

Volume calculator

There was no volume calculator prepared when the spill occurred.



REMEDIATION CLOSURE REPORT

Incident ID nJMW1331940873

Burton Flat 48

API # 30-015-40518

Prepared By:
Pima Environmental Services, LLC

Prepared For:
Devon Energy Production, LP

September 5, 2024

September 5, 2024

ATTN: NMOCD District 2
811 S. First St
Artesia, NM, 88210

Bureau of Land Management
620 E Green St.
Carlsbad, NM 88220

**RE: Remediation Closure Report
Burton Flat 48
API # 30-015-40518
GPS: Latitude 32.5435829 Longitude -104.1755981
ULSTR - I - 28 - 20S - 28E 2310 FSL 400 FEL Eddy County, NM
NMOCD Incident ID nJMW1331940873**

Devon Energy Production Company (Devon) has contracted Pima Environmental Services, LLC (Pima) to prepare this closure report for a produced water release that happened at the Burton Flat 48 (Burton). This incident was assigned Incident ID nJMW1331940873, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The Burton is located approximately seven (7) miles northeast of Carlsbad, NM. This spill site is in Unit I, Section 28, Township 20S, Range 28E, Latitude 32.5435829 Longitude -104.1755981, Eddy County, NM. A Location Map can be found in Figure 1.

Based upon the New Mexico Office of the State Engineer (CP-00920-POD1) well water data, depth to the nearest groundwater in this area is 29 feet below grade surface (bgs), located approximately 0.90 miles away from this release area. According to the United States Geological Survey (USGS 323311104104602 20S.28E.21.43334A) well water data, depth to the nearest groundwater in this area is 30 feet bgs. See Appendix A for referenced water surveys and water-related maps.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Eolian deposits (Holocene to middle Pleistocene). The soil in this area is made up of Gypsum land-Reeves complex, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a high potential for karst geology to be present around the Burton (Figure 3). A Topographic Map can be found in Figure 2.

Release Information

nJMW1331940873: On November 6, 2013, a water transfer line had a cracked valve which caused produced water to be released. On 11/5/13 while pressuring up and filling up a water transfer line from Burton Flat 47 to the Burton Flat 44 SWD the line pressured up to about 120 pounds and the line stayed flowing. The line lost pressure so everything was shut down and the valve was closed. While it was running approx. 400bbls went down the line and in trying to figure out if it was a pump problem or a line problem Ray Carter came across part of the line that had not been visibly inspected and noticed a valve was cracked open. When line pressured up it blew the plug and that is why pressure was lost and caused the spill. Approximately 200 barrels (bbls) of produced water went into the pasture—that is where the line is. No fluid was recovered. Called Talon for testing and clean out. An Original Site Map can be found in Figure 4. A corresponding Table & Lab Data from February 2, 2021, can be found in Appendix F (OCD Online: Permitting – Action Status, under the Application ID: 28122).

Countermeasures due to Remediation Closure Report Denied

On February 10, 2023, the NMOCD denied the remediation closure report citing:

“The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nJMW1331940873, for the following reasons:

- **Closure not approved. Provide more information on the bioremediation product utilized to remediate chloride contamination. Bioremediation must be approved by OCD. Submit a complete report by 4/14/2023.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 28122. Please

review and make the required correction(s) prior to resubmitting. If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141." A Bio-remediation Map can be found in Figure 5.

On June 28, 2024, Pima and the Devon construction department mobilized personnel and equipment to the site to begin removing all the soil previously treated by the bioremediation method. A 400 square foot area surrounding the original BG4 sample point was excavated by mechanical equipment to a depth of 1' bgs. After Devon submitted a 48-Hour sampling notification (Appendix C), Pima personnel collected confirmation samples from the excavation. Composite base samples were collected from 2 sample points and a composite wall sample was collected from the walls of the excavation. The samples were immediately put on ice, jarred, and delivered to Envirotech Labs for official testing. All samples were analyzed for all constituents listed on Table 1 19.15.29.12 NMAC. The results of this sampling event can be seen in the following data table. A Confirmation Sample Map can be found in Figure 6.

6/28/24 Soil Sampling Results								
NMOCD Table 1 Closure Criteria 19.15.29 NMAC (High Karst Zone)								
Devon Energy - Burton Flat Deep State Fed Com 48H - nJMW1331940873								
Date: 6/28/2024		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
CS1-1'	1'	ND	ND	ND	ND	ND	0	21.6
CS2-1'	1'	ND	ND	ND	ND	ND	0	25.3
CSW1-1'	1'	ND	ND	ND	ND	ND	0	33.5

A Complete Laboratory Report can be found in Appendix E. Photographic Documentation can be found in Appendix D.

Based on these lab results, the contaminant levels for all samples collected are under the regulatory limits according to the <50' depth to groundwater section of Table 1 19.15.29.12 NMAC. This excavation sufficiently removed all previously bioremediated soil. Clean, fresh backfill material was brought in to backfill the excavation. The area was repacked and back dragged to match the surrounding pad.

On September 4, 2024, the NMOCD denied the remediation closure report citing:

"The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nJMW1331940873, for the following reasons:

- The map titled "Original Site Map" shows sample points (S-1 through S-8). There are no analytical results included in the report for these sampling points. The report does refer to previously submitted lab data and remediation activities under application ID: 28122. This report was rejected, and the OCD will not refer to rejected reports. In accordance with 19.15.29.12 NMAC, a complete and accurate closure report must include all closure activities including sampling results and the details on any backfilling, capping or covering, where applicable.
- The questions "What is the estimated surface area (in square feet) that will be reclaimed" and "What is the estimated volume (in cubic yards) that will be reclaimed" were both answered "0". Zero is not an acceptable answer as remediation of the release occurred and must be reclaimed when the site is no longer reasonably needed for production or subsequent drilling activities pursuant to 19.15.29.13 NMAC.
- Submit a complete and accurate report though the OCD Permitting website by 10/4/2024.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 363644. Please review and make the required correction(s) prior to resubmitting. If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141."

On September 5, 2024, Devon contracted Pima Environmental Services to rewrite the closure report addressing the concerns mentioned above by the NMOCD. The data and laboratory report for the February 2, 2021 sampling event have been included in this report as Appendix F. The answers to the reclaimed surface area questions will be answered correctly when this corrected report is submitted through the OCD Permitting website.

Closure Request

After careful review, Pima requests that this incident, nJMW1331940873, be closed. Devon has complied with the applicable closure requirements for this incident and understands that reclamation of this pad area once it is no longer needed for production or subsequent drilling operations will require an approved reclamation plan addressing a minimum of four feet of non-waste containing earthen material.

Should you have any questions or need additional information, please feel free to contact:
Devon Energy – Dale Woodall at 575-748-0167 or Dale.Woodall@devon.com.
Pima Environmental – Tom Bynum at 580-748-1613 or tom@pimaoil.com.

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Original Site Map
- 5- Bio-remediation Map
- 6- Confirmation Sample Map

Appendices:

- Appendix A – Referenced Water Surveys & Water-Related Maps
- Appendix B – Soil Survey & Geological Data
- Appendix C – 48-Hour Notification & NMOCD Correspondence
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Report
- Appendix F – Table & Lab Data 2/2/2021

Figures:

Figure 1- Location Map

Figure 2- Topographic Map

Figure 3- Karst Map

Figure 4- Original Site Map

Figure 5- Bio-remediation Map

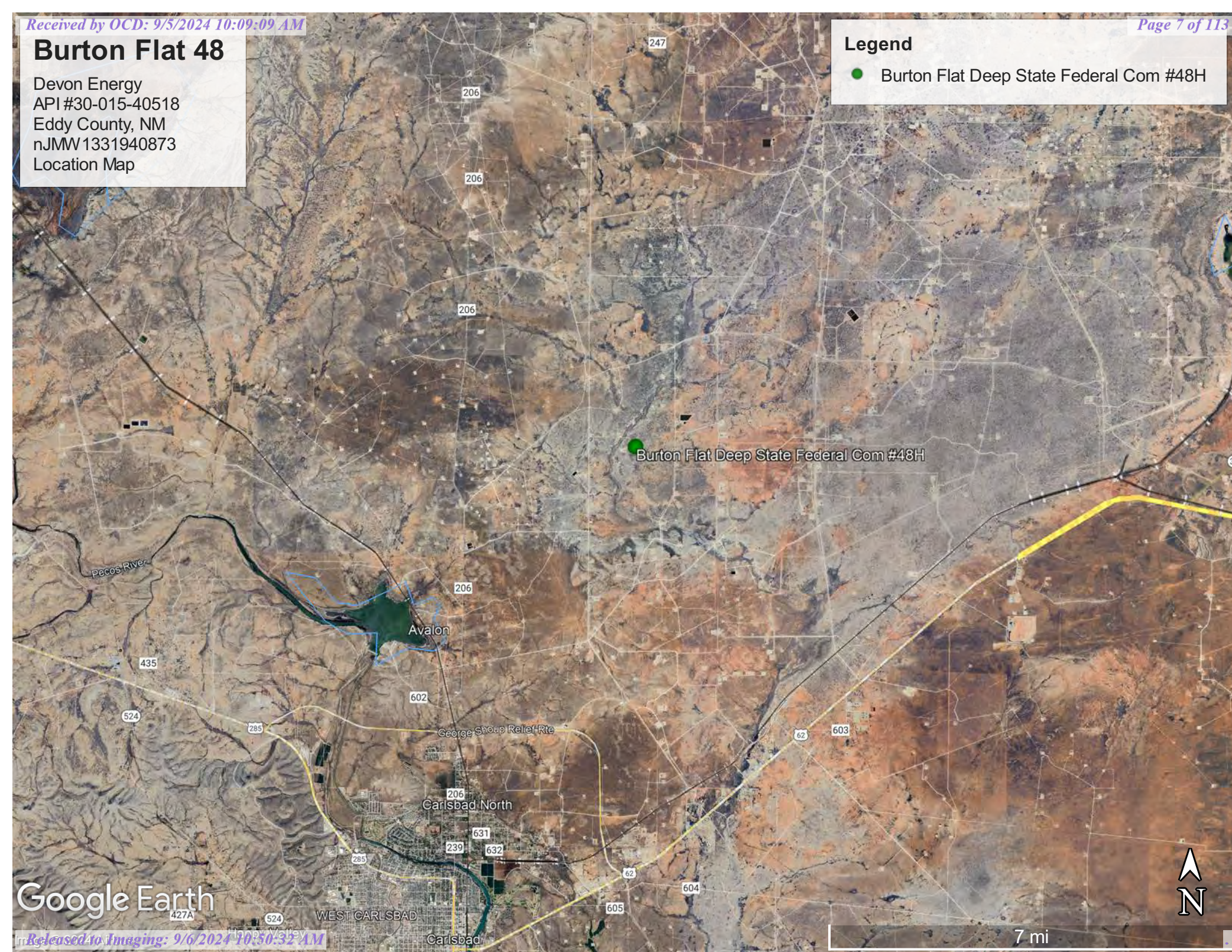
Figure 6- Confirmation Sample Map

Burton Flat 48

Devon Energy
API #30-015-40518
Eddy County, NM
nJMW1331940873
Location Map

Legend

- Burton Flat Deep State Federal Com #48H



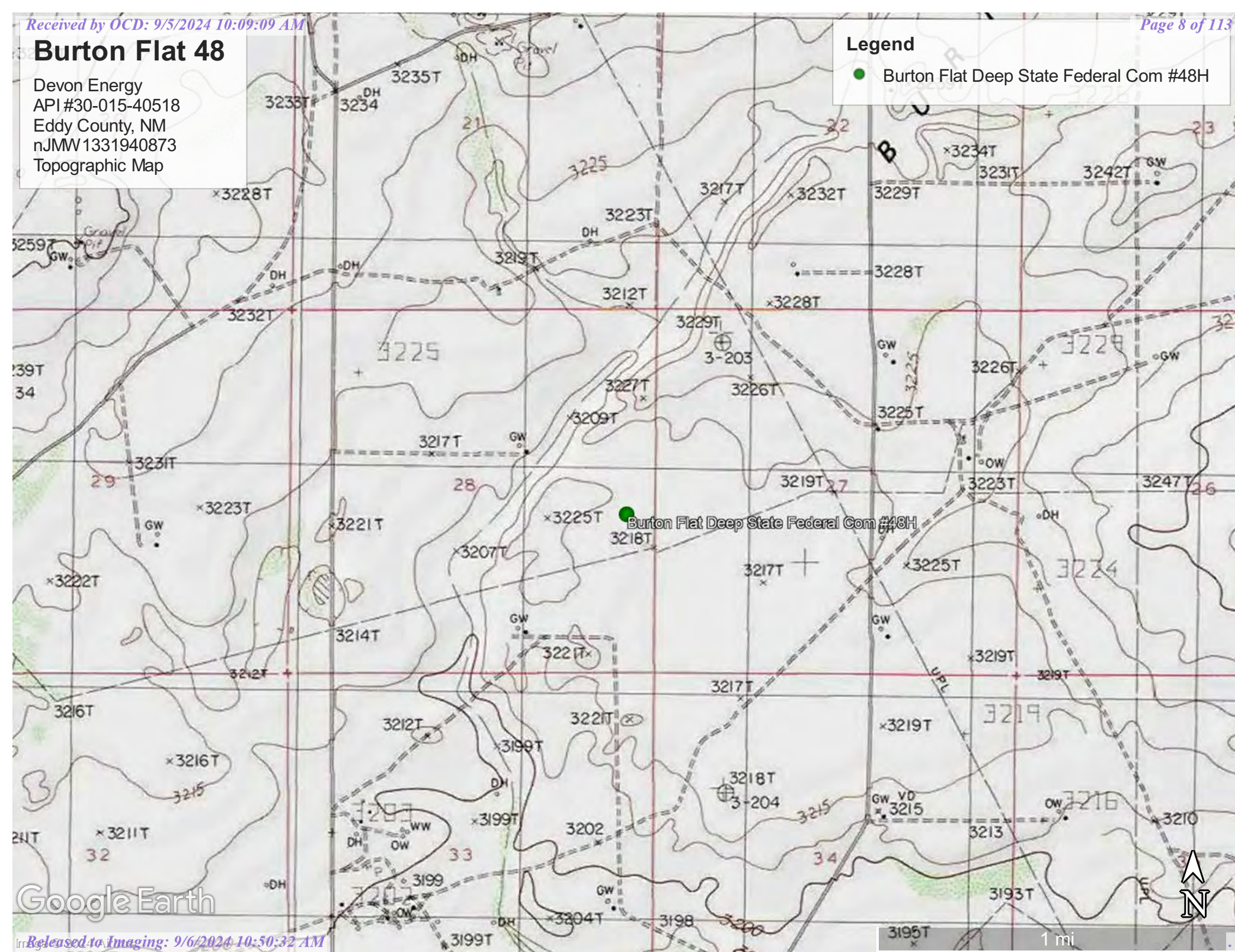
Google Earth



7 mi

Devon Energy
API #30-015-40518
Eddy County, NM
nJMW1331940873
Topographic Map




- Burton Flat Deep State Federal Com #48H



Burton Flat 48

Devon Energy
API #30-015-40518
Eddy County, NM
nJMW1331940873
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst

Burton Flat Deep State Federal Com #48H



1 mi

Google Earth

Burton Flat Deep St Fed Com 48H

Devon Energy
API #30-015-40518
Eddy County, NM
Original Site Map

Legend

- Backgrounds
- Contamination
- Estimated Spill Area
- Samples

32.5435843, -104.1755763

Burton Flat Deep St Fed Com 48H

BG-1

BG-2

BG-3

BG-4

CS-8

CS-7

CS-6

CS-5

CS-4

CS-3

CS-2

CS-1

Google Earth



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200 ft



Burton Flat Deep St Fed 48H

Devon Energy
32.5435843,-104.1755763
NJMW1331940873
Eddy County, NM
Bio-remediation Map

-  Contaminated Area
-  Soil Sample



Burton Flat 48

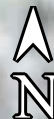
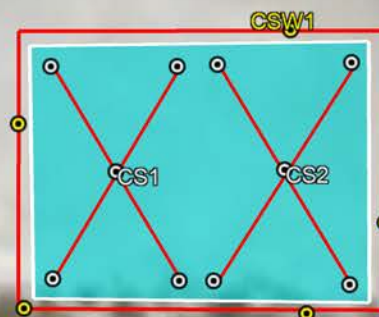
Devon Energy
API #30-015-40518
Eddy County, NM
nJMW1331940873
Confirmation Sample Map

Legend

- Confirmation base samples
- Confirmation wall sample
- Excavated area - 400 sqft

Burton Flat Deep State Federal Com #48H

32.543414, -104.175713



40 ft

Google Earth

Appendix A

Water Surveys:

- OSE
- USGS
- Surface Water Map
- Wetlands Map
- Fema Flood Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00920 POD1		CP	ED	2	4	1	33	20S	28E	576627	3599766*	1451	47	29	18
CP 00923 POD1		CP	ED	2	4	1	33	20S	28E	576627	3599766*	1451	57		
CP 00921 POD1		CP	ED	2	3	1	33	20S	28E	576223	3599763*	1705	52	30	22
CP 01714 POD3		CP	ED	4	2	2	32	20S	28E	575724	3599995	1955	160	107	53
CP 00919 POD2		CP	ED	2	1	3	33	20S	28E	576318	3599357	1962	104	40	64
CP 00919 POD1	R	CP	ED	2	1	3	33	20S	28E	576228	3599359*	2012	24		
CP 00671		CP	ED		1	3	33	20S	28E	576129	3599260*	2151	70	35	35
CP 01714 POD4		CP	ED	1	1	2	32	20S	28E	575248	3600214	2295	140	100	40
CP 00922 POD1		CP	ED	2	3	3	33	20S	28E	576233	3598956*	2348	47	27	20
CP 01589 POD1		CP	ED	1	2	1	35	20S	28E	579674	3600121	2425	109	70	39
C 04158 POD1		C	ED	3	1	4	32	20S	28E	575207	3599055	2930	137	60	77
CP 00746 POD1		CP	ED	1	3	4	32	20S	28E	575229	3598948*	2986	70	29	41

Average Depth to Water: **52 feet**

Minimum Depth: **27 feet**

Maximum Depth: **107 feet**

Record Count: 12

UTM NAD83 Radius Search (in meters):

Easting (X): 577408.27

Northing (Y): 3600989.34

Radius: 3000

*UTM location was derived from PLSS - see Help

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


6/26/24 12:49 PM

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)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00920 POD1	2	4	1	33	20S	28E	576627	3599766* 
<hr/>									
Driller License:		Driller Company:							
Driller Name:									
Drill Start Date:		Drill Finish Date:				12/31/1963		Plug Date:	
Log File Date:		PCW Rev Date:						Source:	Shallow
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:	7.00	Depth Well:				47 feet		Depth Water:	29 feet

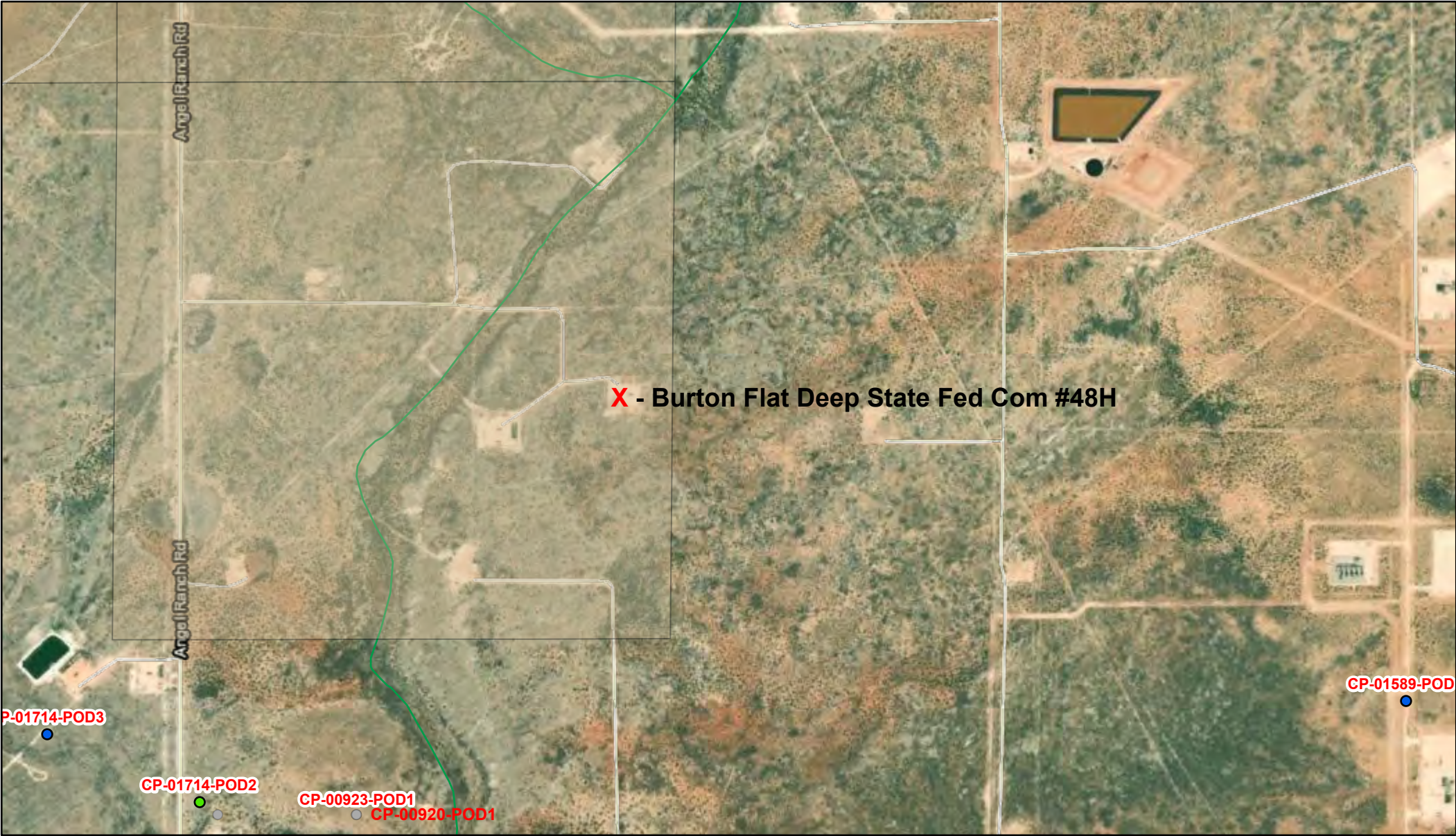
*UTM location was derived from PLSS - see Help

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.

6/26/24 12:56 PM

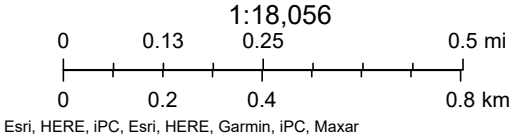
POINT OF DIVERSION SUMMARY

OSE POD Location Map



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- GIS WATERS PODs
- Active
 - Pending
- OSE District Boundary
- New Mexico State Trust Lands
- Subsurface Estate
- NHD Flowlines
- Stream River





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[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation



Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 323311104104602

Minimum number of levels = 1

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

USGS 323311104104602 20S.28E.21.43334 A

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°33'11", Longitude 104°10'46" NAD27

Land-surface elevation 3,221 feet above NAVD88

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

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

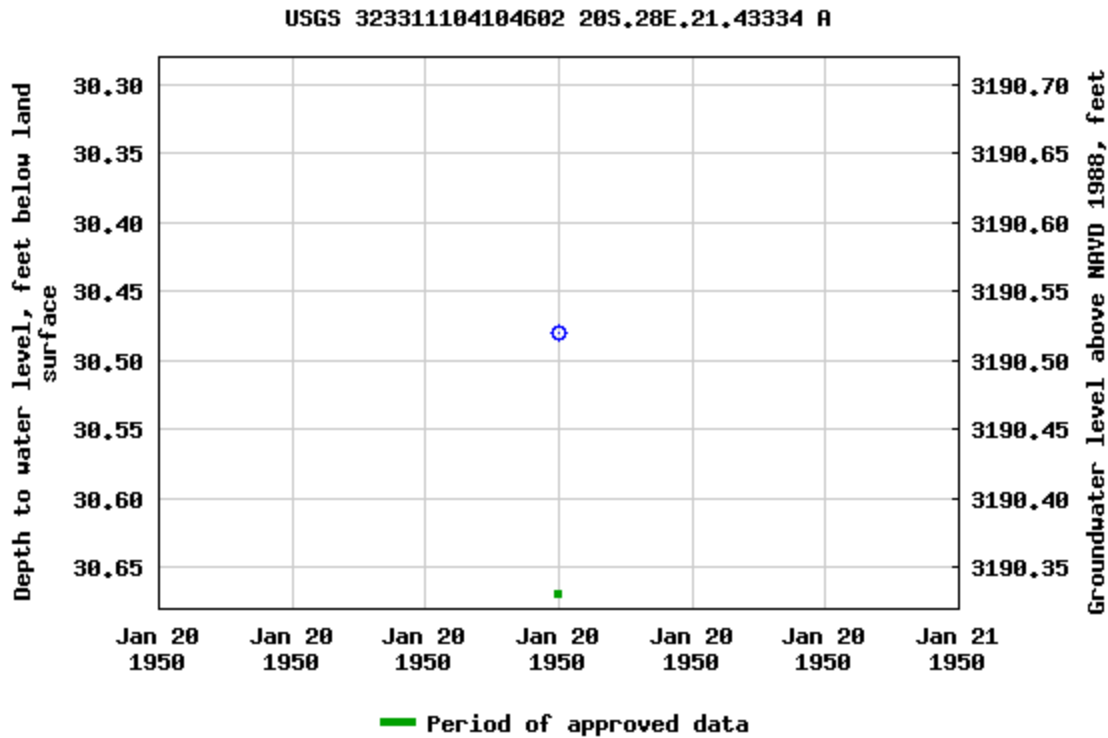
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2024-06-26 14:51:37 EDT
0.66 0.58 nadww01



National Water Information System: Mapper



Burton Flat 48

Devon Energy
API #30-015-40518
Eddy County, NM
nJMW1331940873
Surface Water Map

Legend

- 4.74 Miles
- Lake Avalon

Burton Flat Deep State Federal Com #48H

Lake Avalon

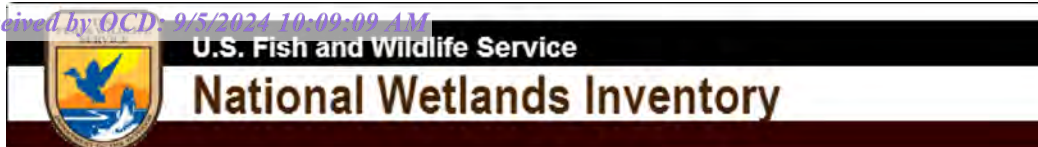
Lake Avalon

Avalon

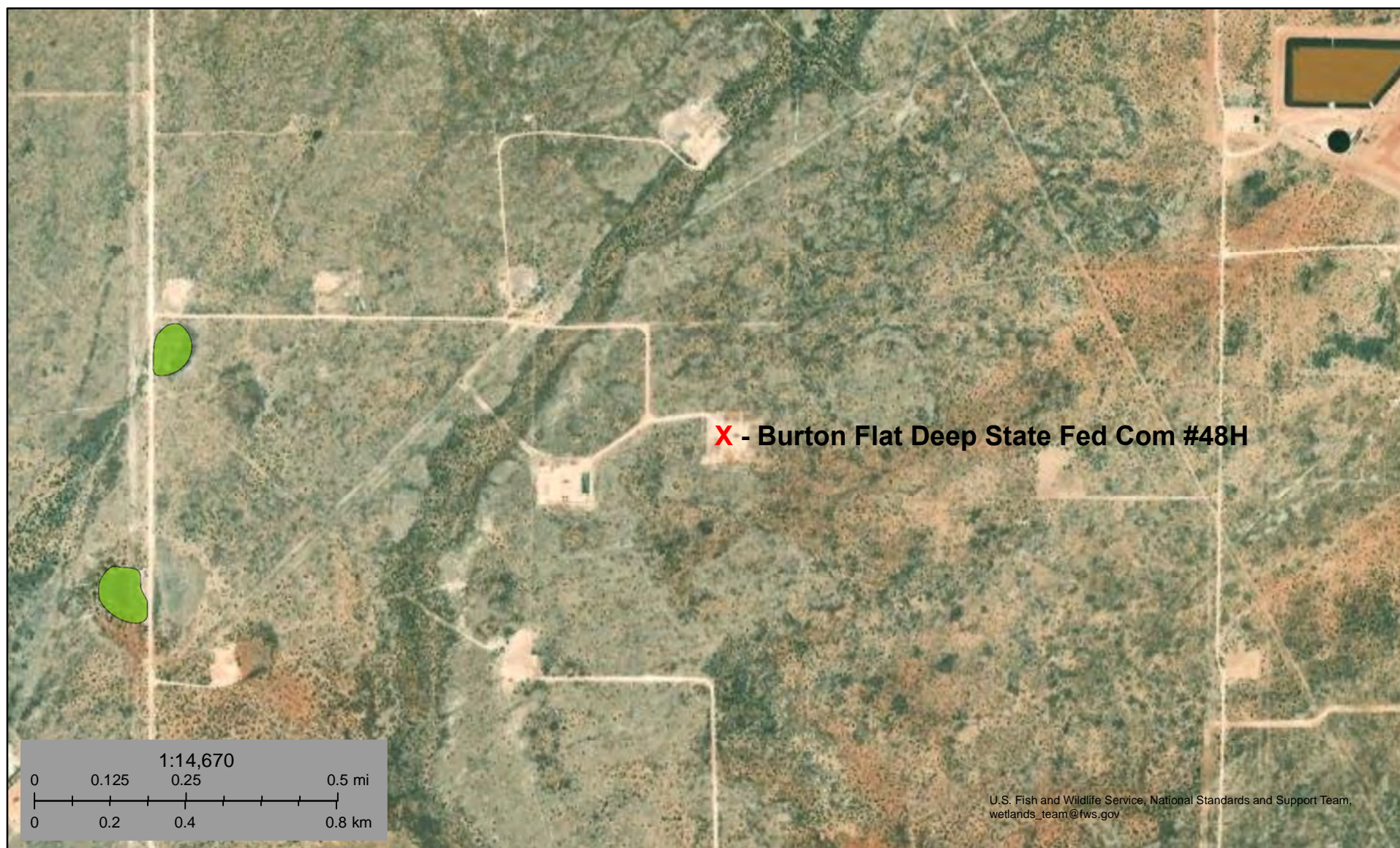


2 mi

Google Earth



Wetlands Map



June 26, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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.

National Flood Hazard Layer FIRMMette



104°10'51"W 32°32'51"N



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

1:6,000

104°10'14"W 32°32'21"N

Released to Imaging: 9/6/2024 10:30:32 AM

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/26/2024 at 3:01 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Appendix B

- Soil Survey
- Soil Map
- Geologic Unit Map

Map Unit Description: Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Eddy Area, New Mexico

GR—Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w4h

Elevation: 3,000 to 5,000 feet

Mean annual precipitation: 10 to 14 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Gypsum land: 55 percent

Reeves and similar soils: 35 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope

Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Description of Reeves

Setting

Landform: Ridges, plains, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope

Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: sandy loam

H2 - 8 to 32 inches: clay loam

Map Unit Description: Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

Gypsum, maximum content: 80 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Minor Components

Unnamed soils

Percent of map unit: 10 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

Soil Map—Eddy Area, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

6/26/2024
Page 1 of 3

Soil Map—Eddy Area, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.




Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
GR	Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded	4.2	100.0%
Totals for Area of Interest		4.2	100.0%

Burton Flat 48

Devon Energy
API #30-015-40518
Eddy County, NM
nJMW1331940873
Geologic Unit Map

Legend

-  Eolian deposits
-  Older alluvial deposits of upland plains, piedmont areas, calcic soils, eolian cover sediments of High Plains region
-  Piedmont alluvial deposits

Burton Flat Deep State Federal Com #48H



5000 ft

Google Earth

Appendix C

- 48-Hour Notification
- NMOCD Correspondence



Tom Pima Oil <tom@pimaoil.com>

FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 357736

1 message

Woodall, Dale <Dale.Woodall@dvn.com>

Wed, Jun 26, 2024 at 11:15 AM

To: Gio PimaOil <gio@pimaoil.com>, Tom Pima Oil <tom@pimaoil.com>, Lynsey Pima Oil <lynsey@pimaoil.com>, Delrae Pima Oil <delrae@pimaoil.com>

Dale Woodall

Environmental Professional**Hobbs, NM****Office: 575-748-1838****Mobile: 405-318-4697**Dale.Woodall@dvn.com**From:** OCDOnline@state.nm.us <OCDOnline@state.nm.us>**Sent:** Wednesday, June 26, 2024 10:13 AM**To:** Woodall, Dale <Dale.Woodall@dvn.com>**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 357736

To whom it may concern (c/o Dale Woodall for DEVON ENERGY PRODUCTION COMPANY, LP),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nJMW1331940873.

The sampling event is expected to take place:

When: 06/28/2024 @ 15:00**Where:** I-28-20S-28E 2310 FSL 400 FEL (32.5435829,-104.1755981)**Additional Information:** Marisa Loya (575) 416-0639**Additional Instructions:** I-28-20S-28E Lat/Long: 32.5435829, -104.1755981 From the intersection of Burton Flats Road and Angel Ranch Road in Eddy county, travel south on Angel Ranch Rd for 1 mile, turn east on lease road for 0.7 miles, turn south for 680 feet, curve east at Y for 500 feet into location.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
[1220 South St. Francis Drive](#)
Santa Fe, NM 87505

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[C-141] Release Corrective Action (C-141) Application

Submission Information

Submission ID:	28122	Districts:	Artesia
Operator:	[329999] Pima Environmental Services, LLC	Counties:	Eddy
Description:	Pima Environmental Services, LLC [329999] , BURTON FLAT 48 , nJMW1331940873		
Status:	REJECTED		
Status Date:	02/10/2023		
References (2):	30-015-40518, nJMW1331940873		

Forms

Attachments: [C-141, Scaled Site Map, Photographs, Lab Samples OR Liner Integrity, Remediation Activities](#)

Questions

This submission type does not have questions, at this time.

Comments

No comments found for this submission.

Conditions

No conditions found for this submission.

Reasons

Summary: *bhall (2/10/2023)*, Closure not approved. Provide more information on the bioremediation product utilized to remediate chloride contamination. Bioremediation must be approved by OCD. Submit a complete report by 4/14/2023.

Go Back

Appendix D

○ Photographic Documentation

PHOTOGRAPHIC LOG – nJMW1331940873

Devon Energy Production Company
Burton Flat 48

Photograph No. 1

Description: Lease Sign



Photograph No. 2

Description: West side of area looking east



Photograph No. 3

Description: East side of area looking west



PHOTOGRAPHIC LOG – nJMW1331940873

Devon Energy Production Company
Burton Flat 48

Photograph No. 4

Description: South side of area looking north



Photograph No. 5

Description: Flagging site for excavation



Photograph No. 6

Description: Flagging site for excavation



PHOTOGRAPHIC LOG – nJMW1331940873

Devon Energy Production Company
Burton Flat 48

Photograph No. 7

Description: Flagging site for excavation



Photograph No. 8

Description: Beginning excavation



Photograph No. 9

Description: Excavation progress



PHOTOGRAPHIC LOG – nJMW1331940873
Devon Energy Production Company
Burton Flat 48

Photograph No. 10

Description: Excavation progress 2



Photograph No. 11

Description: Confirmation sample collection



Photograph No. 12

Description: Final post-backfill



PHOTOGRAPHIC LOG – nJMW1331940873

Devon Energy Production Company
Burton Flat 48

Photograph No. 13

Description: Final post-backfill



Photograph No. 14

Description: Final post-backfill



Appendix E

○ Laboratory Report

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Burton Flat 48

Work Order: E407005

Job Number: 01058-0007

Received: 7/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/2/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 7/2/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Burton Flat 48
Workorder: E407005
Date Received: 7/2/2024 10:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/2/2024 10:00:00AM, under the Project Name: Burton Flat 48.

The analytical test results summarized in this report with the Project Name: Burton Flat 48 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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

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

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Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Burton Flat 48	Reported: 07/02/24 13:04
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1-1'	E407005-01A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
CS2-1'	E407005-02A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
CSW1-1'	E407005-03A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Burton Flat 48 Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 7/2/2024 1:04:22PM
---	--	---------------------------------

CS1-1'
E407005-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427022	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
Surrogate: n-Nonane	95.7 %	50-200		07/02/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427023	
Chloride	21.6	20.0	1	07/02/24	07/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Burton Flat 48	Reported: 7/2/2024 1:04:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS2-1'
E407005-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID	93.6 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.4 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427022	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
Surrogate: n-Nonane	94.3 %	50-200		07/02/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427023	
Chloride	25.3	20.0	1	07/02/24	07/02/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Burton Flat 48	Reported: 7/2/2024 1:04:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW1-1'

E407005-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID	93.1 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.0 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427022	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
Surrogate: n-Nonane	102 %	50-200		07/02/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427023	
Chloride	33.5	20.0	1	07/02/24	07/02/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Burton Flat 48	Reported: 7/2/2024 1:04:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427021-BLK1)

Prepared: 07/02/24 Analyzed: 07/02/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	70-130			

LCS (2427021-BS1)

Prepared: 07/02/24 Analyzed: 07/02/24

Benzene	4.71	0.0250	5.00		94.1	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.5	70-130			
Toluene	4.78	0.0250	5.00		95.6	70-130			
o-Xylene	4.72	0.0250	5.00		94.5	70-130			
p,m-Xylene	9.60	0.0500	10.0		96.0	70-130			
Total Xylenes	14.3	0.0250	15.0		95.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.7	70-130			

LCS Dup (2427021-BSD1)

Prepared: 07/02/24 Analyzed: 07/02/24

Benzene	4.69	0.0250	5.00		93.9	70-130	0.267	20	
Ethylbenzene	4.72	0.0250	5.00		94.3	70-130	0.162	20	
Toluene	4.76	0.0250	5.00		95.2	70-130	0.355	20	
o-Xylene	4.72	0.0250	5.00		94.3	70-130	0.141	20	
p,m-Xylene	9.59	0.0500	10.0		95.9	70-130	0.0824	20	
Total Xylenes	14.3	0.0250	15.0		95.4	70-130	0.102	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Burton Flat 48	Reported: 7/2/2024 1:04:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427021-BLK1) Prepared: 07/02/24 Analyzed: 07/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

LCS (2427021-BS2) Prepared: 07/02/24 Analyzed: 07/02/24

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			

LCS Dup (2427021-BSD2) Prepared: 07/02/24 Analyzed: 07/02/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.5	70-130	5.37	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Burton Flat 48	Reported: 7/2/2024 1:04:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427022-BLK1)					Prepared: 07/02/24 Analyzed: 07/02/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.1		50.0		90.3	50-200			

LCS (2427022-BS1)					Prepared: 07/02/24 Analyzed: 07/02/24				
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	49.6		50.0		99.3	50-200			

Matrix Spike (2427022-MS1)					Source: E407004-05		Prepared: 07/02/24 Analyzed: 07/02/24		
Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

Matrix Spike Dup (2427022-MSD1)					Source: E407004-05		Prepared: 07/02/24 Analyzed: 07/02/24		
Diesel Range Organics (C10-C28)	304	25.0	250	ND	122	38-132	2.85	20	
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Burton Flat 48	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	7/2/2024 1:04:22PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2427023-BLK1)					Prepared: 07/02/24 Analyzed: 07/02/24				
Chloride	ND	20.0							
LCS (2427023-BS1)					Prepared: 07/02/24 Analyzed: 07/02/24				
Chloride	248	20.0	250		99.3	90-110			
Matrix Spike (2427023-MS1)					Source: E407004-04		Prepared: 07/02/24 Analyzed: 07/02/24		
Chloride	305	20.0	250	50.7	102	80-120			
Matrix Spike Dup (2427023-MSD1)					Source: E407004-04		Prepared: 07/02/24 Analyzed: 07/02/24		
Chloride	304	20.0	250	50.7	101	80-120	0.363	20	

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Burton Flat 48	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	07/02/24 13:04

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





Envirotech Analytical Laboratory

Printed: 7/2/2024 10:20:18AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	07/02/24 10:00	Work Order ID:	E407005
Phone:	(575) 631-6977	Date Logged In:	07/01/24 16:03	Logged In By:	Alexa Michaels
Email:	gio@pimaoil.com	Due Date:	07/02/24 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Appendix F

Table & Lab Data 2/2/2021

2-2-21 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Devon Energy - Burton Flat Deep State Fed Com 48H								
Sample Date 2-2-21		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
BG-1	0	ND	ND	ND	ND	ND	0	ND
BG-2	0	ND	ND	ND	ND	ND	0	ND
BG-3	0	ND	ND	ND	ND	ND	0	ND
BG-4	0	ND	ND	ND	ND	ND	0	11000
S-1	0-6	ND	ND	ND	18	ND	18	ND
	1	ND	ND	ND	ND	ND	0	ND
	2	ND	ND	ND	ND	ND	0	ND
	3	ND	ND	ND	ND	ND	0	ND
S-2	0-6	ND	ND	ND	ND	ND	0	ND
	1	ND	ND	ND	ND	ND	0	ND
	2	ND	ND	ND	ND	ND	0	ND
	3	ND	ND	ND	ND	ND	0	67
S-3	0-6	ND	ND	ND	ND	ND	0	ND
	1	ND	ND	ND	ND	ND	0	ND
	2	ND	ND	ND	ND	ND	0	ND
	3	ND	ND	ND	ND	ND	0	ND
S-4	0-6	ND	ND	ND	ND	ND	0	ND
	1	ND	ND	ND	ND	ND	0	ND
	2	ND	ND	ND	ND	ND	0	ND
	3	ND	ND	ND	ND	ND	0	ND
S-5	0-6	ND	ND	ND	ND	ND	0	ND
S-6	0-6	ND	ND	ND	ND	ND	0	ND
	1	ND	ND	ND	ND	ND	0	72
	2	ND	ND	ND	ND	ND	0	ND
	3	ND	ND	ND	ND	ND	0	ND
S-7	0-6	ND	ND	ND	ND	ND	0	ND
	1	ND	ND	ND	ND	ND	0	ND
	2	ND	ND	ND	ND	ND	0	ND
	3	ND	ND	ND	ND	ND	0	ND
S-8	0-6	ND	ND	ND	ND	ND	0	ND
	1	ND	ND	ND	ND	ND	0	ND
	2	ND	ND	ND	ND	ND	0	ND
	3	ND	ND	ND	ND	ND	0	ND



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

February 12, 2021

Chris Jones

Pima Environmental Services LLC

1601 N. Turner Ste 500

Hobbs, NM 88240

TEL: (575) 631-6977

FAX:

RE: Burton Flat Deep St Fed Com 48H

OrderNo.: 2102215

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 33 sample(s) on 2/4/2021 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,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Background 1

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 9:15:00 AM

Lab ID: 2102215-001

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/5/2021 1:49:30 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/5/2021 1:49:30 PM
Surr: DNOP	19.6	70-130	S	%Rec	1	2/5/2021 1:49:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2021 12:30:40 AM
Surr: BFB	107	75.3-105	S	%Rec	1	2/10/2021 12:30:40 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/10/2021 12:30:40 AM
Toluene	ND	0.048		mg/Kg	1	2/10/2021 12:30:40 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2021 12:30:40 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/10/2021 12:30:40 AM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	2/10/2021 12:30:40 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 3:31:37 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Background 2

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 9:20:00 AM

Lab ID: 2102215-002

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/5/2021 2:13:20 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/5/2021 2:13:20 PM
Surr: DNOP	16.4	70-130	S	%Rec	1	2/5/2021 2:13:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2021 1:17:48 AM
Surr: BFB	106	75.3-105	S	%Rec	1	2/10/2021 1:17:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/10/2021 1:17:48 AM
Toluene	ND	0.048		mg/Kg	1	2/10/2021 1:17:48 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2021 1:17:48 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/10/2021 1:17:48 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	2/10/2021 1:17:48 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 4:08:50 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Background 3

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 9:25:00 AM

Lab ID: 2102215-003

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/5/2021 2:37:13 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/5/2021 2:37:13 PM
Surr: DNOP	27.6	70-130	S	%Rec	1	2/5/2021 2:37:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2021 1:41:26 AM
Surr: BFB	105	75.3-105	S	%Rec	1	2/10/2021 1:41:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 1:41:26 AM
Toluene	ND	0.049		mg/Kg	1	2/10/2021 1:41:26 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2021 1:41:26 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/10/2021 1:41:26 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	2/10/2021 1:41:26 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 3:13:39 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Background 4

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 9:30:00 AM

Lab ID: 2102215-004

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/5/2021 3:01:09 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/5/2021 3:01:09 PM
Surr: DNOP	28.6	70-130	S	%Rec	1	2/5/2021 3:01:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2021 2:04:48 AM
Surr: BFB	107	75.3-105	S	%Rec	1	2/10/2021 2:04:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/10/2021 2:04:48 AM
Toluene	ND	0.049		mg/Kg	1	2/10/2021 2:04:48 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2021 2:04:48 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/10/2021 2:04:48 AM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	2/10/2021 2:04:48 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	11000	610		mg/Kg	200	2/10/2021 4:09:01 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S1-0"-6"

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 9:35:00 AM

Lab ID: 2102215-005

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	18	9.7		mg/Kg	1	2/5/2021 3:25:02 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/5/2021 3:25:02 PM
Surr: DNOP	35.8	70-130	S	%Rec	1	2/5/2021 3:25:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2021 2:28:18 AM
Surr: BFB	105	75.3-105	S	%Rec	1	2/10/2021 2:28:18 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 2:28:18 AM
Toluene	ND	0.049		mg/Kg	1	2/10/2021 2:28:18 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2021 2:28:18 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/10/2021 2:28:18 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	2/10/2021 2:28:18 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 4:03:19 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S1-1'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 9:40:00 AM

Lab ID: 2102215-006

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/5/2021 3:48:50 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/5/2021 3:48:50 PM
Surr: DNOP	40.4	70-130	S	%Rec	1	2/5/2021 3:48:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2021 2:51:50 AM
Surr: BFB	105	75.3-105		%Rec	1	2/10/2021 2:51:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 2:51:50 AM
Toluene	ND	0.049		mg/Kg	1	2/10/2021 2:51:50 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2021 2:51:50 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/10/2021 2:51:50 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	2/10/2021 2:51:50 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 4:15:44 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S1-2'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 9:45:00 AM

Lab ID: 2102215-007

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/5/2021 4:12:42 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/5/2021 4:12:42 PM
Surr: DNOP	39.4	70-130	S	%Rec	1	2/5/2021 4:12:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2021 3:15:24 AM
Surr: BFB	106	75.3-105	S	%Rec	1	2/10/2021 3:15:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 3:15:24 AM
Toluene	ND	0.050		mg/Kg	1	2/10/2021 3:15:24 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/10/2021 3:15:24 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/10/2021 3:15:24 AM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	2/10/2021 3:15:24 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	59		mg/Kg	20	2/9/2021 4:28:08 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S1-3'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 9:50:00 AM

Lab ID: 2102215-008

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/5/2021 4:36:37 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/5/2021 4:36:37 PM
Surr: DNOP	42.0	70-130	S	%Rec	1	2/5/2021 4:36:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2021 3:38:57 AM
Surr: BFB	108	75.3-105	S	%Rec	1	2/10/2021 3:38:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 3:38:57 AM
Toluene	ND	0.050		mg/Kg	1	2/10/2021 3:38:57 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/10/2021 3:38:57 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/10/2021 3:38:57 AM
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	2/10/2021 3:38:57 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	59		mg/Kg	20	2/9/2021 4:40:33 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S2-0"-6"

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 9:55:00 AM

Lab ID: 2102215-009

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/5/2021 5:00:27 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/5/2021 5:00:27 PM
Surr: DNOP	30.6	70-130	S	%Rec	1	2/5/2021 5:00:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2021 4:02:33 AM
Surr: BFB	105	75.3-105		%Rec	1	2/10/2021 4:02:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/10/2021 4:02:33 AM
Toluene	ND	0.048		mg/Kg	1	2/10/2021 4:02:33 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2021 4:02:33 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/10/2021 4:02:33 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	2/10/2021 4:02:33 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 5:10:53 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S2-1'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 10:00:00 AM

Lab ID: 2102215-010

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/5/2021 11:57:51 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/5/2021 11:57:51 AM
Surr: DNOP	84.8	70-130		%Rec	1	2/5/2021 11:57:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2021 9:46:56 AM
Surr: BFB	98.0	75.3-105		%Rec	1	2/10/2021 9:46:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 9:46:56 AM
Toluene	ND	0.050		mg/Kg	1	2/10/2021 9:46:56 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/10/2021 9:46:56 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/10/2021 9:46:56 AM
Surr: 4-Bromofluorobenzene	96.6	80-120		%Rec	1	2/10/2021 9:46:56 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 5:23:17 PM

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

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2102215
Date Reported: 2/12/2021

CLIENT: Pima Environmental Services LLC Client Sample ID: S2-2'
Project: Burton Flat Deep St Fed Com 48H Collection Date: 2/2/2021 10:05:00 AM
Lab ID: 2102215-011 Matrix: SOIL Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/5/2021 1:09:35 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/5/2021 1:09:35 PM
Surr: DNOP	72.8	70-130		%Rec	1	2/5/2021 1:09:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2021 10:57:50 AM
Surr: BFB	106	75.3-105	S	%Rec	1	2/10/2021 10:57:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/10/2021 10:57:50 AM
Toluene	ND	0.048		mg/Kg	1	2/10/2021 10:57:50 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2021 10:57:50 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/10/2021 10:57:50 AM
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	2/10/2021 10:57:50 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 6:00:31 PM

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

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

Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S2-3'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 10:10:00 AM

Lab ID: 2102215-012

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/5/2021 1:33:44 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/5/2021 1:33:44 PM
Surr: DNOP	70.9	70-130		%Rec	1	2/5/2021 1:33:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/10/2021 12:08:44 PM
Surr: BFB	102	75.3-105		%Rec	1	2/10/2021 12:08:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	2/10/2021 12:08:44 PM
Toluene	ND	0.047		mg/Kg	1	2/10/2021 12:08:44 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/10/2021 12:08:44 PM
Xylenes, Total	ND	0.093		mg/Kg	1	2/10/2021 12:08:44 PM
Surr: 4-Bromofluorobenzene	99.1	80-120		%Rec	1	2/10/2021 12:08:44 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	67	59		mg/Kg	20	2/9/2021 6:12:56 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S3-0"-6"

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 10:15:00 AM

Lab ID: 2102215-013

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/5/2021 1:57:41 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/5/2021 1:57:41 PM
Surr: DNOP	61.6	70-130	S	%Rec	1	2/5/2021 1:57:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	2/10/2021 12:32:29 PM
Surr: BFB	100	75.3-105		%Rec	5	2/10/2021 12:32:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	2/10/2021 12:32:29 PM
Toluene	ND	0.25		mg/Kg	5	2/10/2021 12:32:29 PM
Ethylbenzene	ND	0.25		mg/Kg	5	2/10/2021 12:32:29 PM
Xylenes, Total	ND	0.50		mg/Kg	5	2/10/2021 12:32:29 PM
Surr: 4-Bromofluorobenzene	96.0	80-120		%Rec	5	2/10/2021 12:32:29 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 6:25:21 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S3-1'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 10:20:00 AM

Lab ID: 2102215-014

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/5/2021 2:21:47 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/5/2021 2:21:47 PM
Surr: DNOP	45.2	70-130	S	%Rec	1	2/5/2021 2:21:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2021 12:56:09 PM
Surr: BFB	99.0	75.3-105		%Rec	1	2/10/2021 12:56:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 12:56:09 PM
Toluene	ND	0.050		mg/Kg	1	2/10/2021 12:56:09 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/10/2021 12:56:09 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/10/2021 12:56:09 PM
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	2/10/2021 12:56:09 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 6:37:45 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S3-2'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 10:25:00 AM

Lab ID: 2102215-015

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/5/2021 2:45:48 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/5/2021 2:45:48 PM
Surr: DNOP	34.4	70-130	S	%Rec	1	2/5/2021 2:45:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2021 1:19:42 PM
Surr: BFB	101	75.3-105		%Rec	1	2/10/2021 1:19:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 1:19:42 PM
Toluene	ND	0.049		mg/Kg	1	2/10/2021 1:19:42 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2021 1:19:42 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/10/2021 1:19:42 PM
Surr: 4-Bromofluorobenzene	98.2	80-120		%Rec	1	2/10/2021 1:19:42 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 6:50:09 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S3-3'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 10:30:00 AM

Lab ID: 2102215-016

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/5/2021 3:09:56 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/5/2021 3:09:56 PM
Surr: DNOP	33.1	70-130	S	%Rec	1	2/5/2021 3:09:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2021 1:43:14 PM
Surr: BFB	103	75.3-105		%Rec	1	2/10/2021 1:43:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 1:43:14 PM
Toluene	ND	0.050		mg/Kg	1	2/10/2021 1:43:14 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/10/2021 1:43:14 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/10/2021 1:43:14 PM
Surr: 4-Bromofluorobenzene	97.1	80-120		%Rec	1	2/10/2021 1:43:14 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 7:02:34 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S4-0"-6"

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 10:35:00 AM

Lab ID: 2102215-017

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/5/2021 3:33:58 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/5/2021 3:33:58 PM
Surr: DNOP	32.0	70-130	S	%Rec	1	2/5/2021 3:33:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2021 2:06:41 PM
Surr: BFB	99.3	75.3-105		%Rec	1	2/10/2021 2:06:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 2:06:41 PM
Toluene	ND	0.050		mg/Kg	1	2/10/2021 2:06:41 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/10/2021 2:06:41 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/10/2021 2:06:41 PM
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	1	2/10/2021 2:06:41 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 7:14:59 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S4-1'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 10:40:00 AM

Lab ID: 2102215-018

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/5/2021 3:58:06 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/5/2021 3:58:06 PM
Surr: DNOP	21.6	70-130	S	%Rec	1	2/5/2021 3:58:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/10/2021 2:30:06 PM
Surr: BFB	100	75.3-105		%Rec	1	2/10/2021 2:30:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/10/2021 2:30:06 PM
Toluene	ND	0.047		mg/Kg	1	2/10/2021 2:30:06 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/10/2021 2:30:06 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/10/2021 2:30:06 PM
Surr: 4-Bromofluorobenzene	97.7	80-120		%Rec	1	2/10/2021 2:30:06 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 7:27:23 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S4-2'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 10:45:00 AM

Lab ID: 2102215-019

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/5/2021 4:22:09 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/5/2021 4:22:09 PM
Surr: DNOP	19.3	70-130	S	%Rec	1	2/5/2021 4:22:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2021 3:41:12 PM
Surr: BFB	99.2	75.3-105		%Rec	1	2/10/2021 3:41:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 3:41:12 PM
Toluene	ND	0.050		mg/Kg	1	2/10/2021 3:41:12 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/10/2021 3:41:12 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/10/2021 3:41:12 PM
Surr: 4-Bromofluorobenzene	96.1	80-120		%Rec	1	2/10/2021 3:41:12 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 7:39:48 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S4-3'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 10:50:00 AM

Lab ID: 2102215-020

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/5/2021 4:46:31 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/5/2021 4:46:31 PM
Surr: DNOP	12.2	70-130	S	%Rec	1	2/5/2021 4:46:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2021 4:04:55 PM
Surr: BFB	99.0	75.3-105		%Rec	1	2/10/2021 4:04:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 4:04:55 PM
Toluene	ND	0.049		mg/Kg	1	2/10/2021 4:04:55 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2021 4:04:55 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/10/2021 4:04:55 PM
Surr: 4-Bromofluorobenzene	95.7	80-120		%Rec	1	2/10/2021 4:04:55 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 7:52:12 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S5-0"-6"

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 10:55:00 AM

Lab ID: 2102215-021

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/5/2021 5:10:49 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/5/2021 5:10:49 PM
Surr: DNOP	11.6	70-130	S	%Rec	1	2/5/2021 5:10:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2021 4:28:39 PM
Surr: BFB	99.5	75.3-105		%Rec	1	2/10/2021 4:28:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 4:28:39 PM
Toluene	ND	0.050		mg/Kg	1	2/10/2021 4:28:39 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/10/2021 4:28:39 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/10/2021 4:28:39 PM
Surr: 4-Bromofluorobenzene	96.0	80-120		%Rec	1	2/10/2021 4:28:39 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 8:29:25 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S6-0"-6"

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 11:00:00 AM

Lab ID: 2102215-022

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/5/2021 5:34:57 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/5/2021 5:34:57 PM
Surr: DNOP	8.73	70-130	S	%Rec	1	2/5/2021 5:34:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2021 4:52:17 PM
Surr: BFB	100	75.3-105		%Rec	1	2/10/2021 4:52:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/10/2021 4:52:17 PM
Toluene	ND	0.048		mg/Kg	1	2/10/2021 4:52:17 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2021 4:52:17 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/10/2021 4:52:17 PM
Surr: 4-Bromofluorobenzene	98.1	80-120		%Rec	1	2/10/2021 4:52:17 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 8:41:50 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S6-1'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 11:05:00 AM

Lab ID: 2102215-023

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/5/2021 5:58:55 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/5/2021 5:58:55 PM
Surr: DNOP	7.51	70-130	S	%Rec	1	2/5/2021 5:58:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2021 5:15:42 PM
Surr: BFB	99.2	75.3-105		%Rec	1	2/10/2021 5:15:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 5:15:42 PM
Toluene	ND	0.049		mg/Kg	1	2/10/2021 5:15:42 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2021 5:15:42 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/10/2021 5:15:42 PM
Surr: 4-Bromofluorobenzene	95.8	80-120		%Rec	1	2/10/2021 5:15:42 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	72	60		mg/Kg	20	2/9/2021 8:54:14 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S6-2'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 11:10:00 AM

Lab ID: 2102215-024

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/5/2021 6:23:00 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/5/2021 6:23:00 PM
Surr: DNOP	7.28	70-130	S	%Rec	1	2/5/2021 6:23:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2021 5:39:15 PM
Surr: BFB	99.5	75.3-105		%Rec	1	2/10/2021 5:39:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 5:39:15 PM
Toluene	ND	0.050		mg/Kg	1	2/10/2021 5:39:15 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/10/2021 5:39:15 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/10/2021 5:39:15 PM
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	2/10/2021 5:39:15 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 9:06:39 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S6-3'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 11:15:00 AM

Lab ID: 2102215-025

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/5/2021 6:46:58 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/5/2021 6:46:58 PM
Surr: DNOP	5.76	70-130	S	%Rec	1	2/5/2021 6:46:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/10/2021 6:02:54 PM
Surr: BFB	97.2	75.3-105		%Rec	1	2/10/2021 6:02:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/10/2021 6:02:54 PM
Toluene	ND	0.047		mg/Kg	1	2/10/2021 6:02:54 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/10/2021 6:02:54 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/10/2021 6:02:54 PM
Surr: 4-Bromofluorobenzene	94.8	80-120		%Rec	1	2/10/2021 6:02:54 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 9:19:03 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S7-0"-6"

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 11:20:00 AM

Lab ID: 2102215-026

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	2/5/2021 7:11:03 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/5/2021 7:11:03 PM
Surr: DNOP	5.80	70-130	S	%Rec	1	2/5/2021 7:11:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2021 6:26:30 PM
Surr: BFB	98.3	75.3-105		%Rec	1	2/10/2021 6:26:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 6:26:30 PM
Toluene	ND	0.049		mg/Kg	1	2/10/2021 6:26:30 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2021 6:26:30 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/10/2021 6:26:30 PM
Surr: 4-Bromofluorobenzene	95.8	80-120		%Rec	1	2/10/2021 6:26:30 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 9:31:28 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S7-1'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 11:25:00 AM

Lab ID: 2102215-027

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/5/2021 7:34:55 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/5/2021 7:34:55 PM
Surr: DNOP	9.37	70-130	S	%Rec	1	2/5/2021 7:34:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2021 6:50:06 PM
Surr: BFB	98.4	75.3-105		%Rec	1	2/10/2021 6:50:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 6:50:06 PM
Toluene	ND	0.049		mg/Kg	1	2/10/2021 6:50:06 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2021 6:50:06 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/10/2021 6:50:06 PM
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	2/10/2021 6:50:06 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/9/2021 9:43:52 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S7-2'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 11:30:00 AM

Lab ID: 2102215-028

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/5/2021 7:58:55 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/5/2021 7:58:55 PM
Surr: DNOP	13.0	70-130	S	%Rec	1	2/5/2021 7:58:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2021 7:13:47 PM
Surr: BFB	98.4	75.3-105		%Rec	1	2/10/2021 7:13:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/10/2021 7:13:47 PM
Toluene	ND	0.048		mg/Kg	1	2/10/2021 7:13:47 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2021 7:13:47 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/10/2021 7:13:47 PM
Surr: 4-Bromofluorobenzene	95.7	80-120		%Rec	1	2/10/2021 7:13:47 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	59		mg/Kg	20	2/9/2021 10:21:07 PM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S7-3'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 11:35:00 AM

Lab ID: 2102215-029

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/5/2021 8:22:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/5/2021 8:22:45 PM
Surr: DNOP	11.8	70-130	S	%Rec	1	2/5/2021 8:22:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2021 8:24:30 PM
Surr: BFB	97.9	75.3-105		%Rec	1	2/10/2021 8:24:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/10/2021 8:24:30 PM
Toluene	ND	0.048		mg/Kg	1	2/10/2021 8:24:30 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2021 8:24:30 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/10/2021 8:24:30 PM
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	1	2/10/2021 8:24:30 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/10/2021 12:37:38 AM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S8-0"-6"

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 11:40:00 AM

Lab ID: 2102215-030

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/5/2021 9:58:20 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/5/2021 9:58:20 PM
Surr: DNOP	4.95	70-130	S	%Rec	1	2/5/2021 9:58:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/8/2021 11:22:59 PM
Surr: BFB	101	75.3-105		%Rec	1	2/8/2021 11:22:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/8/2021 11:22:59 PM
Toluene	ND	0.048		mg/Kg	1	2/8/2021 11:22:59 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/8/2021 11:22:59 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/8/2021 11:22:59 PM
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	2/8/2021 11:22:59 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/10/2021 1:39:40 AM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S8-1'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 11:45:00 AM

Lab ID: 2102215-031

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/5/2021 11:10:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/5/2021 11:10:16 PM
Surr: DNOP	0	70-130	S	%Rec	1	2/5/2021 11:10:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/9/2021 12:33:37 AM
Surr: BFB	102	75.3-105		%Rec	1	2/9/2021 12:33:37 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/9/2021 12:33:37 AM
Toluene	ND	0.048		mg/Kg	1	2/9/2021 12:33:37 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/9/2021 12:33:37 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/9/2021 12:33:37 AM
Surr: 4-Bromofluorobenzene	99.9	80-120		%Rec	1	2/9/2021 12:33:37 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	61		mg/Kg	20	2/10/2021 1:52:04 AM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S8-2'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 11:50:00 AM

Lab ID: 2102215-032

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/5/2021 11:34:02 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/5/2021 11:34:02 PM
Surr: DNOP	5.39	70-130	S	%Rec	1	2/5/2021 11:34:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2021 8:48:12 PM
Surr: BFB	98.2	75.3-105		%Rec	1	2/10/2021 8:48:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/10/2021 8:48:12 PM
Toluene	ND	0.049		mg/Kg	1	2/10/2021 8:48:12 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2021 8:48:12 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/10/2021 8:48:12 PM
Surr: 4-Bromofluorobenzene	95.7	80-120		%Rec	1	2/10/2021 8:48:12 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/10/2021 2:04:28 AM

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

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

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Analytical Report

Lab Order 2102215

Date Reported: 2/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S8-3'

Project: Burton Flat Deep St Fed Com 48H

Collection Date: 2/2/2021 11:55:00 AM

Lab ID: 2102215-033

Matrix: SOIL

Received Date: 2/4/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/5/2021 11:57:58 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/5/2021 11:57:58 PM
Surr: DNOP	4.55	70-130	S	%Rec	1	2/5/2021 11:57:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2021 9:11:50 PM
Surr: BFB	99.4	75.3-105		%Rec	1	2/10/2021 9:11:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/10/2021 9:11:50 PM
Toluene	ND	0.049		mg/Kg	1	2/10/2021 9:11:50 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2021 9:11:50 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/10/2021 9:11:50 PM
Surr: 4-Bromofluorobenzene	96.6	80-120		%Rec	1	2/10/2021 9:11:50 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/10/2021 2:16:53 AM

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102215

12-Feb-21

Client: Pima Environmental Services LLC**Project:** Burton Flat Deep St Fed Com 48H

Sample ID: MB-57997	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 57997	RunNo: 75154								
Prep Date: 2/9/2021	Analysis Date: 2/9/2021	SeqNo: 2654410 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-57997	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 57997	RunNo: 75154								
Prep Date: 2/9/2021	Analysis Date: 2/9/2021	SeqNo: 2654411 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.0	90	110			

Sample ID: MB-58014	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 58014	RunNo: 75154								
Prep Date: 2/9/2021	Analysis Date: 2/9/2021	SeqNo: 2654440 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-58014	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 58014	RunNo: 75154								
Prep Date: 2/9/2021	Analysis Date: 2/9/2021	SeqNo: 2654441 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.0	90	110			

Sample ID: MB-58015	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 58015	RunNo: 75154								
Prep Date: 2/9/2021	Analysis Date: 2/9/2021	SeqNo: 2654472 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-58015	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 58015	RunNo: 75154								
Prep Date: 2/9/2021	Analysis Date: 2/9/2021	SeqNo: 2654473 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.7	90	110			

Qualifiers:

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

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

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2102215
12-Feb-21

Client: Pima Environmental Services LLC
Project: Burton Flat Deep St Fed Com 48H

Sample ID: MB-57998	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 57998	RunNo: 75158
Prep Date: 2/9/2021	Analysis Date: 2/9/2021	SeqNo: 2654773 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-57998	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 57998	RunNo: 75158
Prep Date: 2/9/2021	Analysis Date: 2/9/2021	SeqNo: 2654774 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.6 90 110

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2102215

12-Feb-21

Client: Pima Environmental Services LLC**Project:** Burton Flat Deep St Fed Com 48H

Sample ID: MB-57918	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 57918	RunNo: 75091								
Prep Date: 2/4/2021	Analysis Date: 2/5/2021	SeqNo: 2650944 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	8.7		10.00		87.3	70	130			

Sample ID: LCS-57918	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 57918	RunNo: 75091								
Prep Date: 2/4/2021	Analysis Date: 2/5/2021	SeqNo: 2650945 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.8	68.9	141			
Surr: DNOP	4.2		5.000		84.5	70	130			

Sample ID: MB-57925	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 57925	RunNo: 75096								
Prep Date: 2/4/2021	Analysis Date: 2/5/2021	SeqNo: 2651255 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		97.7	70	130			

Sample ID: LCS-57925	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 57925	RunNo: 75096								
Prep Date: 2/4/2021	Analysis Date: 2/5/2021	SeqNo: 2651257 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.8	68.9	141			
Surr: DNOP	4.7		5.000		93.1	70	130			

Sample ID: 2102215-010AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S2-1'	Batch ID: 57925	RunNo: 75096								
Prep Date: 2/4/2021	Analysis Date: 2/5/2021	SeqNo: 2652314 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.3	46.73	0	97.9	15	184			
Surr: DNOP	3.3		4.673		70.0	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102215

12-Feb-21

Client: Pima Environmental Services LLC

Project: Burton Flat Deep St Fed Com 48H

Sample ID: 2102215-030AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: S8-0"-6"	Batch ID: 57928	RunNo: 75096									
Prep Date: 2/4/2021	Analysis Date: 2/5/2021	SeqNo: 2652315 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	43	9.5	47.62	0	91.3	15	184				
Surr: DNOP	0		4.762		0	70	130			S	

Sample ID: 2102215-010AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: S2-1'	Batch ID: 57925	RunNo: 75096									
Prep Date: 2/4/2021	Analysis Date: 2/5/2021	SeqNo: 2652316 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	47	9.4	47.08	0	99.7	15	184	2.62	23.9		
Surr: DNOP	3.2		4.708		66.9	70	130	0	0	S	

Sample ID: 2102215-030AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: S8-0"-6"	Batch ID: 57928	RunNo: 75096									
Prep Date: 2/4/2021	Analysis Date: 2/5/2021	SeqNo: 2652317 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	61	9.5	47.39	0	129	15	184	33.6	23.9	R	
Surr: DNOP	0		4.739		0	70	130	0	0	S	

Sample ID: MB-57928	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batch ID: 57928	RunNo: 75096									
Prep Date: 2/4/2021	Analysis Date: 2/5/2021	SeqNo: 2652318 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	1.4		10.00		14.4	70	130			S	

Sample ID: LCS-57928	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 57928	RunNo: 75096									
Prep Date: 2/4/2021	Analysis Date: 2/5/2021	SeqNo: 2652319 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	62	10	50.00	0	124	68.9	141				
Surr: DNOP	0.17		5.000		3.44	70	130			S	

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2102215

12-Feb-21

Client: Pima Environmental Services LLC**Project:** Burton Flat Deep St Fed Com 48H

Sample ID: mb-57927	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 57927			RunNo: 75139						
Prep Date: 2/4/2021	Analysis Date: 2/8/2021			SeqNo: 2652727		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	75.3	105			

Sample ID: lcs-57927	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 57927			RunNo: 75139						
Prep Date: 2/4/2021	Analysis Date: 2/8/2021			SeqNo: 2652728		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	80	120			
Surr: BFB	1100		1000		113	75.3	105			S

Sample ID: 2102215-030ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: S8-0"-6"	Batch ID: 57927			RunNo: 75139						
Prep Date: 2/4/2021	Analysis Date: 2/8/2021			SeqNo: 2652730		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.81	0	99.2	61.3	114			
Surr: BFB	1100		952.4		115	75.3	105			S

Sample ID: 2102215-030amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: S8-0"-6"	Batch ID: 57927			RunNo: 75139						
Prep Date: 2/4/2021	Analysis Date: 2/9/2021			SeqNo: 2652731		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.80	0	95.6	61.3	114	0.345	20	
Surr: BFB	1100		992.1		114	75.3	105	0	0	S

Sample ID: mb-57917	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 57917			RunNo: 75165						
Prep Date: 2/4/2021	Analysis Date: 2/9/2021			SeqNo: 2654244		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	75.3	105			

Sample ID: lcs-57917	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 57917			RunNo: 75165						
Prep Date: 2/4/2021	Analysis Date: 2/9/2021			SeqNo: 2654245		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2102215

12-Feb-21

Client: Pima Environmental Services LLC**Project:** Burton Flat Deep St Fed Com 48H

Sample ID: lcs-57917	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 57917			RunNo: 75165						
Prep Date: 2/4/2021	Analysis Date: 2/9/2021			SeqNo: 2654245		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	80	120			
Surr: BFB	1200		1000		116	75.3	105			S

Sample ID: mb-57923	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 57923			RunNo: 75212						
Prep Date: 2/4/2021	Analysis Date: 2/10/2021			SeqNo: 2655713		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	75.3	105			

Sample ID: lcs-57923	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 57923			RunNo: 75212						
Prep Date: 2/4/2021	Analysis Date: 2/10/2021			SeqNo: 2655714		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	80	120			
Surr: BFB	1100		1000		111	75.3	105			S

Sample ID: 2102215-010ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: S2-1'	Batch ID: 57923			RunNo: 75212						
Prep Date: 2/4/2021	Analysis Date: 2/10/2021			SeqNo: 2655716		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.93	0	98.5	61.3	114			
Surr: BFB	1100		997.0		111	75.3	105			S

Sample ID: 2102215-010amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: S2-1'	Batch ID: 57923			RunNo: 75212						
Prep Date: 2/4/2021	Analysis Date: 2/10/2021			SeqNo: 2655717		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.88	0	96.7	61.3	114	2.08	20	
Surr: BFB	1100		995.0		113	75.3	105	0	0	S

Sample ID: mb-57946	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 57946			RunNo: 75212						
Prep Date: 2/5/2021	Analysis Date: 2/11/2021			SeqNo: 2655747		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102215

12-Feb-21

Client: Pima Environmental Services LLC

Project: Burton Flat Deep St Fed Com 48H

Sample ID: mb-57946		SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS		Batch ID: 57946			RunNo: 75212					
Prep Date: 2/5/2021		Analysis Date: 2/11/2021			SeqNo: 2655747		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		1000		97.8	75.3	105			

Sample ID: lcs-57946		SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS		Batch ID: 57946			RunNo: 75212					
Prep Date: 2/5/2021		Analysis Date: 2/11/2021			SeqNo: 2655748		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	75.3	105			S

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102215

12-Feb-21

Client: Pima Environmental Services LLC

Project: Burton Flat Deep St Fed Com 48H

Sample ID: mb-57927	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 57927	RunNo: 75139								
Prep Date: 2/4/2021	Analysis Date: 2/8/2021	SeqNo: 2652769			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	80	120			

Sample ID: LCS-57927	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 57927	RunNo: 75139								
Prep Date: 2/4/2021	Analysis Date: 2/8/2021	SeqNo: 2652770			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.1	80	120			
Toluene	0.98	0.050	1.000	0	97.6	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	80	120			

Sample ID: 2102215-031ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S8-1'	Batch ID: 57927	RunNo: 75139								
Prep Date: 2/4/2021	Analysis Date: 2/9/2021	SeqNo: 2652773			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.023	0.9390	0	95.1	76.3	120			
Toluene	0.91	0.047	0.9390	0.01028	96.2	78.5	120			
Ethylbenzene	0.91	0.047	0.9390	0	97.3	78.1	124			
Xylenes, Total	2.7	0.094	2.817	0	96.6	79.3	125			
Surr: 4-Bromofluorobenzene	0.96		0.9390		102	80	120			

Sample ID: 2102215-031amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S8-1'	Batch ID: 57927	RunNo: 75139								
Prep Date: 2/4/2021	Analysis Date: 2/9/2021	SeqNo: 2652774			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9461	0	94.3	76.3	120	0.0593	20	
Toluene	0.91	0.047	0.9461	0.01028	94.8	78.5	120	0.747	20	
Ethylbenzene	0.91	0.047	0.9461	0	96.2	78.1	124	0.331	20	
Xylenes, Total	2.7	0.095	2.838	0	95.5	79.3	125	0.429	20	
Surr: 4-Bromofluorobenzene	0.97		0.9461		102	80	120	0	0	

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102215

12-Feb-21

Client: Pima Environmental Services LLC

Project: Burton Flat Deep St Fed Com 48H

Sample ID: mb-57917	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 57917		RunNo: 75165							
Prep Date: 2/4/2021	Analysis Date: 2/9/2021		SeqNo: 2654303		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: LCS-57917	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 57917		RunNo: 75165							
Prep Date: 2/4/2021	Analysis Date: 2/9/2021		SeqNo: 2654304		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.1	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID: mb-57923	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 57923		RunNo: 75212							
Prep Date: 2/4/2021	Analysis Date: 2/10/2021		SeqNo: 2655763		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.9	80	120			

Sample ID: LCS-57923	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 57923		RunNo: 75212							
Prep Date: 2/4/2021	Analysis Date: 2/10/2021		SeqNo: 2655764		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.6	80	120			
Toluene	0.99	0.050	1.000	0	99.4	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	80	120			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102215

12-Feb-21

Client: Pima Environmental Services LLC

Project: Burton Flat Deep St Fed Com 48H

Sample ID: 2102215-011ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: S2-2'	Batch ID: 57923			RunNo: 75212						
Prep Date: 2/4/2021	Analysis Date: 2/10/2021			SeqNo: 2655767		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	0.9852	0	85.5	76.3	120			
Toluene	0.93	0.049	0.9852	0.01063	93.1	78.5	120			
Ethylbenzene	0.94	0.049	0.9852	0	95.4	78.1	124			
Xylenes, Total	2.8	0.099	2.956	0.01580	94.4	79.3	125			
Surr: 4-Bromofluorobenzene	0.99		0.9852		101	80	120			

Sample ID: 2102215-011amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: S2-2'		Batch ID: 57923		RunNo: 75212						
Prep Date: 2/4/2021		Analysis Date: 2/10/2021		SeqNo: 2655768		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9461	0	87.5	76.3	120	1.66	20	
Toluene	0.91	0.047	0.9461	0.01063	95.6	78.5	120	1.42	20	
Ethylbenzene	0.93	0.047	0.9461	0	98.4	78.1	124	0.906	20	
Xylenes, Total	2.8	0.095	2.838	0.01580	97.3	79.3	125	1.04	20	
Surr: 4-Bromofluorobenzene	0.96		0.9461		101	80	120	0	0	

Sample ID: mb-57946		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: 57946		RunNo: 75212						
Prep Date: 2/5/2021		Analysis Date: 2/11/2021		SeqNo: 2655797		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	80	120			

Sample ID: LCS-57946		SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS		Batch ID: 57946		RunNo: 75212						
Prep Date: 2/5/2021		Analysis Date: 2/11/2021		SeqNo: 2655798		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	80	120			

Qualifiers:

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

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



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: 2102215

RcptNo: 1

Received By: Juan Rojas 2/4/2021 7:35:00 AM

Completed By: Erin Melendrez 2/4/2021 8:43:28 AM

Reviewed By: IO 2.4.21

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly 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 ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: SCL 2/4/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good				
2	0.1	Good				
3	2.0	Good				

Released to Imaging: 9/6/2024 10:50:32 AM

Received by OCD: 9/5/2024 10:09:09 AM

Chain-of-Custody Record

Client: Pima Environmental

Mailing Address: 1601 N Turner Ste 500
Hobbs, NM 88240

Phone #: 575-631-10977

email or Fax#: Chris@Pimaail.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time: 5 day

Project Name: Burton Flat Deep St Fed Com 48H

Project #:

Project Manager:

Chris Jones


Sampler:


On Ice: ☒ Yes ☐ No


of Coolers: 3

Cooler Temp (including CF): See Remarks (°C)

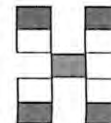
Date	Time	Sail Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2-2-21	10:15		53-0"-6"	Glass	Ice	2102215-013
	10:20		53-1"			-014
	10:25		53-2"			-015
	10:30		53-3"			-016
	10:35		54-0"-6"			-017
	10:40		54-1'			-018
	10:45		54-2'			-019
	10:50		54-3'			-020
	10:55		55-0"-6"			-021
	11:00		56-0"-6"			-022
	11:05		56-1"			-023
	11:10		56-2"			-024

Date: 2/3/21	Time: 1455	Relinquished by: 
-----------------	---------------	---

Date:	Time:	Relinquished by:
2/3/21	1900	

Received by:  Via: _____ Date: 2/3/21 Time: 1455

Received By: Via: Date Time
 [Signature] 2/4/21 7:35



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks:	$1.2 - 0.2 = 1.0$ $0.3 - 0.2 = 0.1$ Bill to Devon $2.2 - 0.2 = 2.0$
----------	---

Released to Imaging: 9/6/2024 10:50:32 AM

[illegible][illegible]

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 380875

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	380875
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nJMW1331940873
Incident Name	NJMW1331940873 BURTON FLAT 48 @ 30-015-40518
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-40518] BURTON FLAT DEEP STATE FEDERAL COM #048H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BURTON FLAT 48
Date Release Discovered	11/06/2013
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 200 BBL Recovered: 0 BBL Lost: 200 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 380875

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	380875
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 09/05/2024
--	--

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State of New Mexico
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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 380875

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	380875
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	11000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	18
GRO+DRO	(EPA SW-846 Method 8015M)	18
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	06/28/2024
On what date will (or did) the final sampling or liner inspection occur	06/28/2024
On what date will (or was) the remediation complete(d)	07/12/2024
What is the estimated surface area (in square feet) that will be reclaimed	400
What is the estimated volume (in cubic yards) that will be reclaimed	15
What is the estimated surface area (in square feet) that will be remediated	400
What is the estimated volume (in cubic yards) that will be remediated	15

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
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QUESTIONS, Page 4

Action 380875

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 380875
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 09/05/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 380875

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	380875
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 380875

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	380875
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	357736
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/28/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	400

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	400
What was the total volume (cubic yards) remediated	15
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	400
What was the total volume (in cubic yards) reclaimed	15
Summarize any additional remediation activities not included by answers (above)	see report

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 09/05/2024
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QUESTIONS, Page 7

Action 380875

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	380875
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 380875

CONDITIONS

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	6137
	Action Number:
	380875
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure report approved.	9/6/2024
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	9/6/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	9/6/2024
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	9/6/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeded activities, inspections, and final pictures when revegetation is achieved.	9/6/2024
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	9/6/2024