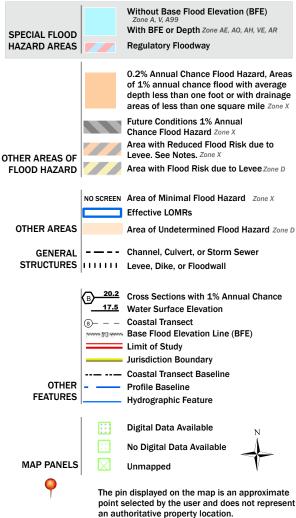
Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

National Flood Hazard Layer FIRMette





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



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 8/19/2020 at 10:45 AM 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.

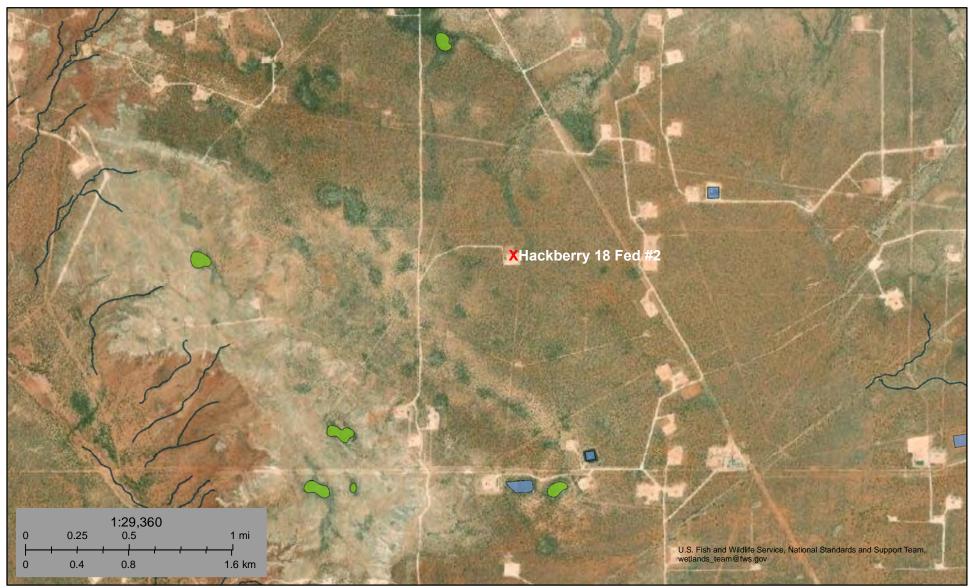
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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



1,500



Wetlands Map



January 24, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Lake

Freshwater Forested/Shrub Wetland

Other

Riverine

Freshwater Pond

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Appendix C

C-141's:

48-Hour Notification

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

State of New Mexico Energy Minerals and Natural Resources

APR -8 2009

Form C-141 Revised March 17, 1999

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

30-015-				ease Notific	catio	n and Co	orrective A	ction	l	
NKMW				OF		TOR			nitial Re	port 🛛 Final Repor
Name of (Company	Devon E	nergy	1/137		Contact□	Roger Herna	ndez		
Address				U		Telephone	e No.□ 575-7	48-52	.38	
Artesia, N						· · · · · · · · · · · · · · · · · · ·		•		
Facility Name Hackberry 18 Fed #2 Facility Type □ Gas Well										
Surface O	wner		<u></u>	Mineral	Owne	er			Lease	No. 🗆
							L TE A CIE		1	
Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County										
Offit Letter	18	19S	31E	660	North		1980	West	West Line	Eddy
				NAT	URE	OF REL	EASE			
Type of Rele		d 5 BO, 5 BP	W				Release10			Recovered[]0
Source of Re Hole in fire t						Date and F 3-09-2009	lour of Occurrenc	ee	Date and 10:00 AN	Hour of Discovery □ 3-9-2009
Was Immedia				1.,		If YES, To				
			Yes _	No Not Re	equired		BLM – Carlsbad			
By Whom? [Was a Water							lour 3-9-2009 3 Solume Impacting t			
was a water	Course Reac		Yes [] No		11 1ES, VC	nume impacting t	ne wal	ercourse.	
If a Watercou				ķ		<u> </u>		······ ,		
		r ====================================				* , *	g see off			•
N/A				***		TARTT (1)			. Part .	
-										· · · · · · · · · · · · · · · · · · ·
Describe Cau					ar lookii	no fluid U	n investigation is	11/00 =0:	anlad that t	he heater's fire tube had
developed a	ocation tile oin hole due	to corrosion,	which rel	eased approximat	ely 5 bb	ols of oil and f	bbls of produced	was rev I water.	There wa	s no standing fluid; therefore, no
product was i		<u>-</u>			-		•		•	
Describe-Are	a Affected a	and Cleanup A	Action Tak	cen.*	· .					,
				ns, and blend in n	ew mate	erial to reduce	contamination.	Will rep	eat procedi	ure as needed.
I hereby certi	fy that the i	nformation oi	ven above	is true and comp	lete to t	he best of my	knowledge and u	ndersta	nd that nurs	suant to NMOCD rules and
regulations a	ll operators	are required t	o report ar	nd/or file certain r	elease n	otifications a	nd perform correc	tive act	ions for rel	eases which may endanger
public health	or the envir	onment. The	acceptano	ce of a C-141 repo	ort by th	e NMOCD m	arked as "Final Re	eport" d	loes not reli	ieve the operator of liability r, surface water, human health
or the enviror	nment. In a	ddition, NMC	CD accep	tance of a C-141	report d	loes not reliev	e the operator of i	respons	ibility for c	ompliance with any other
federal, state,										
	1	· /	16.	· n			OIL CONS			DIVISION
Signature:	farie	nne (derk	er				Acc		or record
Printed Name	· Adrienne	Verkler				Approved by	□District Supervi	sor:	NMO	、
-				· · · · · · · · · · · · · · · · · · ·						
Title: Field 7	ech II					Approval Dat	te:		Expiration	Date:
Date: 3-13-2	009/44/77	Phone: 575-1	748-0174.			Conditions of	Approval:			Attached
Attach Ad				(y _{./)}					***************************************	100 LLA
	n sans		1	- 79° °	Witne	essed samp	les are to be o	btaine	ed	2171.000
· ' '				21 V) water			a and lab anal	yses		The second secon
			·-		subm	itted to OC	D for closure			

consideration.

te of New Mexico

Incident ID	nkmw1108338334
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?			
Did this release impact groundwater or surface water?	Yes X No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?			
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 X 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 X 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 X No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No		
Are the lateral extents of the release within a 100-year floodplain?			
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.

Received by OCD: 3/1/2023 3:25:34 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 29 of 14.
Incident ID	nkmw1108338334
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: __EHS Professional _______

Signature: __Dale Woodall _______ Date: __3/1/2023______

email: __dale.woodall@dvn.com ______ Telephone: __575-748-1838________

OCD Only

Received by: _______ Date: _________

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Incident ID	nkmw1108338334
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)		
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:EHS Professional Date:3/1/2023 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:		



Appendix D

Photographic Documentation



DEVON ENERGY - HACKBERRY 18 FED #2



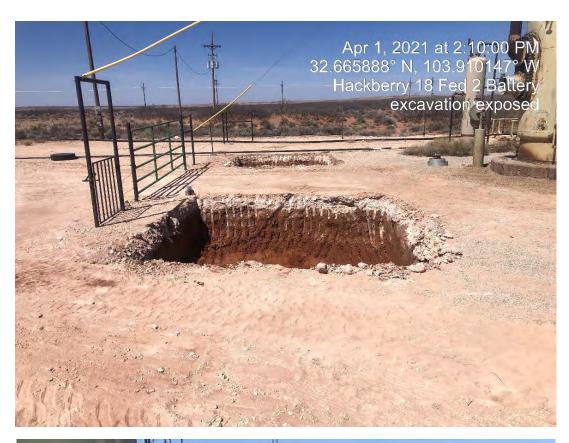






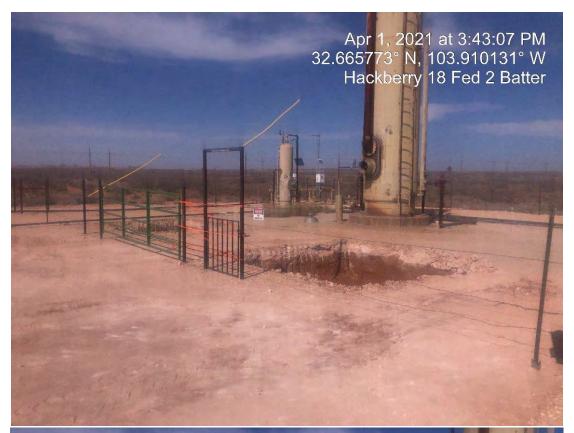
























Appendix E

Laboratory Reports

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109



August 11, 2020

Chris Jones

Pima Environmental Services LLC 1601 N. Turner Ste 500

Hobbs, NM 88240 TEL: (575) 631-6977

FAX:

RE: Hackberry 18 Fed 2 Battery OrderNo.: 2007F82

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 45 sample(s) on 7/31/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-001

Client Sample ID: S1-0-6"

Collection Date: 7/29/2020 8:00:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/5/2020 2:45:59 AM	54162
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/2/2020 7:11:05 AM	54093
Surr: BFB	102	70-130	%Rec	1	8/2/2020 7:11:05 AM	54093
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/6/2020 1:41:50 PM	54143
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/6/2020 1:41:50 PM	54143
Surr: DNOP	91.1	30.4-154	%Rec	1	8/6/2020 1:41:50 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/2/2020 7:11:05 AM	54093
Toluene	ND	0.050	mg/Kg	1	8/2/2020 7:11:05 AM	54093
Ethylbenzene	ND	0.050	mg/Kg	1	8/2/2020 7:11:05 AM	54093
Xylenes, Total	ND	0.099	mg/Kg	1	8/2/2020 7:11:05 AM	54093
Surr: 1,2-Dichloroethane-d4	92.7	70-130	%Rec	1	8/2/2020 7:11:05 AM	54093
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	8/2/2020 7:11:05 AM	54093
Surr: Dibromofluoromethane	101	70-130	%Rec	1	8/2/2020 7:11:05 AM	54093
Surr: Toluene-d8	100	70-130	%Rec	1	8/2/2020 7:11:05 AM	54093

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-002

Client Sample ID: S1-1'

Collection Date: 7/29/2020 8:03:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/5/2020 2:58:20 AM	54162
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/2/2020 7:40:28 AM	54093
Surr: BFB	106	70-130	%Rec	1	8/2/2020 7:40:28 AM	54093
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/6/2020 1:51:49 PM	54143
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/6/2020 1:51:49 PM	54143
Surr: DNOP	98.0	30.4-154	%Rec	1	8/6/2020 1:51:49 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/2/2020 7:40:28 AM	54093
Toluene	ND	0.050	mg/Kg	1	8/2/2020 7:40:28 AM	54093
Ethylbenzene	ND	0.050	mg/Kg	1	8/2/2020 7:40:28 AM	54093
Xylenes, Total	ND	0.10	mg/Kg	1	8/2/2020 7:40:28 AM	54093
Surr: 1,2-Dichloroethane-d4	98.3	70-130	%Rec	1	8/2/2020 7:40:28 AM	54093
Surr: 4-Bromofluorobenzene	92.7	70-130	%Rec	1	8/2/2020 7:40:28 AM	54093
Surr: Dibromofluoromethane	106	70-130	%Rec	1	8/2/2020 7:40:28 AM	54093
Surr: Toluene-d8	104	70-130	%Rec	1	8/2/2020 7:40:28 AM	54093

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-003

Matrix: SOIL

Collection Date: 7/29/2020 8:06:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S1-2'

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/5/2020 3:10:41 AM	54162
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/2/2020 8:10:08 AM	54093
Surr: BFB	104	70-130	%Rec	1	8/2/2020 8:10:08 AM	54093
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	8/6/2020 2:01:47 PM	54143
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/6/2020 2:01:47 PM	54143
Surr: DNOP	97.9	30.4-154	%Rec	1	8/6/2020 2:01:47 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIS	ST .				Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	8/2/2020 8:10:08 AM	54093
Toluene	ND	0.049	mg/Kg	1	8/2/2020 8:10:08 AM	54093
Ethylbenzene	ND	0.049	mg/Kg	1	8/2/2020 8:10:08 AM	54093
Xylenes, Total	ND	0.098	mg/Kg	1	8/2/2020 8:10:08 AM	54093
Surr: 1,2-Dichloroethane-d4	98.9	70-130	%Rec	1	8/2/2020 8:10:08 AM	54093
Surr: 4-Bromofluorobenzene	96.1	70-130	%Rec	1	8/2/2020 8:10:08 AM	54093
Surr: Dibromofluoromethane	101	70-130	%Rec	1	8/2/2020 8:10:08 AM	54093
Surr: Toluene-d8	103	70-130	%Rec	1	8/2/2020 8:10:08 AM	54093

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-004

Matrix: SOIL

Collection Date: 7/29/2020 8:09:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S1-3'

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	8/4/2020 8:20:10 PM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/2/2020 12:37:13 PM	54093
Surr: BFB	106	70-130	%Rec	1	8/2/2020 12:37:13 PM	54093
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/6/2020 2:11:42 PM	54143
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/6/2020 2:11:42 PM	54143
Surr: DNOP	105	30.4-154	%Rec	1	8/6/2020 2:11:42 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	8/2/2020 12:37:13 PM	54093
Toluene	ND	0.050	mg/Kg	1	8/2/2020 12:37:13 PM	54093
Ethylbenzene	ND	0.050	mg/Kg	1	8/2/2020 12:37:13 PM	54093
Xylenes, Total	ND	0.10	mg/Kg	1	8/2/2020 12:37:13 PM	54093
Surr: 1,2-Dichloroethane-d4	95.5	70-130	%Rec	1	8/2/2020 12:37:13 PM	54093
Surr: 4-Bromofluorobenzene	88.4	70-130	%Rec	1	8/2/2020 12:37:13 PM	54093
Surr: Dibromofluoromethane	98.0	70-130	%Rec	1	8/2/2020 12:37:13 PM	54093
Surr: Toluene-d8	102	70-130	%Rec	1	8/2/2020 12:37:13 PM	54093

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-005

Matrix: SOIL

Collection Date: 7/29/2020 8:11:00 AM Received Date: 7/31/2020 9:55:00 AM

Client Sample ID: S2-0-6"

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/4/2020 9:22:11 PM	54167
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst	: DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/2/2020 1:07:00 PM	54093
Surr: BFB	108	70-130	%Rec	1	8/2/2020 1:07:00 PM	54093
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/6/2020 2:21:39 PM	54143
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/6/2020 2:21:39 PM	54143
Surr: DNOP	89.6	30.4-154	%Rec	1	8/6/2020 2:21:39 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIS	ST .				Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/2/2020 1:07:00 PM	54093
Toluene	ND	0.050	mg/Kg	1	8/2/2020 1:07:00 PM	54093
Ethylbenzene	ND	0.050	mg/Kg	1	8/2/2020 1:07:00 PM	54093
Xylenes, Total	ND	0.10	mg/Kg	1	8/2/2020 1:07:00 PM	54093
Surr: 1,2-Dichloroethane-d4	91.4	70-130	%Rec	1	8/2/2020 1:07:00 PM	54093
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	8/2/2020 1:07:00 PM	54093
Surr: Dibromofluoromethane	96.6	70-130	%Rec	1	8/2/2020 1:07:00 PM	54093
Surr: Toluene-d8	104	70-130	%Rec	1	8/2/2020 1:07:00 PM	54093

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-006

Client Sample ID: S2-1'

Collection Date: 7/29/2020 8:14:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/4/2020 9:59:25 PM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/2/2020 1:36:51 PM	54099
Surr: BFB	105	70-130	%Rec	1	8/2/2020 1:36:51 PM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/6/2020 2:31:36 PM	54143
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/6/2020 2:31:36 PM	54143
Surr: DNOP	96.4	30.4-154	%Rec	1	8/6/2020 2:31:36 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/2/2020 1:36:51 PM	54099
Toluene	ND	0.049	mg/Kg	1	8/2/2020 1:36:51 PM	54099
Ethylbenzene	ND	0.049	mg/Kg	1	8/2/2020 1:36:51 PM	54099
Xylenes, Total	ND	0.098	mg/Kg	1	8/2/2020 1:36:51 PM	54099
Surr: 1,2-Dichloroethane-d4	95.9	70-130	%Rec	1	8/2/2020 1:36:51 PM	54099
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	8/2/2020 1:36:51 PM	54099
Surr: Dibromofluoromethane	97.7	70-130	%Rec	1	8/2/2020 1:36:51 PM	54099
Surr: Toluene-d8	101	70-130	%Rec	1	8/2/2020 1:36:51 PM	54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-007

Client Sample ID: S2-2'

Collection Date: 7/29/2020 8:17:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	JMT
Chloride	ND	60	mg/Kg	20	8/4/2020 10:11:49 PM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/2/2020 3:06:24 PM	54099
Surr: BFB	103	70-130	%Rec	1	8/2/2020 3:06:24 PM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/6/2020 2:41:32 PM	54143
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/6/2020 2:41:32 PM	54143
Surr: DNOP	107	30.4-154	%Rec	1	8/6/2020 2:41:32 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	DJF
Benzene	ND	0.025	mg/Kg	1	8/2/2020 3:06:24 PM	54099
Toluene	ND	0.050	mg/Kg	1	8/2/2020 3:06:24 PM	54099
Ethylbenzene	ND	0.050	mg/Kg	1	8/2/2020 3:06:24 PM	54099
Xylenes, Total	ND	0.099	mg/Kg	1	8/2/2020 3:06:24 PM	54099
Surr: 1,2-Dichloroethane-d4	90.9	70-130	%Rec	1	8/2/2020 3:06:24 PM	54099
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	1	8/2/2020 3:06:24 PM	54099
Surr: Dibromofluoromethane	98.0	70-130	%Rec	1	8/2/2020 3:06:24 PM	54099
Surr: Toluene-d8	105	70-130	%Rec	1	8/2/2020 3:06:24 PM	54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

8/2/2020 4:35:54 PM

54099

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-008

Surr: Toluene-d8

Collectio

Collection Date: 7/29/2020 8:20:00 AM Received Date: 7/31/2020 9:55:00 AM

Client Sample ID: S2-3'

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: **JMT** Chloride ND 60 mg/Kg 20 8/4/2020 10:24:14 PM 54167 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: **DJF** Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 8/2/2020 4:35:54 PM 54099 Surr: BFB 54099 104 70-130 %Rec 1 8/2/2020 4:35:54 PM **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.8 mg/Kg 8/6/2020 2:51:29 PM 54143 Motor Oil Range Organics (MRO) ND 1 54143 49 mg/Kg 8/6/2020 2:51:29 PM Surr: DNOP 30.4-154 %Rec 8/6/2020 2:51:29 PM 54143 126 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: DJF ND 8/2/2020 4:35:54 PM 54099 Benzene 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 8/2/2020 4:35:54 PM 54099 Ethylbenzene ND 0.049 mg/Kg 1 8/2/2020 4:35:54 PM 54099 Xylenes, Total ND 0.098 mg/Kg 8/2/2020 4:35:54 PM 54099 Surr: 1,2-Dichloroethane-d4 95.6 70-130 %Rec 8/2/2020 4:35:54 PM 54099 Surr: 4-Bromofluorobenzene 90.2 70-130 %Rec 1 8/2/2020 4:35:54 PM 54099 Surr: Dibromofluoromethane 99.4 70-130 %Rec 1 8/2/2020 4:35:54 PM 54099

103

70-130

%Rec

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-009

Matrix: SOIL

Collection Date: 7/29/2020 8:23:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S3-0-6"

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/4/2020 10:36:38 PM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/2/2020 5:05:40 PM	54099
Surr: BFB	107	70-130	%Rec	1	8/2/2020 5:05:40 PM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/6/2020 3:01:23 PM	54143
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/6/2020 3:01:23 PM	54143
Surr: DNOP	117	30.4-154	%Rec	1	8/6/2020 3:01:23 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST	ı				Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	8/2/2020 5:05:40 PM	54099
Toluene	ND	0.049	mg/Kg	1	8/2/2020 5:05:40 PM	54099
Ethylbenzene	ND	0.049	mg/Kg	1	8/2/2020 5:05:40 PM	54099
Xylenes, Total	ND	0.098	mg/Kg	1	8/2/2020 5:05:40 PM	54099
Surr: 1,2-Dichloroethane-d4	97.0	70-130	%Rec	1	8/2/2020 5:05:40 PM	54099
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	1	8/2/2020 5:05:40 PM	54099
Surr: Dibromofluoromethane	103	70-130	%Rec	1	8/2/2020 5:05:40 PM	54099
Surr: Toluene-d8	104	70-130	%Rec	1	8/2/2020 5:05:40 PM	54099

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-010

Collection Date: 7/29/2020 8:26:00 AM

Received Date: 7/31/2020 9:55:00 AM

Client Sample ID: S3-1'

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/4/2020 10:49:03 PM	54167
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/2/2020 5:35:17 PM	54099
Surr: BFB	102	70-130	%Rec	1	8/2/2020 5:35:17 PM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	8/6/2020 3:11:16 PM	54143
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/6/2020 3:11:16 PM	54143
Surr: DNOP	105	30.4-154	%Rec	1	8/6/2020 3:11:16 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/2/2020 5:35:17 PM	54099
Toluene	ND	0.050	mg/Kg	1	8/2/2020 5:35:17 PM	54099
Ethylbenzene	ND	0.050	mg/Kg	1	8/2/2020 5:35:17 PM	54099
Xylenes, Total	ND	0.099	mg/Kg	1	8/2/2020 5:35:17 PM	54099
Surr: 1,2-Dichloroethane-d4	93.0	70-130	%Rec	1	8/2/2020 5:35:17 PM	54099
Surr: 4-Bromofluorobenzene	91.9	70-130	%Rec	1	8/2/2020 5:35:17 PM	54099
Surr: Dibromofluoromethane	98.3	70-130	%Rec	1	8/2/2020 5:35:17 PM	54099
Surr: Toluene-d8	99.4	70-130	%Rec	1	8/2/2020 5:35:17 PM	54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

2007F82-011 Lab ID:

Matrix: SOIL

Collection Date: 7/29/2020 8:29:00 AM

Client Sample ID: S3-2'

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/4/2020 11:26:16 PM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/2/2020 6:04:59 PM	54099
Surr: BFB	107	70-130	%Rec	1	8/2/2020 6:04:59 PM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	8/6/2020 3:21:10 PM	54143
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/6/2020 3:21:10 PM	54143
Surr: DNOP	92.2	30.4-154	%Rec	1	8/6/2020 3:21:10 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	8/2/2020 6:04:59 PM	54099
Toluene	ND	0.048	mg/Kg	1	8/2/2020 6:04:59 PM	54099
Ethylbenzene	ND	0.048	mg/Kg	1	8/2/2020 6:04:59 PM	54099
Xylenes, Total	ND	0.096	mg/Kg	1	8/2/2020 6:04:59 PM	54099
Surr: 1,2-Dichloroethane-d4	95.5	70-130	%Rec	1	8/2/2020 6:04:59 PM	54099
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	8/2/2020 6:04:59 PM	54099
Surr: Dibromofluoromethane	99.7	70-130	%Rec	1	8/2/2020 6:04:59 PM	54099
Surr: Toluene-d8	102	70-130	%Rec	1	8/2/2020 6:04:59 PM	54099

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-012

Client Sample ID: S3-3'

Collection Date: 7/29/2020 8:32:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/4/2020 11:38:41 PM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/2/2020 6:34:30 PM	54099
Surr: BFB	106	70-130	%Rec	1	8/2/2020 6:34:30 PM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/6/2020 3:31:01 PM	54143
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/6/2020 3:31:01 PM	54143
Surr: DNOP	95.8	30.4-154	%Rec	1	8/6/2020 3:31:01 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/2/2020 6:34:30 PM	54099
Toluene	ND	0.050	mg/Kg	1	8/2/2020 6:34:30 PM	54099
Ethylbenzene	ND	0.050	mg/Kg	1	8/2/2020 6:34:30 PM	54099
Xylenes, Total	ND	0.10	mg/Kg	1	8/2/2020 6:34:30 PM	54099
Surr: 1,2-Dichloroethane-d4	94.0	70-130	%Rec	1	8/2/2020 6:34:30 PM	54099
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	8/2/2020 6:34:30 PM	54099
Surr: Dibromofluoromethane	101	70-130	%Rec	1	8/2/2020 6:34:30 PM	54099
Surr: Toluene-d8	98.7	70-130	%Rec	1	8/2/2020 6:34:30 PM	54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-013

Collection Date: 7/29/2020 8:35:00 AM

Matrix: SOIL

Received Date: 7/31/2020 9:55:00 AM

Client Sample ID: S4-0-6"

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/4/2020 11:51:05 PM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/2/2020 7:03:58 PM	54099
Surr: BFB	104	70-130	%Rec	1	8/2/2020 7:03:58 PM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/6/2020 3:40:53 PM	54143
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/6/2020 3:40:53 PM	54143
Surr: DNOP	90.2	30.4-154	%Rec	1	8/6/2020 3:40:53 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	8/2/2020 7:03:58 PM	54099
Toluene	ND	0.049	mg/Kg	1	8/2/2020 7:03:58 PM	54099
Ethylbenzene	ND	0.049	mg/Kg	1	8/2/2020 7:03:58 PM	54099
Xylenes, Total	ND	0.097	mg/Kg	1	8/2/2020 7:03:58 PM	54099
Surr: 1,2-Dichloroethane-d4	94.7	70-130	%Rec	1	8/2/2020 7:03:58 PM	54099
Surr: 4-Bromofluorobenzene	92.1	70-130	%Rec	1	8/2/2020 7:03:58 PM	54099
Surr: Dibromofluoromethane	97.9	70-130	%Rec	1	8/2/2020 7:03:58 PM	54099
Surr: Toluene-d8	102	70-130	%Rec	1	8/2/2020 7:03:58 PM	54099

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-014

Client Sample ID: S4-1'

Collection Date: 7/29/2020 8:38:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	8/5/2020 12:03:29 AM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/2/2020 7:33:22 PM	54099
Surr: BFB	107	70-130	%Rec	1	8/2/2020 7:33:22 PM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/6/2020 3:50:44 PM	54143
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/6/2020 3:50:44 PM	54143
Surr: DNOP	87.5	30.4-154	%Rec	1	8/6/2020 3:50:44 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	8/2/2020 7:33:22 PM	54099
Toluene	ND	0.050	mg/Kg	1	8/2/2020 7:33:22 PM	54099
Ethylbenzene	ND	0.050	mg/Kg	1	8/2/2020 7:33:22 PM	54099
Xylenes, Total	ND	0.10	mg/Kg	1	8/2/2020 7:33:22 PM	54099
Surr: 1,2-Dichloroethane-d4	99.3	70-130	%Rec	1	8/2/2020 7:33:22 PM	54099
Surr: 4-Bromofluorobenzene	93.0	70-130	%Rec	1	8/2/2020 7:33:22 PM	54099
Surr: Dibromofluoromethane	101	70-130	%Rec	1	8/2/2020 7:33:22 PM	54099
Surr: Toluene-d8	101	70-130	%Rec	1	8/2/2020 7:33:22 PM	54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-015

Client Sample ID: S4-2'

Collection Date: 7/29/2020 8:41:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	8/5/2020 12:15:53 AM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/2/2020 8:02:46 PM	54099
Surr: BFB	104	70-130	%Rec	1	8/2/2020 8:02:46 PM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/6/2020 4:00:32 PM	54143
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/6/2020 4:00:32 PM	54143
Surr: DNOP	95.9	30.4-154	%Rec	1	8/6/2020 4:00:32 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST	•				Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	8/2/2020 8:02:46 PM	54099
Toluene	ND	0.049	mg/Kg	1	8/2/2020 8:02:46 PM	54099
Ethylbenzene	ND	0.049	mg/Kg	1	8/2/2020 8:02:46 PM	54099
Xylenes, Total	ND	0.097	mg/Kg	1	8/2/2020 8:02:46 PM	54099
Surr: 1,2-Dichloroethane-d4	93.3	70-130	%Rec	1	8/2/2020 8:02:46 PM	54099
Surr: 4-Bromofluorobenzene	93.0	70-130	%Rec	1	8/2/2020 8:02:46 PM	54099
Surr: Dibromofluoromethane	94.6	70-130	%Rec	1	8/2/2020 8:02:46 PM	54099
Surr: Toluene-d8	101	70-130	%Rec	1	8/2/2020 8:02:46 PM	54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-016

Matrix: SOIL

Collection Date: 7/29/2020 8:44:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S4-3'

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/5/2020 12:28:18 AM	54167
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/2/2020 8:32:23 PM	54099
Surr: BFB	103	70-130	%Rec	1	8/2/2020 8:32:23 PM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	8/6/2020 4:10:22 PM	54143
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/6/2020 4:10:22 PM	54143
Surr: DNOP	88.9	30.4-154	%Rec	1	8/6/2020 4:10:22 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIS	T				Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	8/2/2020 8:32:23 PM	54099
Toluene	ND	0.050	mg/Kg	1	8/2/2020 8:32:23 PM	54099
Ethylbenzene	ND	0.050	mg/Kg	1	8/2/2020 8:32:23 PM	54099
Xylenes, Total	ND	0.10	mg/Kg	1	8/2/2020 8:32:23 PM	54099
Surr: 1,2-Dichloroethane-d4	94.6	70-130	%Rec	1	8/2/2020 8:32:23 PM	54099
Surr: 4-Bromofluorobenzene	88.7	70-130	%Rec	1	8/2/2020 8:32:23 PM	54099
Surr: Dibromofluoromethane	99.0	70-130	%Rec	1	8/2/2020 8:32:23 PM	54099
Surr: Toluene-d8	101	70-130	%Rec	1	8/2/2020 8:32:23 PM	54099

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-017

Client Sample ID: S5-0-6"

Collection Date: 7/29/2020 8:47:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/5/2020 12:40:42 AM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/2/2020 9:01:59 PM	54099
Surr: BFB	107	70-130	%Rec	1	8/2/2020 9:01:59 PM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/6/2020 4:20:11 PM	54143
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/6/2020 4:20:11 PM	54143
Surr: DNOP	89.4	30.4-154	%Rec	1	8/6/2020 4:20:11 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/2/2020 9:01:59 PM	54099
Toluene	ND	0.049	mg/Kg	1	8/2/2020 9:01:59 PM	54099
Ethylbenzene	ND	0.049	mg/Kg	1	8/2/2020 9:01:59 PM	54099
Xylenes, Total	ND	0.098	mg/Kg	1	8/2/2020 9:01:59 PM	54099
Surr: 1,2-Dichloroethane-d4	92.5	70-130	%Rec	1	8/2/2020 9:01:59 PM	54099
Surr: 4-Bromofluorobenzene	90.0	70-130	%Rec	1	8/2/2020 9:01:59 PM	54099
Surr: Dibromofluoromethane	98.7	70-130	%Rec	1	8/2/2020 9:01:59 PM	54099
Surr: Toluene-d8	102	70-130	%Rec	1	8/2/2020 9:01:59 PM	54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-018

Client Sample ID: S5-1'

Collection Date: 7/29/2020 8:50:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	JMT
Chloride	ND	60	mg/Kg	20	8/5/2020 12:53:07 AM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/2/2020 9:31:37 PM	54099
Surr: BFB	102	70-130	%Rec	1	8/2/2020 9:31:37 PM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/6/2020 4:29:59 PM	54143
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/6/2020 4:29:59 PM	54143
Surr: DNOP	111	30.4-154	%Rec	1	8/6/2020 4:29:59 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	DJF
Benzene	ND	0.024	mg/Kg	1	8/2/2020 9:31:37 PM	54099
Toluene	ND	0.049	mg/Kg	1	8/2/2020 9:31:37 PM	54099
Ethylbenzene	ND	0.049	mg/Kg	1	8/2/2020 9:31:37 PM	54099
Xylenes, Total	ND	0.098	mg/Kg	1	8/2/2020 9:31:37 PM	54099
Surr: 1,2-Dichloroethane-d4	98.7	70-130	%Rec	1	8/2/2020 9:31:37 PM	54099
Surr: 4-Bromofluorobenzene	92.6	70-130	%Rec	1	8/2/2020 9:31:37 PM	54099
Surr: Dibromofluoromethane	102	70-130	%Rec	1	8/2/2020 9:31:37 PM	54099
Surr: Toluene-d8	96.3	70-130	%Rec	1	8/2/2020 9:31:37 PM	54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-019

Client Sample ID: S5-2'

Collection Date: 7/29/2020 8:53:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	8/5/2020 1:05:31 AM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/2/2020 10:01:13 PM	54099
Surr: BFB	105	70-130	%Rec	1	8/2/2020 10:01:13 PM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/6/2020 4:39:43 PM	54143
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/6/2020 4:39:43 PM	54143
Surr: DNOP	94.2	30.4-154	%Rec	1	8/6/2020 4:39:43 PM	54143
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	8/2/2020 10:01:13 PM	54099
Toluene	ND	0.050	mg/Kg	1	8/2/2020 10:01:13 PM	54099
Ethylbenzene	ND	0.050	mg/Kg	1	8/2/2020 10:01:13 PM	54099
Xylenes, Total	ND	0.10	mg/Kg	1	8/2/2020 10:01:13 PM	54099
Surr: 1,2-Dichloroethane-d4	95.5	70-130	%Rec	1	8/2/2020 10:01:13 PM	54099
Surr: 4-Bromofluorobenzene	92.3	70-130	%Rec	1	8/2/2020 10:01:13 PM	54099
Surr: Dibromofluoromethane	97.0	70-130	%Rec	1	8/2/2020 10:01:13 PM	54099
Surr: Toluene-d8	101	70-130	%Rec	1	8/2/2020 10:01:13 PM	54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-020

Client Sample ID: S5-3'

Collection Date: 7/29/2020 8:56:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/5/2020 1:17:56 AM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/3/2020 12:57:44 AM	54099
Surr: BFB	105	70-130	%Rec	1	8/3/2020 12:57:44 AM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/5/2020 9:17:11 AM	54144
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/5/2020 9:17:11 AM	54144
Surr: DNOP	112	30.4-154	%Rec	1	8/5/2020 9:17:11 AM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/3/2020 12:57:44 AM	54099
Toluene	ND	0.050	mg/Kg	1	8/3/2020 12:57:44 AM	54099
Ethylbenzene	ND	0.050	mg/Kg	1	8/3/2020 12:57:44 AM	54099
Xylenes, Total	ND	0.10	mg/Kg	1	8/3/2020 12:57:44 AM	54099
Surr: 1,2-Dichloroethane-d4	95.5	70-130	%Rec	1	8/3/2020 12:57:44 AM	54099
Surr: 4-Bromofluorobenzene	92.7	70-130	%Rec	1	8/3/2020 12:57:44 AM	54099
Surr: Dibromofluoromethane	98.4	70-130	%Rec	1	8/3/2020 12:57:44 AM	54099
Surr: Toluene-d8	101	70-130	%Rec	1	8/3/2020 12:57:44 AM	54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-021

Client Sample ID: S6-0-6"

Collection Date: 7/29/2020 8:59:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	80	60	mg/Kg	20	8/5/2020 1:55:09 AM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2020 1:27:16 AM	54099
Surr: BFB	105	70-130	%Rec	1	8/3/2020 1:27:16 AM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	8/5/2020 2:11:15 PM	54144
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/5/2020 2:11:15 PM	54144
Surr: DNOP	82.1	30.4-154	%Rec	1	8/5/2020 2:11:15 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/3/2020 1:27:16 AM	54099
Toluene	ND	0.049	mg/Kg	1	8/3/2020 1:27:16 AM	54099
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2020 1:27:16 AM	54099
Xylenes, Total	ND	0.099	mg/Kg	1	8/3/2020 1:27:16 AM	54099
Surr: 1,2-Dichloroethane-d4	95.4	70-130	%Rec	1	8/3/2020 1:27:16 AM	54099
Surr: 4-Bromofluorobenzene	91.6	70-130	%Rec	1	8/3/2020 1:27:16 AM	54099
Surr: Dibromofluoromethane	98.5	70-130	%Rec	1	8/3/2020 1:27:16 AM	54099
Surr: Toluene-d8	100	70-130	%Rec	1	8/3/2020 1:27:16 AM	54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-022

Client Sample ID: S7-0-6"

Collection Date: 7/29/2020 9:02:00 AM Received Date: 7/31/2020 9:55:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 5000 150 mg/Kg 50 8/5/2020 11:21:09 PM 54167 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: **DJF** Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 8/3/2020 1:56:39 AM 54099 Surr: BFB 100 70-130 %Rec 1 8/3/2020 1:56:39 AM 54099 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.4 mg/Kg 8/5/2020 2:35:08 PM 54144 Motor Oil Range Organics (MRO) ND 1 8/5/2020 2:35:08 PM 54144 47 mg/Kg Surr: DNOP 96.3 30.4-154 %Rec 8/5/2020 2:35:08 PM 54144 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: DJF ND 8/3/2020 1:56:39 AM 54099 Benzene 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 8/3/2020 1:56:39 AM 54099 Ethylbenzene ND 0.050 mg/Kg 1 8/3/2020 1:56:39 AM 54099 Xylenes, Total ND 0.099 mg/Kg 8/3/2020 1:56:39 AM 54099 Surr: 1,2-Dichloroethane-d4 94.1 70-130 %Rec 8/3/2020 1:56:39 AM 54099 Surr: 4-Bromofluorobenzene 92.3 70-130 %Rec 1 8/3/2020 1:56:39 AM 54099 Surr: Dibromofluoromethane 96.1 70-130 %Rec 1 8/3/2020 1:56:39 AM 54099 Surr: Toluene-d8 97.6 70-130 %Rec 8/3/2020 1:56:39 AM 54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-023

Client Sample ID: S7-1'

Collection Date: 7/29/2020 9:05:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	1200	60	mg/Kg	20	8/5/2020 2:19:58 AM	54167
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2020 2:26:01 AM	54099
Surr: BFB	104	70-130	%Rec	1	8/3/2020 2:26:01 AM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/5/2020 2:59:01 PM	54144
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/5/2020 2:59:01 PM	54144
Surr: DNOP	98.2	30.4-154	%Rec	1	8/5/2020 2:59:01 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	8/3/2020 2:26:01 AM	54099
Toluene	ND	0.049	mg/Kg	1	8/3/2020 2:26:01 AM	54099
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2020 2:26:01 AM	54099
Xylenes, Total	ND	0.097	mg/Kg	1	8/3/2020 2:26:01 AM	54099
Surr: 1,2-Dichloroethane-d4	97.0	70-130	%Rec	1	8/3/2020 2:26:01 AM	54099
Surr: 4-Bromofluorobenzene	89.1	70-130	%Rec	1	8/3/2020 2:26:01 AM	54099
Surr: Dibromofluoromethane	99.5	70-130	%Rec	1	8/3/2020 2:26:01 AM	54099
Surr: Toluene-d8	101	70-130	%Rec	1	8/3/2020 2:26:01 AM	54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-024

Matrix: SOIL

Collection Date: 7/29/2020 9:08:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S7-2'

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	390	60	mg/Kg	20	8/5/2020 12:58:35 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/3/2020 2:55:20 AM	54099
Surr: BFB	103	70-130	%Rec	1	8/3/2020 2:55:20 AM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/5/2020 3:22:51 PM	54144
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/5/2020 3:22:51 PM	54144
Surr: DNOP	99.1	30.4-154	%Rec	1	8/5/2020 3:22:51 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/3/2020 2:55:20 AM	54099
Toluene	ND	0.050	mg/Kg	1	8/3/2020 2:55:20 AM	54099
Ethylbenzene	ND	0.050	mg/Kg	1	8/3/2020 2:55:20 AM	54099
Xylenes, Total	ND	0.10	mg/Kg	1	8/3/2020 2:55:20 AM	54099
Surr: 1,2-Dichloroethane-d4	96.7	70-130	%Rec	1	8/3/2020 2:55:20 AM	54099
Surr: 4-Bromofluorobenzene	92.9	70-130	%Rec	1	8/3/2020 2:55:20 AM	54099
Surr: Dibromofluoromethane	102	70-130	%Rec	1	8/3/2020 2:55:20 AM	54099
Surr: Toluene-d8	102	70-130	%Rec	1	8/3/2020 2:55:20 AM	54099

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-025

Client Sample ID: S7-3'

Collection Date: 7/29/2020 9:11:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	240	60	mg/Kg	20	8/5/2020 1:35:35 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANGE	:				Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2020 3:24:42 AM	54099
Surr: BFB	103	70-130	%Rec	1	8/3/2020 3:24:42 AM	54099
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/5/2020 3:46:43 PM	54144
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/5/2020 3:46:43 PM	54144
Surr: DNOP	107	30.4-154	%Rec	1	8/5/2020 3:46:43 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIS	Г				Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/3/2020 3:24:42 AM	54099
Toluene	ND	0.049	mg/Kg	1	8/3/2020 3:24:42 AM	54099
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2020 3:24:42 AM	54099
Xylenes, Total	ND	0.099	mg/Kg	1	8/3/2020 3:24:42 AM	54099
Surr: 1,2-Dichloroethane-d4	99.5	70-130	%Rec	1	8/3/2020 3:24:42 AM	54099
Surr: 4-Bromofluorobenzene	92.2	70-130	%Rec	1	8/3/2020 3:24:42 AM	54099
Surr: Dibromofluoromethane	101	70-130	%Rec	1	8/3/2020 3:24:42 AM	54099
Surr: Toluene-d8	99.9	70-130	%Rec	1	8/3/2020 3:24:42 AM	54099

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-026

Matrix: SOIL

Collection Date: 7/29/2020 9:14:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S8-0-6"

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	8/5/2020 2:37:18 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/2/2020 11:24:03 PM	54102
Surr: BFB	101	70-130		%Rec	1	8/2/2020 11:24:03 PM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	CLP
Diesel Range Organics (DRO)	1300	96		mg/Kg	10	8/6/2020 8:58:02 AM	54144
Motor Oil Range Organics (MRO)	2300	480		mg/Kg	10	8/6/2020 8:58:02 AM	54144
Surr: DNOP	0	30.4-154	S	%Rec	10	8/6/2020 8:58:02 AM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	: DJF
Benzene	ND	0.025		mg/Kg	1	8/2/2020 11:24:03 PM	54102
Toluene	ND	0.050		mg/Kg	1	8/2/2020 11:24:03 PM	54102
Ethylbenzene	ND	0.050		mg/Kg	1	8/2/2020 11:24:03 PM	54102
Xylenes, Total	ND	0.10		mg/Kg	1	8/2/2020 11:24:03 PM	54102
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%Rec	1	8/2/2020 11:24:03 PM	54102
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	8/2/2020 11:24:03 PM	54102
Surr: Dibromofluoromethane	104	70-130		%Rec	1	8/2/2020 11:24:03 PM	54102
Surr: Toluene-d8	97.3	70-130		%Rec	1	8/2/2020 11:24:03 PM	54102

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-027

Client Sample ID: S8-1'

Collection Date: 7/29/2020 9:17:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	59		mg/Kg	20	8/5/2020 2:49:39 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/3/2020 2:43:17 AM	54102
Surr: BFB	101	70-130		%Rec	1	8/3/2020 2:43:17 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	CLP
Diesel Range Organics (DRO)	660	94		mg/Kg	10	8/6/2020 9:21:54 AM	54144
Motor Oil Range Organics (MRO)	1200	470		mg/Kg	10	8/6/2020 9:21:54 AM	54144
Surr: DNOP	0	30.4-154	S	%Rec	10	8/6/2020 9:21:54 AM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	DJF
Benzene	ND	0.025		mg/Kg	1	8/3/2020 2:43:17 AM	54102
Toluene	ND	0.050		mg/Kg	1	8/3/2020 2:43:17 AM	54102
Ethylbenzene	ND	0.050		mg/Kg	1	8/3/2020 2:43:17 AM	54102
Xylenes, Total	ND	0.099		mg/Kg	1	8/3/2020 2:43:17 AM	54102
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%Rec	1	8/3/2020 2:43:17 AM	54102
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	8/3/2020 2:43:17 AM	54102
Surr: Dibromofluoromethane	103	70-130		%Rec	1	8/3/2020 2:43:17 AM	54102
Surr: Toluene-d8	93.6	70-130		%Rec	1	8/3/2020 2:43:17 AM	54102

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-028

Matrix: SOIL

Collection Date: 7/29/2020 9:20:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S8-2'

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	8/5/2020 3:02:00 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANGE	.				Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/3/2020 4:08:39 AM	54102
Surr: BFB	97.9	70-130	%Rec	1	8/3/2020 4:08:39 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	15	8.7	mg/Kg	1	8/5/2020 5:22:19 PM	54144
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	8/5/2020 5:22:19 PM	54144
Surr: DNOP	111	30.4-154	%Rec	1	8/5/2020 5:22:19 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST	Т				Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	8/3/2020 4:08:39 AM	54102
Toluene	ND	0.050	mg/Kg	1	8/3/2020 4:08:39 AM	54102
Ethylbenzene	ND	0.050	mg/Kg	1	8/3/2020 4:08:39 AM	54102
Xylenes, Total	ND	0.10	mg/Kg	1	8/3/2020 4:08:39 AM	54102
Surr: 1,2-Dichloroethane-d4	96.3	70-130	%Rec	1	8/3/2020 4:08:39 AM	54102
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	8/3/2020 4:08:39 AM	54102
Surr: Dibromofluoromethane	107	70-130	%Rec	1	8/3/2020 4:08:39 AM	54102
Surr: Toluene-d8	95.7	70-130	%Rec	1	8/3/2020 4:08:39 AM	54102

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-029

Client Sample ID: S8-3'

Collection Date: 7/29/2020 9:23:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	8/5/2020 3:14:20 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2020 4:37:06 AM	54102
Surr: BFB	101	70-130	%Rec	1	8/3/2020 4:37:06 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	55	9.6	mg/Kg	1	8/6/2020 9:45:43 AM	54144
Motor Oil Range Organics (MRO)	96	48	mg/Kg	1	8/6/2020 9:45:43 AM	54144
Surr: DNOP	96.7	30.4-154	%Rec	1	8/6/2020 9:45:43 AM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/3/2020 4:37:06 AM	54102
Toluene	ND	0.049	mg/Kg	1	8/3/2020 4:37:06 AM	54102
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2020 4:37:06 AM	54102
Xylenes, Total	ND	0.098	mg/Kg	1	8/3/2020 4:37:06 AM	54102
Surr: 1,2-Dichloroethane-d4	97.0	70-130	%Rec	1	8/3/2020 4:37:06 AM	54102
Surr: 4-Bromofluorobenzene	99.1	70-130	%Rec	1	8/3/2020 4:37:06 AM	54102
Surr: Dibromofluoromethane	106	70-130	%Rec	1	8/3/2020 4:37:06 AM	54102
Surr: Toluene-d8	97.0	70-130	%Rec	1	8/3/2020 4:37:06 AM	54102

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-030

Matrix: SOIL

Collection Date: 7/29/2020 9:26:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S9-0-6"

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	8/5/2020 3:26:41 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2020 5:05:35 AM	54102
Surr: BFB	103	70-130	%Rec	1	8/3/2020 5:05:35 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/5/2020 6:10:24 PM	54144
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/5/2020 6:10:24 PM	54144
Surr: DNOP	89.5	30.4-154	%Rec	1	8/5/2020 6:10:24 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	8/3/2020 5:05:35 AM	54102
Toluene	ND	0.049	mg/Kg	1	8/3/2020 5:05:35 AM	54102
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2020 5:05:35 AM	54102
Xylenes, Total	ND	0.098	mg/Kg	1	8/3/2020 5:05:35 AM	54102
Surr: 1,2-Dichloroethane-d4	96.9	70-130	%Rec	1	8/3/2020 5:05:35 AM	54102
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	8/3/2020 5:05:35 AM	54102
Surr: Dibromofluoromethane	102	70-130	%Rec	1	8/3/2020 5:05:35 AM	54102
Surr: Toluene-d8	101	70-130	%Rec	1	8/3/2020 5:05:35 AM	54102

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-031

Client Sample ID: S9-1'

Collection Date: 7/29/2020 9:29:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	8/5/2020 3:39:02 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/3/2020 5:34:14 AM	54102
Surr: BFB	102	70-130	%Rec	1	8/3/2020 5:34:14 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/5/2020 6:34:25 PM	54144
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/5/2020 6:34:25 PM	54144
Surr: DNOP	107	30.4-154	%Rec	1	8/5/2020 6:34:25 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	8/3/2020 5:34:14 AM	54102
Toluene	ND	0.050	mg/Kg	1	8/3/2020 5:34:14 AM	54102
Ethylbenzene	ND	0.050	mg/Kg	1	8/3/2020 5:34:14 AM	54102
Xylenes, Total	ND	0.099	mg/Kg	1	8/3/2020 5:34:14 AM	54102
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	8/3/2020 5:34:14 AM	54102
Surr: 4-Bromofluorobenzene	95.6	70-130	%Rec	1	8/3/2020 5:34:14 AM	54102
Surr: Dibromofluoromethane	112	70-130	%Rec	1	8/3/2020 5:34:14 AM	54102
Surr: Toluene-d8	101	70-130	%Rec	1	8/3/2020 5:34:14 AM	54102

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-032

Client Sample ID: S9-2'

Collection Date: 7/29/2020 9:32:00 AM Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	8/5/2020 3:51:23 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2020 6:02:44 AM	54102
Surr: BFB	101	70-130	%Rec	1	8/3/2020 6:02:44 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/5/2020 6:58:25 PM	54144
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	8/5/2020 6:58:25 PM	54144
Surr: DNOP	97.4	30.4-154	%Rec	1	8/5/2020 6:58:25 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	8/3/2020 6:02:44 AM	54102
Toluene	ND	0.049	mg/Kg	1	8/3/2020 6:02:44 AM	54102
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2020 6:02:44 AM	54102
Xylenes, Total	ND	0.098	mg/Kg	1	8/3/2020 6:02:44 AM	54102
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	8/3/2020 6:02:44 AM	54102
Surr: 4-Bromofluorobenzene	97.5	70-130	%Rec	1	8/3/2020 6:02:44 AM	54102
Surr: Dibromofluoromethane	107	70-130	%Rec	1	8/3/2020 6:02:44 AM	54102
Surr: Toluene-d8	98.9	70-130	%Rec	1	8/3/2020 6:02:44 AM	54102

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-033

Matrix: SOIL

Collection Date: 7/29/2020 9:35:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S9-3'

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	8/5/2020 4:03:43 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2020 6:31:16 AM	54102
Surr: BFB	103	70-130	%Rec	1	8/3/2020 6:31:16 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/5/2020 7:22:27 PM	54144
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/5/2020 7:22:27 PM	54144
Surr: DNOP	98.8	30.4-154	%Rec	1	8/5/2020 7:22:27 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/3/2020 6:31:16 AM	54102
Toluene	ND	0.049	mg/Kg	1	8/3/2020 6:31:16 AM	54102
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2020 6:31:16 AM	54102
Xylenes, Total	ND	0.099	mg/Kg	1	8/3/2020 6:31:16 AM	54102
Surr: 1,2-Dichloroethane-d4	97.3	70-130	%Rec	1	8/3/2020 6:31:16 AM	54102
Surr: 4-Bromofluorobenzene	99.1	70-130	%Rec	1	8/3/2020 6:31:16 AM	54102
Surr: Dibromofluoromethane	105	70-130	%Rec	1	8/3/2020 6:31:16 AM	54102
Surr: Toluene-d8	102	70-130	%Rec	1	8/3/2020 6:31:16 AM	54102

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-034

Client Sample ID: S10-0-6"

Collection Date: 7/29/2020 9:38:00 AM Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	140	60	mg/Kg	20	8/5/2020 4:16:04 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/3/2020 6:59:49 AM	54102
Surr: BFB	96.6	70-130	%Rec	1	8/3/2020 6:59:49 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/5/2020 7:46:23 PM	54144
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/5/2020 7:46:23 PM	54144
Surr: DNOP	94.3	30.4-154	%Rec	1	8/5/2020 7:46:23 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/3/2020 6:59:49 AM	54102
Toluene	ND	0.050	mg/Kg	1	8/3/2020 6:59:49 AM	54102
Ethylbenzene	ND	0.050	mg/Kg	1	8/3/2020 6:59:49 AM	54102
Xylenes, Total	ND	0.099	mg/Kg	1	8/3/2020 6:59:49 AM	54102
Surr: 1,2-Dichloroethane-d4	94.6	70-130	%Rec	1	8/3/2020 6:59:49 AM	54102
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	1	8/3/2020 6:59:49 AM	54102
Surr: Dibromofluoromethane	103	70-130	%Rec	1	8/3/2020 6:59:49 AM	54102
Surr: Toluene-d8	95.0	70-130	%Rec	1	8/3/2020 6:59:49 AM	54102

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-035

Client Sample ID: S10-1'

Collection Date: 7/29/2020 9:41:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	8/5/2020 4:28:25 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/3/2020 7:28:24 AM	54102
Surr: BFB	103	70-130	%Rec	1	8/3/2020 7:28:24 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/5/2020 8:10:19 PM	54144
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/5/2020 8:10:19 PM	54144
Surr: DNOP	102	30.4-154	%Rec	1	8/5/2020 8:10:19 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	8/3/2020 7:28:24 AM	54102
Toluene	ND	0.050	mg/Kg	1	8/3/2020 7:28:24 AM	54102
Ethylbenzene	ND	0.050	mg/Kg	1	8/3/2020 7:28:24 AM	54102
Xylenes, Total	ND	0.10	mg/Kg	1	8/3/2020 7:28:24 AM	54102
Surr: 1,2-Dichloroethane-d4	98.8	70-130	%Rec	1	8/3/2020 7:28:24 AM	54102
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/3/2020 7:28:24 AM	54102
Surr: Dibromofluoromethane	101	70-130	%Rec	1	8/3/2020 7:28:24 AM	54102
Surr: Toluene-d8	96.9	70-130	%Rec	1	8/3/2020 7:28:24 AM	54102

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-036

Matrix: SOIL

Collection Date: 7/29/2020 9:44:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S10-2'

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	66	60	mg/Kg	20	8/5/2020 5:05:26 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/3/2020 7:56:53 AM	54102
Surr: BFB	97.6	70-130	%Rec	1	8/3/2020 7:56:53 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	23	9.3	mg/Kg	1	8/5/2020 8:34:11 PM	54144
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/5/2020 8:34:11 PM	54144
Surr: DNOP	103	30.4-154	%Rec	1	8/5/2020 8:34:11 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst:	DJF
Benzene	ND	0.025	mg/Kg	1	8/3/2020 7:56:53 AM	54102
Toluene	ND	0.050	mg/Kg	1	8/3/2020 7:56:53 AM	54102
Ethylbenzene	ND	0.050	mg/Kg	1	8/3/2020 7:56:53 AM	54102
Xylenes, Total	ND	0.10	mg/Kg	1	8/3/2020 7:56:53 AM	54102
Surr: 1,2-Dichloroethane-d4	96.3	70-130	%Rec	1	8/3/2020 7:56:53 AM	54102
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	8/3/2020 7:56:53 AM	54102
Surr: Dibromofluoromethane	109	70-130	%Rec	1	8/3/2020 7:56:53 AM	54102
Surr: Toluene-d8	94.7	70-130	%Rec	1	8/3/2020 7:56:53 AM	54102

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-037

Matrix: SOIL

Collection Date: 7/29/2020 9:47:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S10-3'

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	60	mg/Kg	20	8/5/2020 5:17:47 PM	54179
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/3/2020 8:25:33 AM	54102
Surr: BFB	101	70-130	%Rec	1	8/3/2020 8:25:33 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	8/5/2020 8:58:05 PM	54144
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/5/2020 8:58:05 PM	54144
Surr: DNOP	100	30.4-154	%Rec	1	8/5/2020 8:58:05 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIS	ST .				Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	8/3/2020 8:25:33 AM	54102
Toluene	ND	0.048	mg/Kg	1	8/3/2020 8:25:33 AM	54102
Ethylbenzene	ND	0.048	mg/Kg	1	8/3/2020 8:25:33 AM	54102
Xylenes, Total	ND	0.097	mg/Kg	1	8/3/2020 8:25:33 AM	54102
Surr: 1,2-Dichloroethane-d4	98.8	70-130	%Rec	1	8/3/2020 8:25:33 AM	54102
Surr: 4-Bromofluorobenzene	99.4	70-130	%Rec	1	8/3/2020 8:25:33 AM	54102
Surr: Dibromofluoromethane	102	70-130	%Rec	1	8/3/2020 8:25:33 AM	54102
Surr: Toluene-d8	97.2	70-130	%Rec	1	8/3/2020 8:25:33 AM	54102

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-038

Client Sample ID: S11-0-6"

Collection Date: 7/29/2020 9:50:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	61		mg/Kg	20	8/5/2020 5:54:50 PM	54193
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	DJF
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	8/3/2020 8:54:08 AM	54102
Surr: BFB	99.1	70-130	D	%Rec	5	8/3/2020 8:54:08 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	CLP
Diesel Range Organics (DRO)	17000	940		mg/Kg	100	8/5/2020 9:21:56 PM	54144
Motor Oil Range Organics (MRO)	9100	4700		mg/Kg	100	8/5/2020 9:21:56 PM	54144
Surr: DNOP	0	30.4-154	S	%Rec	100	8/5/2020 9:21:56 PM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	DJF
Benzene	ND	0.12	D	mg/Kg	5	8/3/2020 8:54:08 AM	54102
Toluene	ND	0.24	D	mg/Kg	5	8/3/2020 8:54:08 AM	54102
Ethylbenzene	ND	0.24	D	mg/Kg	5	8/3/2020 8:54:08 AM	54102
Xylenes, Total	ND	0.47	D	mg/Kg	5	8/3/2020 8:54:08 AM	54102
Surr: 1,2-Dichloroethane-d4	101	70-130	D	%Rec	5	8/3/2020 8:54:08 AM	54102
Surr: 4-Bromofluorobenzene	63.0	70-130	SD	%Rec	5	8/3/2020 8:54:08 AM	54102
Surr: Dibromofluoromethane	105	70-130	D	%Rec	5	8/3/2020 8:54:08 AM	54102
Surr: Toluene-d8	95.8	70-130	D	%Rec	5	8/3/2020 8:54:08 AM	54102

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-039

Matrix: SOIL

Collection Date: 7/29/2020 9:53:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S11-1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	ND	61		mg/Kg	20	8/5/2020 6:07:11 PM	54193
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/4/2020 2:23:02 AM	54102
Surr: BFB	99.2	70-130		%Rec	1	8/4/2020 2:23:02 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	CLP
Diesel Range Organics (DRO)	940	93		mg/Kg	10	8/6/2020 10:09:32 AM	54144
Motor Oil Range Organics (MRO)	980	460		mg/Kg	10	8/6/2020 10:09:32 AM	54144
Surr: DNOP	0	30.4-154	S	%Rec	10	8/6/2020 10:09:32 AM	54144
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	JMR
Benzene	ND	0.025		mg/Kg	1	8/4/2020 2:23:02 AM	54102
Toluene	ND	0.050		mg/Kg	1	8/4/2020 2:23:02 AM	54102
Ethylbenzene	ND	0.050		mg/Kg	1	8/4/2020 2:23:02 AM	54102
Xylenes, Total	ND	0.099		mg/Kg	1	8/4/2020 2:23:02 AM	54102
Surr: 1,2-Dichloroethane-d4	97.2	70-130		%Rec	1	8/4/2020 2:23:02 AM	54102
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	8/4/2020 2:23:02 AM	54102
Surr: Dibromofluoromethane	99.2	70-130		%Rec	1	8/4/2020 2:23:02 AM	54102
Surr: Toluene-d8	96.7	70-130		%Rec	1	8/4/2020 2:23:02 AM	54102

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-040

Client Sample ID: S11-2'

Collection Date: 7/29/2020 9:56:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	61		mg/Kg	20	8/5/2020 6:19:32 PM	54193
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/4/2020 2:51:31 AM	54102
Surr: BFB	101	70-130		%Rec	1	8/4/2020 2:51:31 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	4300	92		mg/Kg	10	8/6/2020 9:57:59 AM	54150
Motor Oil Range Organics (MRO)	3200	460		mg/Kg	10	8/6/2020 9:57:59 AM	54150
Surr: DNOP	0	30.4-154	S	%Rec	10	8/6/2020 9:57:59 AM	54150
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	JMR
Benzene	ND	0.025		mg/Kg	1	8/4/2020 2:51:31 AM	54102
Toluene	ND	0.049		mg/Kg	1	8/4/2020 2:51:31 AM	54102
Ethylbenzene	ND	0.049		mg/Kg	1	8/4/2020 2:51:31 AM	54102
Xylenes, Total	ND	0.098		mg/Kg	1	8/4/2020 2:51:31 AM	54102
Surr: 1,2-Dichloroethane-d4	96.7	70-130		%Rec	1	8/4/2020 2:51:31 AM	54102
Surr: 4-Bromofluorobenzene	75.0	70-130		%Rec	1	8/4/2020 2:51:31 AM	54102
Surr: Dibromofluoromethane	102	70-130		%Rec	1	8/4/2020 2:51:31 AM	54102
Surr: Toluene-d8	99.5	70-130		%Rec	1	8/4/2020 2:51:31 AM	54102

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-041

Client Sample ID: S11-3'

Collection Date: 7/29/2020 9:59:00 AM

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	8/5/2020 6:31:52 PM	54193
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/4/2020 3:20:12 AM	54102
Surr: BFB	98.5	70-130	%Rec	1	8/4/2020 3:20:12 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	250	9.7	mg/Kg	1	8/6/2020 10:07:30 AM	54150
Motor Oil Range Organics (MRO)	270	48	mg/Kg	1	8/6/2020 10:07:30 AM	54150
Surr: DNOP	129	30.4-154	%Rec	1	8/6/2020 10:07:30 AM	54150
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	8/4/2020 3:20:12 AM	54102
Toluene	ND	0.050	mg/Kg	1	8/4/2020 3:20:12 AM	54102
Ethylbenzene	ND	0.050	mg/Kg	1	8/4/2020 3:20:12 AM	54102
Xylenes, Total	ND	0.099	mg/Kg	1	8/4/2020 3:20:12 AM	54102
Surr: 1,2-Dichloroethane-d4	99.2	70-130	%Rec	1	8/4/2020 3:20:12 AM	54102
Surr: 4-Bromofluorobenzene	94.0	70-130	%Rec	1	8/4/2020 3:20:12 AM	54102
Surr: Dibromofluoromethane	112	70-130	%Rec	1	8/4/2020 3:20:12 AM	54102
Surr: Toluene-d8	97.6	70-130	%Rec	1	8/4/2020 3:20:12 AM	54102

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-042

Matrix: SOIL

Collection Date: 7/29/2020 10:02:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S12-0-6"

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	100	60	mg/Kg	20	8/5/2020 6:44:12 PM	54193
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/4/2020 3:48:48 AM	54102
Surr: BFB	102	70-130	%Rec	1	8/4/2020 3:48:48 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/6/2020 10:17:02 AM	54150
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/6/2020 10:17:02 AM	54150
Surr: DNOP	92.6	30.4-154	%Rec	1	8/6/2020 10:17:02 AM	54150
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	8/4/2020 3:48:48 AM	54102
Toluene	ND	0.049	mg/Kg	1	8/4/2020 3:48:48 AM	54102
Ethylbenzene	ND	0.049	mg/Kg	1	8/4/2020 3:48:48 AM	54102
Xylenes, Total	ND	0.098	mg/Kg	1	8/4/2020 3:48:48 AM	54102
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	8/4/2020 3:48:48 AM	54102
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/4/2020 3:48:48 AM	54102
Surr: Dibromofluoromethane	106	70-130	%Rec	1	8/4/2020 3:48:48 AM	54102
Surr: Toluene-d8	99.4	70-130	%Rec	1	8/4/2020 3:48:48 AM	54102

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-043

Matrix: SOIL

Collection Date: 7/29/2020 10:05:00 AM **Received Date:** 7/31/2020 9:55:00 AM

Client Sample ID: S12-1'

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	8/5/2020 6:56:33 PM	54193
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/4/2020 4:17:21 AM	54102
Surr: BFB	104	70-130	%Rec	1	8/4/2020 4:17:21 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/6/2020 10:26:34 AM	54150
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/6/2020 10:26:34 AM	54150
Surr: DNOP	95.1	30.4-154	%Rec	1	8/6/2020 10:26:34 AM	54150
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	JMR
Benzene	ND	0.025	mg/Kg	1	8/4/2020 4:17:21 AM	54102
Toluene	ND	0.049	mg/Kg	1	8/4/2020 4:17:21 AM	54102
Ethylbenzene	ND	0.049	mg/Kg	1	8/4/2020 4:17:21 AM	54102
Xylenes, Total	ND	0.099	mg/Kg	1	8/4/2020 4:17:21 AM	54102
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	8/4/2020 4:17:21 AM	54102
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/4/2020 4:17:21 AM	54102
Surr: Dibromofluoromethane	108	70-130	%Rec	1	8/4/2020 4:17:21 AM	54102
Surr: Toluene-d8	99.2	70-130	%Rec	1	8/4/2020 4:17:21 AM	54102

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-044

Collection Date: 7/29/2020 10:08:00 AM

Client Sample ID: S12-2'

Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	8/5/2020 7:33:34 PM	54193
EPA METHOD 8015D MOD: GASOLINE RANGE	.				Analyst:	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/4/2020 4:45:50 AM	54102
Surr: BFB	101	70-130	%Rec	1	8/4/2020 4:45:50 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/6/2020 10:36:09 AM	54150
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/6/2020 10:36:09 AM	54150
Surr: DNOP	104	30.4-154	%Rec	1	8/6/2020 10:36:09 AM	54150
EPA METHOD 8260B: VOLATILES SHORT LIST	Т				Analyst:	JMR
Benzene	ND	0.025	mg/Kg	1	8/4/2020 4:45:50 AM	54102
Toluene	ND	0.049	mg/Kg	1	8/4/2020 4:45:50 AM	54102
Ethylbenzene	ND	0.049	mg/Kg	1	8/4/2020 4:45:50 AM	54102
Xylenes, Total	ND	0.098	mg/Kg	1	8/4/2020 4:45:50 AM	54102
Surr: 1,2-Dichloroethane-d4	97.7	70-130	%Rec	1	8/4/2020 4:45:50 AM	54102
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	8/4/2020 4:45:50 AM	54102
Surr: Dibromofluoromethane	105	70-130	%Rec	1	8/4/2020 4:45:50 AM	54102
Surr: Toluene-d8	99.6	70-130	%Rec	1	8/4/2020 4:45:50 AM	54102

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Lab ID: 2007F82-045

Client Sample ID: S12-3'

Collection Date: 7/29/2020 10:11:00 AM Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	8/5/2020 8:10:37 PM	54193
EPA METHOD 8015D MOD: GASOLINE RANGI	≣				Analyst:	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/4/2020 5:14:29 AM	54102
Surr: BFB	96.3	70-130	%Rec	1	8/4/2020 5:14:29 AM	54102
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	8/6/2020 10:45:44 AM	54150
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/6/2020 10:45:44 AM	54150
Surr: DNOP	119	30.4-154	%Rec	1	8/6/2020 10:45:44 AM	54150
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst:	JMR
Benzene	ND	0.024	mg/Kg	1	8/4/2020 5:14:29 AM	54102
Toluene	ND	0.049	mg/Kg	1	8/4/2020 5:14:29 AM	54102
Ethylbenzene	ND	0.049	mg/Kg	1	8/4/2020 5:14:29 AM	54102
Xylenes, Total	ND	0.098	mg/Kg	1	8/4/2020 5:14:29 AM	54102
Surr: 1,2-Dichloroethane-d4	96.7	70-130	%Rec	1	8/4/2020 5:14:29 AM	54102
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	8/4/2020 5:14:29 AM	54102
Surr: Dibromofluoromethane	103	70-130	%Rec	1	8/4/2020 5:14:29 AM	54102
Surr: Toluene-d8	98.6	70-130	%Rec	1	8/4/2020 5:14:29 AM	54102

Matrix: SOIL

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007F82**

11-Aug-20

Client: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Sample ID: MB-54167 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54167 RunNo: 70830

Prep Date: 8/4/2020 Analysis Date: 8/4/2020 SeqNo: 2466185 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-54167 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54167 RunNo: 70830

Prep Date: **8/4/2020** Analysis Date: **8/4/2020** SeqNo: **2466186** Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.0 90 110

Sample ID: MB-54162 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54162 RunNo: 70833

Prep Date: **8/4/2020** Analysis Date: **8/4/2020** SeqNo: **2466432** Units: **mg/Kg**

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

Chloride ND 1.5

Sample ID: LCS-54162 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54162 RunNo: 70833

Prep Date: 8/4/2020 Analysis Date: 8/4/2020 SeqNo: 2466433 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.2 90 110

Sample ID: MB-54179 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54179 RunNo: 70844

Prep Date: 8/5/2020 Analysis Date: 8/5/2020 SeqNo: 2467698 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-54179 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54179 RunNo: 70844

Prep Date: 8/5/2020 Analysis Date: 8/5/2020 SeqNo: 2467699 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007F82**

11-Aug-20

Client: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Sample ID: MB-54193 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54193 RunNo: 70844

Prep Date: 8/5/2020 Analysis Date: 8/5/2020 SeqNo: 2467763 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-54193 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54193 RunNo: 70844

Prep Date: 8/5/2020 Analysis Date: 8/5/2020 SeqNo: 2467765 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 8/5/2020

PQL

10

Result

50

4.9

WO#: 2007F82

11-Aug-20

Client: Pima Environmental Services LLC **Project:** Hackberry 18 Fed 2 Battery

Sample ID: MB-54144 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 54144 RunNo: 70836 Prep Date: 8/4/2020 Analysis Date: 8/5/2020 SeqNo: 2466547 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.4 10.00 94.4 30.4 154 Sample ID: LCS-54144 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS RunNo: 70836 Batch ID: 54144 Prep Date: 8/4/2020 Analysis Date: 8/5/2020 SeqNo: 2466548 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 70 51 50.00 103 130 Surr: DNOP 4.8 5.000 95.1 30.4 154 Sample ID: 2007F82-020AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: \$5-3' Batch ID: 54144 RunNo: 70836

Sample ID: 2007F82-020AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: S5-3['] Batch ID: 54144 RunNo: 70836 Prep Date: 8/4/2020 Analysis Date: 8/5/2020 SeqNo: 2466801 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Diesel Range Organics (DRO) 53 9.2 46.08 0 115 47.4 136 6.55 43.4 Surr: DNOP 4.8 4.608 104 30.4 154 0 0

n

SPK value SPK Ref Val

50.30

5.030

SeqNo: 2466550

LowLimit

47.4

30.4

%REC

99.1

97.3

Units: mg/Kg

136

154

%RPD

RPDLimit

Qual

HighLimit

Sample ID: MB-54143 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 54143 RunNo: 70836 Prep Date: 8/4/2020 Analysis Date: 8/6/2020 SeqNo: 2467336 Units: mg/Kg SPK value SPK Ref Val %REC Result PQL HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 11 10.00 109 30.4 154

Qualifiers:

Prep Date:

Surr: DNOP

8/4/2020

Diesel Range Organics (DRO)

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007F82**

11-Aug-20

Client: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Sample ID: LCS-54143	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	ID: 54 ′	143	R	unNo: 7 0	0836				
Prep Date: 8/4/2020	Analysis Da	ate: 8/ 0	6/2020	S	eqNo: 2	467342	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	111	70	130			
Surr: DNOP	5.1		5.000		103	30.4	154			

Sample ID: LCS-54150	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	1D: 54	150	F	RunNo: 70	0894				
Prep Date: 8/4/2020	Analysis D	ate: 8/	6/2020	S	SeqNo: 24	469094	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.9	70	130			
Surr: DNOP	4.3		5.000		86.3	30.4	154			

Sample ID: MB-54150	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batcl	n ID: 54	150	F	RunNo: 7	0894				
Prep Date: 8/4/2020	Analysis D	oate: 8/	6/2020	\$	SeqNo: 2	469097	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	30.4	154			

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

0.49

WO#: **2007F82**

11-Aug-20

Client: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Sample ID: mb-54093	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batcl	h ID: 54 0	093	F	RunNo: 7	0774				
Prep Date: 7/31/2020	Analysis D	Date: 8/	1/2020	5	SeqNo: 2	462986	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		99.0	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.6	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		100	70	130			

98.2

70

130

0.5000

Sample ID: Ics-54093	Samp	Гуре: LC	:S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batc	h ID: 54 0	093	F	RunNo: 7	0774				
Prep Date: 7/31/2020	Analysis [Date: 8/	1/2020	S	SeqNo: 2	462987	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.4	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	105	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.2	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.2	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.6	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			

Sample ID: mb-54099	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batcl	n ID: 54 0	099	F	RunNo: 7	0781				
Prep Date: 7/31/2020	Analysis D	Date: 8/	2/2020	8	SeqNo: 2	463470	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.3	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.2	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.9	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Qualifiers:

Surr: Toluene-d8

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007F82**

11-Aug-20

Client: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Sample ID: Ics-54099	Sampl	ype: LC	S4	Tes	List					
Client ID: BatchQC	Batc	n ID: 54 0	099	F	RunNo: 70	0781				
Prep Date: 7/31/2020	Analysis D	Date: 8/ 2	2/2020	8	SeqNo: 24	463471	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	105	80	120			
Toluene	1.1	0.050	1.000	0	112	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.8	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.5	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.1	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID: 2007f82-006ams	Samp	Гуре: М5	64	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: S2-1'	Batc	h ID: 54 0	099	F	RunNo: 7	0781				
Prep Date: 7/31/2020	Analysis [Date: 8/	2/2020	5	SeqNo: 2	463473	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9862	0	99.7	71.1	115			
Toluene	1.1	0.049	0.9862	0	114	79.6	132			
Ethylbenzene	1.1	0.049	0.9862	0	114	83.8	134			
Xylenes, Total	3.4	0.099	2.959	0	113	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.45		0.4931		92.1	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.4931		91.0	70	130			
Surr: Dibromofluoromethane	0.47		0.4931		96.3	70	130			
Surr: Toluene-d8	0.50		0.4931		102	70	130			

Sample ID: 2007f82-006amsd	Samp	Гуре: МS	SD4	Tes	tCode: El	tiles Short	List			
Client ID: S2-1'	Batc	h ID: 54 0	099	F	RunNo: 7	0781				
Prep Date: 7/31/2020	Analysis [Date: 8/ 3	2/2020	9	SeqNo: 2	463474	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9747	0	103	71.1	115	2.42	20	
Toluene	1.1	0.049	0.9747	0	113	79.6	132	2.05	20	
Ethylbenzene	1.1	0.049	0.9747	0	114	83.8	134	1.39	20	
Xylenes, Total	3.3	0.097	2.924	0	112	82.4	132	2.44	20	
Surr: 1,2-Dichloroethane-d4	0.47		0.4873		96.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.45		0.4873		93.2	70	130	0	0	
Surr: Dibromofluoromethane	0.50		0.4873		103	70	130	0	0	
Surr: Toluene-d8	0.51		0.4873		106	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007F82**

11-Aug-20

Client: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Battery

Sample ID: Ics-54102	SampT	ype: LC	S4	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batcl	n ID: 54 ′	102	F	RunNo: 70	0783				
Prep Date: 7/31/2020	Analysis D	Date: 8/ 2	2/2020	S	SeqNo: 24	463620	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.1	80	120			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.1	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		107	70	130			
Surr: Toluene-d8	0.48		0.5000		96.2	70	130			

Sample ID: 2007f82-026ams	Samp	Гуре: М	64	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: \$8-0-6"	Batc	h ID: 54	102	F	RunNo: 70	0783				
Prep Date: 7/31/2020	Analysis [Date: 8/	2/2020	9	SeqNo: 2	463622	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	0.9950	0	97.5	71.1	115			
Toluene	1.0	0.050	0.9950	0	101	79.6	132			
Ethylbenzene	1.0	0.050	0.9950	0	101	83.8	134			
Xylenes, Total	3.1	0.10	2.985	0	105	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.50		0.4975		101	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.4975		98.8	70	130			
Surr: Dibromofluoromethane	0.54		0.4975		108	70	130			
Surr: Toluene-d8	0.49		0.4975		97.7	70	130			

Sample ID: 2007f82-026amsd	Samp1	Type: MS	SD4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: \$8-0-6 "	Batc	h ID: 54 ′	102	F	RunNo: 7 0	0783				
Prep Date: 7/31/2020	Analysis [Date: 8/	3/2020	9	SeqNo: 24	463623	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	0.9843	0	93.3	71.1	115	5.50	20	
Toluene	0.96	0.049	0.9843	0	97.1	79.6	132	4.97	20	
Ethylbenzene	0.97	0.049	0.9843	0	98.8	83.8	134	3.71	20	
Xylenes, Total	3.0	0.098	2.953	0	101	82.4	132	5.21	20	
Surr: 1,2-Dichloroethane-d4	0.51		0.4921		103	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.49		0.4921		100	70	130	0	0	
Surr: Dibromofluoromethane	0.54		0.4921		109	70	130	0	0	
Surr: Toluene-d8	0.48		0.4921		96.7	70	130	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 52 of 54

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007F82 11-Aug-20

Client: Pima Environmental Services LLC **Project:** Hackberry 18 Fed 2 Battery

Sample ID: mb-54093 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 54093 RunNo: 70774

Prep Date: 7/31/2020 Analysis Date: 8/1/2020 SeqNo: 2463013 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 510 500.0 103 70 130

Sample ID: Ics-54093 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 54093 RunNo: 70774

Prep Date: 7/31/2020 Analysis Date: 8/1/2020 SeqNo: 2463014 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 89.0 70 130 Surr BFB 500 500.0 100 70 130

Sample ID: mb-54099 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 54099 RunNo: 70781

Prep Date: 7/31/2020 Analysis Date: 8/2/2020 SeqNo: 2463562 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB

520 500.0 105 70 130

Sample ID: Ics-54099 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 54099 RunNo: 70781

Prep Date: 7/31/2020 Analysis Date: 8/2/2020 SeqNo: 2463585 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 21 5.0 85.2 70 25.00 130

Surr: BFB 520 500.0 104 70 130

Sample ID: 2007f82-007ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: S2-2¹ Batch ID: 54099 RunNo: 70781

Prep Date: 7/31/2020 Analysis Date: 8/2/2020 SeqNo: 2463592 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 0 49.2 24.75 95.2 122 Surr: BFB 510 495.0 103 70 130

Sample ID: 2007f82-007amsd TestCode: EPA Method 8015D Mod: Gasoline Range SampType: MSD

Client ID: S2-2' Batch ID: 54099 RunNo: 70781

Prep Date: 7/31/2020 Analysis Date: 8/2/2020 SeqNo: 2463593 Units: mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 53 of 54

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007F82**

11-Aug-20

Client: Pima Environmental Services LLC
Project: Hackberry 18 Fed 2 Battery

Sample ID: 2007f82-007amsd	SampT	ype: MS	D .	Test	Range					
Client ID: S2-2'	Batch	n ID: 540	099	R	RunNo: 70	0781				
Prep Date: 7/31/2020	Analysis D	ate: 8/	2/2020	S	SeqNo: 24	463593	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.46	0	87.3	49.2	122	9.82	20	
Surr: BFB	500		489.2		103	70	130	0	0	
Sample ID: mb-54102	SampT	ype: ME	BLK	Test	tCode: E	PA Method	8015D Mod:	Gasoline l	Range	

Client ID: PBS	Batch	ID: 54	102	F	RunNo: 70	0783								
Prep Date: 7/31/2020	,			8	SeqNo: 24	463652	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO)	ND	5.0												
Surr: BFB	490		500.0		97.6	70	130							

Sample ID: Ics-54102	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline l	Range	
Client ID: LCSS	Batch	n ID: 54	102	R	RunNo: 70	0783				
Prep Date: 7/31/2020	Analysis D	ate: 8/	2/2020	S	SeqNo: 24	463653	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.3	70	130			_
Surr: BFB	490		500.0		98.6	70	130			

Sample ID: 2007f82-027ams	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: S8-1'	Batch	n ID: 54	102	F	RunNo: 7	0783				
Prep Date: 7/31/2020	Analysis D	ate: 8/	3/2020	S	SeqNo: 2	463656	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.65	0	89.2	49.2	122			
Surr: BFB	490		493.1		98.7	70	130			

Sample ID: 2007f82-027amsd	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D Mod:	Gasoline l	Range	
Client ID: S8-1'	Batch	ID: 54	102	F	RunNo: 70	0783				
Prep Date: 7/31/2020	Analysis D	ate: 8/	3/2020	S	SeqNo: 24	463657	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.9	49.2	122	5.52	20	
Surr: BFB	520		500.0		103	70	130	0	0	

Qualifiers:

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

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

Page 54 of 54



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuguerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Client Name: Pima Environmental Services LLC	Work Ord	ler Number: 200	7F82		RcptNo:	1
Received By: Emily Mocho	7/31/2020	9:55 A	iM	EM7/31	120	
Completed By: Emily Mocho	7/31/2020 1	0:31:04 AM				
Reviewed By: JR 7/31/20						
Chain of Custody						
1. Is Chain of Custody complete?		Yes	· 🔽	No 🗌	Not Present	
2. How was the sample delivered?		Cou	<u>ırier</u>			
<u>Log In</u>						
3. Was an attempt made to cool the samples?		Yes	✓	No 🗌	NA 🗌	
4. Were all samples received at a temperature	of >0° C to 6.	0°C Yes		No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes	V	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes	V	No 🗌		
7. Are samples (except VOA and ONG) proper	ly preserved?	Yes	✓	No 🗌		
8. Was preservative added to bottles?		Yes		No 🗹	NA 🗆	
9. Received at least 1 vial with headspace <1/4	" for AQ VOA?	? Yes		No 🗌	NA 🗹	
0. Were any sample containers received broke	n?	Yes		No 🗹	# of preserved	
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	✓	No 🗆	bottles checked for pH:	>12 unless noted)
2. Are matrices correctly identified on Chain of	Custody?	Yes	✓	No 🗌	Adjusted?	
3. Is it clear what analyses were requested?		Yes	✓	No 🗌		, ,
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	✓	No 🗆	Checked by:	r 7/31/2
pecial Handling (if applicable)						
15. Was client notified of all discrepancies with	this order?	Yes		No 🗆	NA 🗹	
Person Notified:		Date:		· · · · · · · · · · · · · · · · · · ·		
By Whom:		Via: eM	lail 🗌	Phone 🗌 Fax	☐ In Person	
Regarding:						
Client Instructions:		· · · · · ·				
17. <u>Cooler Information</u> Cooler No Temp ⁰C Condition S	eal Intact Se	al No Seal D	ate	Signed By	***************************************	
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email o	г Fax#:	Chri	sepimpoil. Com	Project N	/lana	ger:		T.	6					SO4			nt)					5:3
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	itation:	☐ Az Co	ompliance	Sampler On ice:		⊈ Yes	□ No	TMB	O/DR	/8082	I I	ır 827(NO_2		4)	^J reser	<i>ب</i>			ŀ	
	(Type)	U Other		# of Coo	700 7 7 7	 St. Mitarber Zazerien, ascherita da. 		BE/	(GR(ides)d 5(10 0	itals	Ō,	_	-\0	l) ш					
				Cooler T			.8-0.1-3.7 (°C)	1 -	I = I	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	CI, F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Colifor	chlorid				
Date	Time	Matrix	Sample Name	Containe Type and		Preservative Type	HEAL No. 2007 F82	BTEX	H H	8081	EDB	PAH	RCR	CI, F	8260	8270	Total	100			\perp	
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	0809		51-31				-004															
	0841		52-0-6"				005															
	0814		52-11				004															
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				Container	Prese	ervative	HEAL No.	BTEX / MTBE	89.	11 Pe	B (N	PAHs by 8310	RCRA 8 Metals	т, П	8260 (VOA)	S) 0.	<u>ğ</u>	ણ પૃ				
Date	Time	Matrix	Sample Name	Type and	# Type		ing property of the second of	E	ם	808	回	PA	RC	ਹੱ	826	827	ĕ	<u>(</u>)				
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nolaci				Subcontracted to other accredited laboratories. This serves as notice of this poss					ibilib	Δηνει	ıh-con	tracto	d dete	urill bo	close	ly note	ted or	the er	nalution	Irenart		of 1.

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Chain-of-Custody Record Client: Pima Environmental Mailing Address: 1601 N. Turner Ste 5 Hobbs, Nm 88240 Phone #: 575-1631-16977	Turn-Around Time: Standard Rush Project Name: HACKberry 8 Fed 2 Battery Project #:	HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request		
email or Fax#: Chris@pimeoil.com QA/QC Package: Standard	Sampler: On Ice: Yes No	BTEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHS by 8310 or 8270SIMS CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) Total Coliform (Present/Absent)		
Date Time Matrix Sample Name	# of Coolers: Cooler Temp(including cr): 3.8-0-1=3-7 (°C) Container Preservative HEAL No. Type and # Type GIASS ICE 037	BTEX / MTBE / TM TPH:8015D(GRO / D 8081 Pesticides/808 EDB (Method 504.1) PAHS by 8310 or 82 RCRA 8 Metals CI, F, Br, NO ₃ , NO ₃ 8260 (VOA) 8260 (VOA) Total Coliform (Prese Ch lo r d l		
1 6950 S11-0-6" 1 0953 S11-1' 1 0956 S11-2' 1 0959 S11-3'	039			
1002 S12-0-6" 1005 S12-1" 1008 S12-2" 1011 S12-3"	042 043 044 045			
Date: Time: Relinquished by:	Received by: Via: Date Time	Remarks: Bill to Devon		
Date: Time: Relinquished by 70 90 1900 Cummy	Received by: Via: Date Time Bill to Devon Courrier 7/31/20 9:55 (be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.)			



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

April 09, 2021

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

FAX

RE: Hackberry 18 Fed 2 Batt OrderNo.: 2104164

Dear Tom Bynum:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/6/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-8-2ft Bottom

Project: Hackberry 18 Fed 2 Batt Collection Date: 4/1/2021 8:30:00 AM

Lab ID: 2104164-001 **Matrix:** SOIL **Received Date:** 4/6/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR				Analyst: mb	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/7/2021 2:57:03 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/7/2021 2:57:03 PM
Surr: DNOP	100	70-130	%Rec	1	4/7/2021 2:57:03 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/8/2021 7:01:33 PM
Surr: BFB	95.0	70-130	%Rec	1	4/8/2021 7:01:33 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	4/8/2021 7:01:33 PM
Toluene	ND	0.050	mg/Kg	1	4/8/2021 7:01:33 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/8/2021 7:01:33 PM
Xylenes, Total	ND	0.099	mg/Kg	1	4/8/2021 7:01:33 PM
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	4/8/2021 7:01:33 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	4/9/2021 5:35:56 AM

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

Qualifiers:

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

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

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Date Reported: 4/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Batt

Lab ID: 2104164-002

Client Sample ID: S-8 Wall

Collection Date: 4/1/2021 8:35:00 AM

Received Date: 4/6/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/7/2021 3:21:22 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/7/2021 3:21:22 PM
Surr: DNOP	97.4	70-130	%Rec	1	4/7/2021 3:21:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/8/2021 7:25:16 PM
Surr: BFB	97.2	70-130	%Rec	1	4/8/2021 7:25:16 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	4/8/2021 7:25:16 PM
Toluene	ND	0.048	mg/Kg	1	4/8/2021 7:25:16 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/8/2021 7:25:16 PM
Xylenes, Total	ND	0.096	mg/Kg	1	4/8/2021 7:25:16 PM
Surr: 4-Bromofluorobenzene	96.4	70-130	%Rec	1	4/8/2021 7:25:16 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	4/9/2021 5:48:17 AM

Matrix: SOIL

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

Qualifiers:

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

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

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2104164-003

Lab ID:

Analytical ReportLab Order **2104164**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/9/2021

Received Date: 4/6/2021 7:30:00 AM

CLIENT: Pima Environmental Services LLC Client Sample ID: S-11-3ft Bottom

Matrix: SOIL

Project: Hackberry 18 Fed 2 Batt Collection Date: 4/1/2021 8:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 10 mg/Kg 1 4/7/2021 3:31:13 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 4/7/2021 3:31:13 PM Surr: DNOP 97.0 70-130 %Rec 1 4/7/2021 3:31:13 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4/8/2021 7:48:43 PM 4.9 mg/Kg 1 Surr: BFB 97.8 70-130 %Rec 1 4/8/2021 7:48:43 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 4/8/2021 7:48:43 PM 1 Toluene ND 0.049 mg/Kg 1 4/8/2021 7:48:43 PM Ethylbenzene ND 0.049 mg/Kg 1 4/8/2021 7:48:43 PM Xylenes, Total ND 0.099 mg/Kg 1 4/8/2021 7:48:43 PM Surr: 4-Bromofluorobenzene 96.9 70-130 %Rec 1 4/8/2021 7:48:43 PM Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride ND 60 4/9/2021 6:00:38 AM ma/Ka 20

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

Qualifiers:

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

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

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Date Reported: 4/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-11- Wall

 Project:
 Hackberry 18 Fed 2 Batt
 Collection Date: 4/1/2021 8:45:00 AM

 Lab ID:
 2104164-004
 Matrix: SOIL
 Received Date: 4/6/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	4/7/2021 3:41:08 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/7/2021 3:41:08 PM
Surr: DNOP	105	70-130	%Rec	1	4/7/2021 3:41:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/8/2021 8:12:10 PM
Surr: BFB	99.0	70-130	%Rec	1	4/8/2021 8:12:10 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	4/8/2021 8:12:10 PM
Toluene	ND	0.047	mg/Kg	1	4/8/2021 8:12:10 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/8/2021 8:12:10 PM
Xylenes, Total	ND	0.093	mg/Kg	1	4/8/2021 8:12:10 PM
Surr: 4-Bromofluorobenzene	97.5	70-130	%Rec	1	4/8/2021 8:12:10 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	4/9/2021 6:37:40 AM

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

Qualifiers:

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

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

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Date Reported: 4/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-7-4ft Bottom

Project: Hackberry 18 Fed 2 Batt Collection Date: 4/1/2021 8:50:00 AM

Lab ID: 2104164-005 **Matrix:** SOIL **Received Date:** 4/6/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/7/2021 3:51:02 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/7/2021 3:51:02 PM
Surr: DNOP	102	70-130	%Rec	1	4/7/2021 3:51:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/8/2021 8:35:37 PM
Surr: BFB	98.8	70-130	%Rec	1	4/8/2021 8:35:37 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	4/8/2021 8:35:37 PM
Toluene	ND	0.049	mg/Kg	1	4/8/2021 8:35:37 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/8/2021 8:35:37 PM
Xylenes, Total	ND	0.099	mg/Kg	1	4/8/2021 8:35:37 PM
Surr: 4-Bromofluorobenzene	98.1	70-130	%Rec	1	4/8/2021 8:35:37 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	4/9/2021 6:50:00 AM

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

Qualifiers:

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

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

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Date Reported: 4/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC Client Sample ID: S-7- Wall

 Project:
 Hackberry 18 Fed 2 Batt
 Collection Date: 4/1/2021 8:55:00 AM

 Lab ID:
 2104164-006
 Matrix: SOIL
 Received Date: 4/6/2021 7:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 4/7/2021 4:00:58 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/7/2021 4:00:58 PM Surr: DNOP 70-130 %Rec 1 4/7/2021 4:00:58 PM 111 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4/8/2021 8:59:07 PM 4.9 mg/Kg 1 Surr: BFB 100 70-130 %Rec 1 4/8/2021 8:59:07 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 4/8/2021 8:59:07 PM 1 Toluene ND 0.049 mg/Kg 1 4/8/2021 8:59:07 PM Ethylbenzene ND 0.049 mg/Kg 1 4/8/2021 8:59:07 PM Xylenes, Total ND 0.098 mg/Kg 1 4/8/2021 8:59:07 PM 4/8/2021 8:59:07 PM Surr: 4-Bromofluorobenzene 98.6 70-130 %Rec 1 Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride ND 61 4/9/2021 7:02:21 AM ma/Ka 20

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104164**

09-Apr-21

Client: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Batt

Sample ID: MB-59301 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59301 RunNo: 76565

Prep Date: 4/8/2021 Analysis Date: 4/9/2021 SeqNo: 2712617 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-59301 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59301 RunNo: 76565

Prep Date: 4/8/2021 Analysis Date: 4/9/2021 SeqNo: 2712618 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104164 09-Apr-21**

Client: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Batt

Sample ID: MB-59242 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 59242 RunNo: 76528

Prep Date: 4/6/2021 Analysis Date: 4/7/2021 SeqNo: 2711249 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 10 10.00 102 70 130

Sample ID: LCS-59242 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 59242 RunNo: 76528

Prep Date: 4/6/2021 Analysis Date: 4/7/2021 SeqNo: 2711250 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 49 10 68.9 50.00 97.1 141

Surr: DNOP 5.1 5.000 102 70 130

Sample ID: MB-59281 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 59281 RunNo: 76564

Prep Date: 4/8/2021 Analysis Date: 4/8/2021 SeqNo: 2712500 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 10 10.00 104 70 130

Sample ID: LCS-59281 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 59281 RunNo: 76564

Prep Date: 4/8/2021 Analysis Date: 4/8/2021 SeqNo: 2712502 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP 4.9 5.000 98.0 70 130

Qualifiers:

* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104164**

09-Apr-21

Client: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Batt

Sample ID: mb-59235 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **59235** RunNo: **76526**

Prep Date: 4/6/2021 Analysis Date: 4/7/2021 SeqNo: 2711181 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 970 1000 97.4 70 130

Sample ID: Ics-59235 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 59235 RunNo: 76526

Prep Date: 4/6/2021 Analysis Date: 4/7/2021 SeqNo: 2711182 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 99.2 78.6 131

Surr: BFB 1100 1000 106 70 130

Sample ID: mb-59283 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 59283 RunNo: 76560

Prep Date: 4/7/2021 Analysis Date: 4/9/2021 SeqNo: 2712382 Units: %Rec

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

Surr: BFB 980 1000 97.8 70 130

Sample ID: Ics-59283 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 59283 RunNo: 76560

Prep Date: 4/7/2021 Analysis Date: 4/8/2021 SeqNo: 2712383 Units: %Rec

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

Surr: BFB 1100 1000 110 70 130

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2104164**

09-Apr-21

Client: Pima Environmental Services LLC

Project: Hackberry 18 Fed 2 Batt

Sample ID: mb-59235	SampT	уре: МЕ	BLK	TestCode: EPA Method			8021B: Volatiles				
Client ID: PBS	Batcl	h ID: 59 2	235	F	RunNo: 76526						
Prep Date: 4/6/2021	Analysis D	Date: 4/	7/2021	S	SeqNo: 2	711230	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.97		1.000		96.7	70	130				

Sample ID: LCS-59235	Samp	Гуре: LC	s	TestCode: EPA Method			8021B: Volat	tiles			
Client ID: LCSS	Batc	h ID: 59 :	235	F	RunNo: 76526						
Prep Date: 4/6/2021	Analysis [Date: 4/	7/2021	SeqNo: 2711231			1231 Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.94	0.025	1.000	0	94.0	80	120				
Toluene	0.95	0.050	1.000	0	95.4	80	120				
Ethylbenzene	0.94	0.050	1.000	0	93.7	80	120				
Xylenes, Total	2.8	0.10	3.000	0	93.5	80	120				
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130				

Sample ID: mb-59283	SampT	ype: MI	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	n ID: 59	283	F	RunNo: 7	6560				
Prep Date: 4/7/2021	Analysis D	ate: 4/	/9/2021	S	SeqNo: 2	712425	Units: %Red	:		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	70	130			

Sample ID: LCS-59283	Sample ID: LCS-59283 SampType: LCS		Tes	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch	ID: 59	283	F	RunNo: 70	6560				
Prep Date: 4/7/2021	Analysis D	ate: 4/	/9/2021	S	SeqNo: 2	712426	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1 000		99.8	70	130			

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL; 505-345-3975 FAX; 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	Pima Environmental Services LLC	Work Order Number	210	4164			RcptNo: 1
Received By:	Juan Rojas	4/6/2021 7:30:00 AM			flans	3	
Completed By:	Cheyenne Cason	4/6/2021 7:52:23 AM					
Reviewed By:	SGC 4/6/21						
Chain of Cus	stody						
1. Is Chain of C	ustody complete?		Yes	V	No		Not Present
2. How was the	sample delivered?		Cou	rier			
Log In							
	npt made to cool the samples	?	Yes	V	No		NA 🗌
4. Were all sam	ples received at a temperature	e of >0° C to 6.0°C	Yes		No	v	NA 🗆
					d by client.		
5. Sample(s) in	proper container(s)?		Yes	V	No		
6. Sufficient sam	nple volume for indicated test(s)?	Yes	V	No [
7. Are samples ((except VOA and ONG) prope	rly preserved?	Yes	V	No [
8. Was preserva	ative added to bottles?		Yes		No B	V	NA 🗆
9. Received at le	east 1 vial with headspace <1/	4" for AQ VOA?	Yes		No [NA 🗸
10. Were any sar	mple containers received brok	en?	Yes		No [V	# of preserved
11 5			2.0		2.7	_	bottles checked
	ork match bottle labels? ancies on chain of custody)		Yes	V	No L		for pH: (<2 or >12 unless noted)
	correctly identified on Chain of	f Custody?	Yes	V	No [Adjusted?
	t analyses were requested?		Yes	V	No [
14. Were all holdi	ng times able to be met?		Yes	V	No [Checked by: SPA 4.6.2
	ustomer for authorization.)						
7.1	ling (if applicable)						
15, Was client no	otified of all discrepancies with	this order?	Yes		No		NA 🗹
Person	Notified:	Date:					
By Who	om:	Via:	eM	ail [Phone	Fax	In Person
Regard	ing:						
Client I	nstructions:						
16. Additional re	marks:						
17. <u>Cooler Infor</u> Cooler No		Seal Intact Seal No S	eal D	ate	Signed B	y	

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 18 Fed 2

Work Order: E301108

Job Number: 01058-0007

Received: 1/20/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/24/23

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: 1/24/23

Tom Bynum PO Box 247

Plains, TX 79355-0247

Project Name: Hackberry 18 Fed 2

Workorder: E301108

Date Received: 1/20/2023 7:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/20/2023 7:00:00AM, under the Project Name: Hackberry 18 Fed 2.

The analytical test results summarized in this report with the Project Name: Hackberry 18 Fed 2 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

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Field Offices:

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West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	Donoutoda
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	01/24/23 09:26

Client Sample ID	Lab Sample ID Matrix	Sampled Rece	eived Container
S-8 4'	E301108-01A Soil	01/17/23 01/20	0/23 Glass Jar, 2 oz.
S-11 4'	E301108-02A Soil	01/17/23 01/20	0/23 Glass Jar, 2 oz.



Report to:
Tom Bynum



5796 U.S. Hwy 64 Farmington, NM 87401

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Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Hackberry 18 Fed 2

Work Order: E302011

Job Number: 01058-0007

Received: 2/2/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/8/23

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.

Date Reported: 2/8/23

Tom Bynum PO Box 247 Plains, TX 79355-0247

Project Name: Hackberry 18 Fed 2

Workorder: E302011

Date Received: 2/2/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2023 8:15:00AM, under the Project Name: Hackberry 18 Fed 2.

The analytical test results summarized in this report with the Project Name: Hackberry 18 Fed 2 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.

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	Reported:
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/08/23 09:09

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SW-1	E302011-01A Soil	01/30/23	02/02/23	Glass Jar, 2 oz.
SW-2	E302011-02A Soil	01/30/23	02/02/23	Glass Jar, 2 oz.
SW-3	E302011-03A Soil	01/30/23	02/02/23	Glass Jar, 2 oz.
SW-4	E302011-04A Soil	01/30/23	02/02/23	Glass Jar, 2 oz.



Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/8/2023 9:09:59AM

SW-1

	2002011 01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: SL		Batch: 2305051
ND	0.0250	1	02/02/23	02/03/23	
ND	0.0250	1	02/02/23	02/03/23	
ND	0.0250	1	02/02/23	02/03/23	
ND	0.0250	1	02/02/23	02/03/23	
ND	0.0500	1	02/02/23	02/03/23	
ND	0.0250	1	02/02/23	02/03/23	
	102 %	70-130	02/02/23	02/03/23	
mg/kg	mg/kg	Analy	st: SL		Batch: 2305051
ND	20.0	1	02/02/23	02/03/23	
	93.5 %	70-130	02/02/23	02/03/23	
mg/kg	mg/kg	Analy	st: KM		Batch: 2305040
ND	25.0	1	02/02/23	02/02/23	
ND	50.0	1	02/02/23	02/02/23	
	99.9 %	50-200	02/02/23	02/02/23	
mg/kg	mg/kg	Analy	st: BA		Batch: 2305061
	mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ID2 % mg/kg mg/kg mg/kg ND 20.0 93.5 % mg/kg ND 25.0 ND 50.0	Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 MD 250 1 Mg/kg mg/kg Analy Mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 02/02/23 ND 0.0250 1 02/02/23 ND 0.0250 1 02/02/23 ND 0.0500 1 02/02/23 ND 0.0250 1 02/02/23 ND 0.0250 1 02/02/23 mg/kg mg/kg Analyst: SL ND 20.0 1 02/02/23 mg/kg mg/kg Analyst: KM ND 25.0 1 02/02/23 ND 50.0 1 02/02/23	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 02/02/23 02/03/23 ND 0.0250 1 02/02/23 02/03/23 ND 0.0250 1 02/02/23 02/03/23 ND 0.0500 1 02/02/23 02/03/23 ND 0.0250 1 02/02/23 02/03/23 ND 0.0250 1 02/02/23 02/03/23 mg/kg mg/kg Analyst: SL ND 20.0 1 02/02/23 02/03/23 mg/kg mg/kg Analyst: KM ND 25.0 1 02/02/23 02/02/23 ND 25.0 1 02/02/23 02/02/23 ND 50.0 1 02/02/23 02/02/23

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/8/2023 9:09:59AM

SW-2

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2305051
Benzene	ND	0.0250	1	02/02/23	02/03/23	
Ethylbenzene	ND	0.0250	1	02/02/23	02/03/23	
Toluene	ND	0.0250	1	02/02/23	02/03/23	
o-Xylene	ND	0.0250	1	02/02/23	02/03/23	
p,m-Xylene	ND	0.0500	1	02/02/23	02/03/23	
Total Xylenes	ND	0.0250	1	02/02/23	02/03/23	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	02/02/23	02/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	Analyst: SL		Batch: 2305051
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/23	02/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	02/02/23	02/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2305040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/02/23	02/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/02/23	02/02/23	
Surrogate: n-Nonane		105 %	50-200	02/02/23	02/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2305061
Chloride	ND	20.0	1	02/02/23	02/03/23	



Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/8/2023 9:09:59AM

SW-3

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2305051
Benzene	ND	0.0250	1	02/02/23	02/03/23	
Ethylbenzene	ND	0.0250	1	02/02/23	02/03/23	
Toluene	ND	0.0250	1	02/02/23	02/03/23	
o-Xylene	ND	0.0250	1	02/02/23	02/03/23	
p,m-Xylene	ND	0.0500	1	02/02/23	02/03/23	
Total Xylenes	ND	0.0250	1	02/02/23	02/03/23	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	02/02/23	02/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: SL		Batch: 2305051
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/23	02/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130	02/02/23	02/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2305040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/02/23	02/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/02/23	02/02/23	
Surrogate: n-Nonane		106 %	50-200	02/02/23	02/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2305061
Chloride	ND	20.0	1	02/02/23	02/03/23	·



Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/8/2023 9:09:59AM

SW-4

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2305051
Benzene	ND	0.0250	1	02/02/23	02/03/23	
Ethylbenzene	ND	0.0250	1	02/02/23	02/03/23	
Toluene	ND	0.0250	1	02/02/23	02/03/23	
o-Xylene	ND	0.0250	1	02/02/23	02/03/23	
p,m-Xylene	ND	0.0500	1	02/02/23	02/03/23	
Total Xylenes	ND	0.0250	1	02/02/23	02/03/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	02/02/23	02/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: SL		Batch: 2305051
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/23	02/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	70-130	02/02/23	02/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2305040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/02/23	02/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/02/23	02/02/23	
Surrogate: n-Nonane		106 %	50-200	02/02/23	02/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2305061
Chloride	ND	20.0	1	02/02/23	02/03/23	

		QC 50	4111111	ary Dat					
Pima Environmental Services-Carlsbad PO Box 247		Project Name: Project Number:	0	fackberry 18 F 1058-0007	ed 2				Reported:
Plains TX, 79355-0247		Project Manager:	Т	om Bynum					2/8/2023 9:09:59AM
		Volatile O	rganics	by EPA 802	21B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2305051-BLK1)							Prepared: 0	2/02/23 A	analyzed: 02/03/23
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	8.28		8.00		103	70-130			
LCS (2305051-BS1)							Prepared: 0	2/02/23 A	analyzed: 02/03/23
Benzene	5.01	0.0250	5.00		100	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.3	70-130			
Toluene	5.10	0.0250	5.00		102	70-130			
o-Xylene	5.13	0.0250	5.00		103	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			
Matrix Spike (2305051-MS1)				Source:	E302010-	01	Prepared: 0	2/02/23 A	analyzed: 02/03/23
Benzene	4.63	0.0250	5.00	ND	92.6	54-133			
Ethylbenzene	4.71	0.0250	5.00	ND	94.1	61-133			
Toluene	4.80	0.0250	5.00	ND	96.1	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.1	63-131			
p,m-Xylene	9.54	0.0500	10.0	ND	95.4	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.25		8.00		103	70-130			
Matrix Spike Dup (2305051-MSD1)				Source:	E302010-	01	Prepared: 0	2/02/23 A	analyzed: 02/03/23
Benzene	4.89	0.0250	5.00	ND	97.9	54-133	5.56	20	
Ethylbenzene	4.96	0.0250	5.00	ND	99.2	61-133	5.27	20	
Toluene	5.07	0.0250	5.00	ND	101	61-130	5.39	20	
o-Xylene	5.13	0.0250	5.00	ND	103	63-131	5.48	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	5.42	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	5.44	20	

8.00

8.55

70-130



Surrogate: 4-Bromochlorobenzene-PID

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	Reported:
PO Box 247	Project Number:	01058-0007	_
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/8/2023 9:09:59AM

Plains TX, 79355-0247		Project Manage	r: To	m Bynum				2/8	3/2023 9:09:59AM	
	Non	Nonhalogenated Organics by EPA 8015D - GRO							Analyst: SL	
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes	
Blank (2305051-BLK1)							Prepared: 02	2/02/23 Anal	yzed: 02/03/23	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130				
LCS (2305051-BS2)							Prepared: 02	2/02/23 Anal	yzed: 02/03/23	
Gasoline Range Organics (C6-C10)	53.5	20.0	50.0		107	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.6	70-130				
Matrix Spike (2305051-MS2)				Source:	E302010-	01	Prepared: 02	2/02/23 Anal	yzed: 02/03/23	
Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130				
Matrix Spike Dup (2305051-MSD2)				Source:	E302010-	01	Prepared: 02	2/02/23 Anal	yzed: 02/03/23	
Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130	0.0427	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130				

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	Reported:
PO Box 247	Project Number:	01058-0007	•
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/8/2023 9:09:59AM

Plains TX, 79355-0247		Project Manager	r: To	m Bynum					2/8/2023 9:09:59AM		
	Nonhal	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO		Analyst: RAS			
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limi			
Blank (2305040-BLK1)							Prepared: 0	2/01/23	Analyzed: 02/01/23		
Diesel Range Organics (C10-C28)	ND	25.0									
Dil Range Organics (C28-C36)	ND	50.0									
urrogate: n-Nonane	55.5		50.0		111	50-200					
LCS (2305040-BS1)							Prepared: 0	2/01/23	Analyzed: 02/01/23		
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132					
urrogate: n-Nonane	52.2		50.0		104	50-200					
LCS Dup (2305040-BSD1)							Prepared: 0	2/01/23	Analyzed: 02/01/23		
Diesel Range Organics (C10-C28)	265	25.0	250		106	38-132	1.55	20			
'urrogate: n-Nonane	51.8		50.0		104	50-200					



Pima Environmental Services-Carlsbad PO Box 247		Project Name: Project Number:		Hackberry 18 F 01058-0007	ed 2				Reported:
Plains TX, 79355-0247		Project Manager		Tom Bynum					2/8/2023 9:09:59AM
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2305061-BLK1)							Prepared: 0	2/02/23 A	analyzed: 02/02/23
Chloride	ND	20.0							
LCS (2305061-BS1)							Prepared: 0	2/02/23 A	nalyzed: 02/03/23
Chloride	250	20.0	250		99.8	90-110			
Matrix Spike (2305061-MS1)				Source:	E302010-0	01	Prepared: 0	2/02/23 A	nalyzed: 02/03/23
Chloride	250	20.0	250	ND	100	80-120			
Matrix Spike Dup (2305061-MSD1)				Source:	E302010-0	01	Prepared: 0	2/02/23 A	nalyzed: 02/03/23
Chloride	250	20.0	250	ND	100	80-120	0.0244	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

ſ	Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	
١	PO Box 247	Project Number:	01058-0007	Reported:
l	Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/08/23 09:09

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	Inform	nation
Client:	Pima	Envir

Chain of Custody

of
rogram
SDWA
RCRA

Client: P	ima Envi	ronment	al Servic	ces	Bill To				La	b Us	se On	ly				TA	AT	EPA P	rogram	
Project:	HACKL	PRRY	18 FE	02	Attention: Devon Ener	4V	Lab '	WO#			Job I	Numb		1D	2D	3D	Standard	CWA	SDWA	
Project N	lan ager:	Tom By	num		Address:	77	E3	SO	110				0007				X			
Address:	5614 N.	Lovingto	on Hwy.		City, State, Zip						Analy	sis and	Method						RCRA	
City, Stat	e, Zip Ho	bbs, NN	1, 88240		Phone:															
	580-748-				Email:		115	115							1			State	Law I	
	tom@pin	naoil.con	n		Dima Design # / 21/		y 80	oy 80	21	0	0	300.0		NN			NM CO	UT AZ	TX	
Report d				1	Pima Project # -/- 34	1====	NO I	SRO E	η 8021	y 826	601	de 30			X		AL			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	втех ьу	VOC by 8260	Metals 6010	Chloride		верос	BGDDC			Remarks		
1:00	1/30/23	5	- (SW-1	The state of the s	1				1				X						
1:05				SW-Z	da Marina a la companya da mananga	2								1						
1:10				SW-3		3											,= ,==			
1:15	- 1	1		SW-H		4								1						
																		- 4		
			- white was																	
Addition	al Instruc	tions: 5	3.11	To D	ven Energy:# 2	187	GI	7.5	G											
I, (field sam)	oler), attest to	the validity	and authent	icity of this sample. I a	m aware that tampering with or intentionally mislabe	ling the sample	location 100	on,	de	5	Sampl packe	es requiri d in ice at	ng thermal p an avg temp	resen abov	ation r e 0 but	nust be re less than	eceived on ice the da 6 °C on subsequent	y they are sam days.	oled or received	
	ed by: (Sight		Date	Time	OO (Signature)	Date 2-1-		Time			Rec	eived	on ice:		Lab l	Jse Oi N	nly	***		
Relinquish	ed by: (Signa	weter)	Date	Time	Received by: (Signature)	Date 2-/-2	7	Time /	700	0	T1	in .				6.50				
Relinquish	ed by: (Signa	ture)	Date Z-	/-23 Z36	Received by (Signature)	2/2/2	23	Time	:/5	-		i Temi	°c 4		and a					
			Sludge, A - A	queous, O - Other		Containe									ass, v	- VOA	1			
Note: Sam	ples are disc	arded 30 da	ays after re	sults are reported ur	less other arrangements are made. Hazardous	samples will	be re	urnec	to cli	ent o	r dispo	osed of	at the clie	nt ex	pens	e. The	report for the a	nalysis of th	e above	
samples is	applicable o	nly to those	e samples r	eceived by the labor	atory with this COC. The liability of the laborato	ry is limited to	o the a	mour	nt paid	ford	n the	report.								



Printed: 2/2/2023 9:21:37AM

Envirotech Analytical Laboratory

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:	02/02/23 (08:15		Work Order ID:	E302011
Phone:	(575) 631-6977	Date Logged In:	02/01/23 1	16:23		Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	02/08/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>ourier</u>		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes	_		Comments	s/Resolution
Sample T	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes C				
Sample C		<u></u>	_				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	?	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lal							
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes	L			
C	ollectors name?		No				
	reservation						
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?	. 1.0	NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multipha		No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
28. Are sa	amples required to get sent to a subcontract laborato	ry?	No				
29. Was a	subcontract laboratory specified by the client and is	f so who?	NA	Subcontract Lab	: NA		
Client Ir	astruction_						
<u>enene n</u>	NAME ACCOUNT.						

Date

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/24/2023 9:26:36AM

S-8 4'

E301108-01

		E301100-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2303066
Benzene	ND	0.0250	1	01/20/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/20/23	01/20/23	
Toluene	ND	0.0250	1	01/20/23	01/20/23	
o-Xylene	ND	0.0250	1	01/20/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/20/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/20/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	01/20/23	01/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2303066
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/20/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	70-130	01/20/23	01/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2303064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/20/23	01/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/20/23	01/20/23	
Surrogate: n-Nonane		99.7 %	50-200	01/20/23	01/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2303081
Chloride	ND	20.0	1	01/20/23	01/21/23	

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/24/2023 9:26:36AM

S-11 4'

E301108-02

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2303066
Benzene	ND	0.0250	1	01/20/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/20/23	01/20/23	
Toluene	ND	0.0250	1	01/20/23	01/20/23	
o-Xylene	ND	0.0250	1	01/20/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/20/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/20/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	01/20/23	01/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2303066
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/20/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	70-130	01/20/23	01/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2303064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/20/23	01/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/20/23	01/20/23	
Surrogate: n-Nonane		102 %	50-200	01/20/23	01/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2303081
Chloride	ND	20.0	1	01/20/23	01/21/23	·



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	Reported:
PO Box 247	Project Number:	01058-0007	Reported.
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/24/2023 9:26:36AM

Plains TX, 79355-0247		Project Manager		om Bynum					1/24/2023 9:26:36AN
		Volatile (Organics b	y EPA 802	1B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2303066-BLK1)							Prepared: 0	1/20/23 A	nalyzed: 01/20/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	70-130			
LCS (2303066-BS1)							Prepared: 0	1/20/23 A	nalyzed: 01/20/23
Benzene	5.20	0.0250	5.00		104	70-130			
Ethylbenzene	5.59	0.0250	5.00		112	70-130			
Toluene	5.62	0.0250	5.00		112	70-130			
-Xylene	5.74	0.0250	5.00		115	70-130			
o,m-Xylene	11.3	0.0500	10.0		113	70-130			
Total Xylenes	17.1	0.0250	15.0		114	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.20		8.00		102	70-130			
LCS Dup (2303066-BSD1)							Prepared: 0	1/20/23 A	nalyzed: 01/20/23
Benzene	4.92	0.0250	5.00		98.4	70-130	5.44	20	
Ethylbenzene	5.29	0.0250	5.00		106	70-130	5.58	20	
Toluene	5.33	0.0250	5.00		107	70-130	5.43	20	
o-Xylene	5.43	0.0250	5.00		109	70-130	5.55	20	
o,m-Xylene	10.7	0.0500	10.0		107	70-130	5.54	20	
Total Xylenes	16.2	0.0250	15.0		108	70-130	5.54	20	

70-130



Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	Reported:
PO Box 247	Project Number:	01058-0007	-
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/24/2023 9:26:36AM

Plains TX, 79355-0247		Project Manage		om Bynum				1/2	4/2023 9:26:36AM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2303066-BLK1)							Prepared: 0	1/20/23 Anal	yzed: 01/20/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.4	70-130			
LCS (2303066-BS2)							Prepared: 0	1/20/23 Anal	yzed: 01/20/23
Gasoline Range Organics (C6-C10)	51.6	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.4	70-130			
LCS Dup (2303066-BSD2)							Prepared: 0	1/20/23 Anal	yzed: 01/20/23
Gasoline Range Organics (C6-C10)	57.8	20.0	50.0		116	70-130	11.3	20	

70-130

Pima Environmental Services-Carlsbad	Project Name:	Hackberry 18 Fed 2	Reported:
PO Box 247	Project Number:	01058-0007	_
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/24/2023 9:26:36AM

Plains TX, 79355-0247		Project Manager	r: 10	m Bynum					1/24/2023 9:26:36AN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2303064-BLK1)							Prepared: 0	1/20/23 A	nalyzed: 01/20/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.7		50.0		87.4	50-200			
LCS (2303064-BS1)							Prepared: 0	1/20/23 A	nalyzed: 01/20/23
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
urrogate: n-Nonane	51.9		50.0		104	50-200			
Matrix Spike (2303064-MS1)				Source:	E301108-0	02	Prepared: 0	1/20/23 A	nalyzed: 01/20/23
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132			
Surrogate: n-Nonane	52.2		50.0		104	50-200			
Matrix Spike Dup (2303064-MSD1)				Source:	E301108-0	02	Prepared: 0	1/20/23 A	nalyzed: 01/20/23
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	0.210	20	
Surrogate: n-Nonane	52.1		50.0		104	50-200			



Pima Environmental Services-Carlsbad PO Box 247		Project Name: Project Number:		Hackberry 18 F	ed 2				Reported:
Plains TX, 79355-0247		Project Number: Project Manager:		Com Bynum					1/24/2023 9:26:36AM
		Anions	by EPA	300.0/9056	1				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2303081-BLK1)							Prepared: 0	1/20/23 A	nalyzed: 01/21/23
Chloride	ND	20.0							
LCS (2303081-BS1)							Prepared: 0	1/20/23 A	nalyzed: 01/21/23
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2303081-MS1)				Source:	E301104-0	01	Prepared: 0	1/20/23 A	nalyzed: 01/21/23
Chloride	5380	400	250	5740	NR	80-120			M4
Matrix Spike Dup (2303081-MSD1)				Source:	E301104-0	01	Prepared: 0	1/20/23 A	nalyzed: 01/21/23
Chloride	5730	400	250	5740	NR	80-120	6.39	20	M4

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 18 Fed 2	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	01/24/23 09:26

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

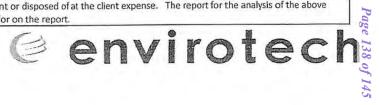
Note (1): Methods marked with ** are non-accredited methods.

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



	1	1	e
Page	of_	1	re

Client: F	ima Envi	ronmen	tal Servi	ces		Bill To		T		La	b Us	se On	ly				TA	AT .	EPA P	rogram
Project:	HACKD	erry	18 fee		At	tention: Devon Ener	24_	Lab	WO#			Job I	Numb	er _	1D	2D	3D	Standard	CWA	SDWA
	Manager:				Ad	dress:		E	30	108	5	010	58-0	7000	170			X		DCDA
	56 14 N.				100	y, State, Zip			Analysis and I				Metho	d	1	1			RCRA	
	te, Zip Ho		Л, 88240)	1	none:	-												Ctoto	
	580-748-				E	nail:		3015	1015				_			1		NIMI CO	State UT AZ	TVI
Report o	tom@pin lue by:	naon.com	n		F	ima Project # /-34		O by 8	O by 8	8021	3260	010	300.0		NN	¥		X	OT AZ	1/
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Numbe	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC			Remarks	
9:00	1/17/23	5	1	5-8	4'		1								X					
9:05	L	1	T	5-11	4'		2								Ĺ					
				111																
															T	T				
					and the second second							\vdash			+	1				
Additio	nal Instruc	tions: T	201	15)	Energy: # Z	0000	n	-a				1_1			1	٠,			
				ticity of this sam may be grounds	ole. I am awar	that tampering with or intentionally misl	abelling the samp	le locati	ion,									eceived on ice the day 6 °C on subsequent o		led or received
1/20	ed by Sign	915	Date		ime Z:00 P	Received by: (Signature)	Date 1-19	-23	Time /4	100)	Rec	eived	on ice:		Lab L	Jse Or V	nly		
Relinquish	ed by (Signa	uised	Date /-	1923	1715	Received by: (Signature)	Date 1-19.			730		T1			<u>T2</u>			<u>T3</u>		
Relinguish	ed by: (Signa Clugo	fei	Date /-	19-23	2300	Regeived by (Signature)	Date 1/20			:a		AVG	Temp	°c4	1				3150	- 1/4
Sample Ma	trix S - Soil So	d - Solid, Sg -	Sludge, A -	Aqueous, O - Oth	er		Contain					oly/p	lastic, a	ag - amb	per gl					
Note: San	ples are disc	carded 30 d	ays after re	esults are repo	ted unless o	her arrangements are made. Hazard	ous samples w	III be re	turned	to cli	ent o	r dispo	osed of	at the cli	ent ex	pense	. The	report for the ar	alysis of the	above
samples is	applicable of	only to thos	e samples	received by the	laboratory v	with this COC. The liability of the labor	atory is limited	to the	amour	nt paid	forc	on the	report.							



Printed: 1/20/2023 8:51:28AM

Envirotech Analytical Laboratory

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:	01/20/23	07:00		Work Order ID:	E301108
Phone:	(575) 631-6977	Date Logged In:	01/19/23	15:56		Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	01/26/23	17:00 (4 day TAT)			
Chain o	f Custody (COC)						
1. Does	the sample ID match the COC?		Yes				
	the number of samples per sampling site location mate	ch the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Co	ourier		
4. Was tl	ne COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in	the field.	Yes				
Campala.	i.e, 15 minute hold time, are not included in this disucssion			Г		Comment	s/Resolution
	Turn Around Time (TAT)		Yes				
	e COC indicate standard TAT, or Expedited TAT?		168				
Sample 7 Wes a			Ves				
	sample cooler received? was cooler received in good condition?		Yes				
•	· ·		Yes				
	ne sample(s) received intact, i.e., not broken?		Yes				
	e custody/security seals present?		No				
11. If ye	s, were custody/security seals intact?		NA				
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling	received w/i 15	Yes				
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°	<u>C</u>				
	<u>Container</u>						
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e 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 1	non-VOC samples collected in the correct containers?		Yes				
19. Is the	appropriate volume/weight or number of sample contain	ers collected?	Yes				
Field La							
	e field sample labels filled out with the minimum info	rmation:	37				
	Sample ID?		Yes	L			
	Date/Time Collected? Collectors name?		Yes No				
	Preservation		NO				
	the COC or field labels indicate the samples were pro-	eserved?	No				
	sample(s) correctly preserved?		NA				
	o filteration required and/or requested for dissolved m	etals?	No				
	ase Sample Matrix						
	the sample have more than one phase, i.e., multiphas	a?	Na				
	s, does the COC specify which phase(s) is to be analy		No NA				
		zeu.	INA				
	ract Laboratory						
	samples required to get sent to a subcontract laborator	•	No				
29. Was	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab:	: na		
Client l	<u>Instruction</u>						

Date

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



Appendix F

Rejected Closure Report



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

August 26, 2020

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

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

Re: Work Plan Report

Hackberry 18 Fed #2 API No. 30-015-30551 GPS: Latitude 32.6658363

UL "C", Sec. 18, T19S, R31E

Eddy County, NM

NMOCD Ref. No. 2RP-660

Dear Mr. Billings and Mr. Amos,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and to submit a work plan for approved remediation activities on the open releases that occurred at the Hackberry 18 Fed #2 (Hackberry). The current open spill at this site is 2RP-660 release, the initial C-141 was submitted on 3-13-2009 and was assigned Incident ID NKMW1108338334, by the New Mexico Oil Conservation Division (NMOCD).

Longitude -103.9105835

See Appendix C for Initial C-141.

Site Characterization

The Hackberry is located approximately twenty-five (25) miles northeast of Carlsbad, NM. This spill site is in Unit C, Section 18, Township 19S, Range 31E, Latitude 32.6658363, Longitude -103.9105835, Eddy County, NM. Figure 1 references a location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation Eolian and piedmont deposits (Holocene to middle Pleistocene)-interlayed eolian sands and piedmont-slope deposits (QEP). The soil in this area is made up of Berino loamy fine sands, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present in the area of the 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 depth to groundwater is greater than 100 feet below grade surface (BGS). The nearest surface water is located 2.17 miles to the southeast. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29												
Depth to	Constituent & Limits											
Groundwater (Appendix A)	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene							
180'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg							
<50	600 mg/kg	100 mg/kg	100 mg/kg	50 mg/kg	10mg/kg							
	If the release occurred within any of the following areas, the responsible party would treat the release as if the groundwater was less than 50 feet per Rule 19.15.29											
	Water Is	sues		Yes	No							
Within <u>300</u> feet of ar watercourse		х										
Within 200 feet of any lakebed, sinkhole or playa lake (measures from the ordinary high-water mark												
Within <u>300</u> feet from institution or church	n an occupied perman	ent residence, schoo	ol, hospital,		х							
	spring or a private, do for domestic or stock		vell used by less		х							
Within 1000 feet of a	any freshwater well or	spring			х							
Within incorporated municipal boundaries or within a defined municipal freshwater well field												
Within 300 feet of a wetlands												
Within the area overlying a subsurface mine												
Within an unstable a	Within an unstable area (Karst)											
Within a 100-year flo	oodplain		_		х							

Reference Figure 2 for a TOPO Map.

Release Information

2RP-660: On March 9, 2009, a leak was discovered coming from the heater treater. Upon further investigation the fire tube developed a pin hole due to corrosion. The released fluids were calculated to be approximately 5 barrels (bbls) of oil and 5 bbls of produced water. No fluids were recovered.

Site Assessment and Soil Sampling Results

On July 29, 2020, Pima Environmental mobilized to the site to conduct a site assessment and obtain soil samples with a hand auger. Upon first look, there are some visual staining from the release. We sampled based on the description from the Initial C-141 and sampled in a grid pattern to get horizontal definition. The laboratory results of this sampling event can be found in the following data table.

7-29-20 Soil Sample Results

IVIN	NOCD Tab	le 1 Closu	re Criteria	19.15.29 K	MAC (Depi	n to Groun	dwater is >100	3.3
Sample Date 7-29-20	0			NM App	roved Labo	ratory Resu	lts	
Sample ID	Depth (8G5)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	ci mg/kg
	0.6"	ND	ND	ND	ND	ND	ND	ND
22	11	ND	ND	ND	ND	ND	ND	ND
5-1	2'	ND	ND	ND	ND	ND.	ND.	ND
	3,	ND	ND	ND	ND	ND	ND	ND
	0-6"	ND	ND	ND	ND	ND	ND	ND
***	1'	ND -	ND	ND	ND	ND	ND	ND
5-2	2'	ND	ND-	ND-	ND	ND	ND	ND-
	3'	ND	ND -	ND	ND	ND	ND	ND
	0-6"	ND	ND	ND	ND	ND	ND	ND
24	1'	ND	ND	ND	ND	ND	ND	ND
5-3	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
	0-6"	ND	ND	ND	ND	ND	ND	ND
0.5	1'	ND	ND	ND	ND	ND	ND	ND
5-4	2'	ND	ND	ND	ND	ND	ND	ND
_ 11	3'	ND	ND	ND	ND	ND:	ND	ND
	0.6"	ND	ND	ND	ND.	ND	ND	ND
5-5	11	ND	ND	ND	ND.	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
5.6	0-6"	ND	ND	ND	ND	ND	ND	80
	0-6"	ND	ND	ND	ND	ND	ND	5000
15	1'	ND	ND	ND	ND	ND	ND	1200
5-7	2'	ND	ND	ND	ND	ND	ND	390
	3'	ND	ND	ND	ND	ND	ND	240
	0-6"	ND	ND	ND	1300	2300	3600	ND
100	1'	ND	ND	ND	560	1200	1860	ND
5-8	2'	ND	ND	ND	ND	ND	ND	ND
-	3'	ND	ND	ND	55	96	151	ND
_	0.6"	ND	ND	ND	ND	ND.	ND	ND
360	1'	ND	ND	ND	ND	ND	ND	ND
5-9	2'	ND	ND	ND	ND	ND	ND.	ND
	3'	ND	ND	ND	ND	ND	ND	ND
+ + 1	0-6"	ND	ND:	ND	ND	ND	ND	140
	1'	ND	ND	ND	ND	ND	ND	ND
5-10	2'	ND	ND	ND	23	ND	23	66
	31	ND	ND	ND .	ND	ND	ND	ND
	0-6"	ND	ND	ND	17000	9100	26100	ND
20.19	1'	ND	ND	ND	940	980	1920	ND
5-11	2'	ND	ND	ND	4300	3200	7500	ND
	3'	ND	ND	ND	250	270	520	ND
	0-6"	ND	ND	ND	ND	ND	ND	100
100	1'	ND	ND	ND	ND	ND	ND	ND
5-12	2'	ND	ND ND	ND	ND	ND	ND	ND
Gi. I	3'	ND	ND	ND	ND	ND	ND	ND

ND- Analyte Not Detected

Complete Laboratory Reports are attached in Appendix D.

Proposed Site Remediation

Pima proposes that the contaminated areas from the releases and from our sampling event that exceed NMAC Closure Criteria be remediated through excavation and removal using mechanical equipment. The area in the vicinity of S-8 will be excavated to a depth of 2-feet BGS. The area in the vicinity of S-11 will be excavated to a depth of 3-feet BGS. Sidewall composite samples will be obtained to ensure that the horizontal extents of the contamination had been removed. Each composite sample will be representative of no more than 200 square feet. Laboratory analysis will include Method 8015 for TPH, including MRO, DRO, and GRO. Upon laboratory results showing all samples meet the required closure criteria, the excavation will be backfilled with locally obtained clean like material and contoured to match the surrounding location.

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

Respectfully,

Chris Jones

Environmental Professional Pima Environmental Services, LLC

Attachments

Figures:

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

Appendices:

Appendix A- Referenced Water Surveys
Appendix B- Soil Survey and Geological Data

Appendix C- C-141

Appendix D- Laboratory Reports

District I
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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 192181

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	192181
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwel	None	3/6/2023