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

April 19th, 2021

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

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

Re: Site Remediation and Closure Report
Beetlejuice 19 Federal #003H
API No. 30-015-39321
GPS: Latitude 32.65251 Longitude -103.91257
UL "C", Sec. 19, T19S, R31E
Eddy County, NM
NMOCD Ref. No. NAB1734038480 (2RP-4511)

Dear Mr. Bratcher and Mr. Amos,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and remediation activities for a fire/produced water release that occurred at the Beetlejuice 19 Fed #3H (Beetlejuice). The initial C-141 was submitted on December 1st, 2017 (Appendix C). This incident was assigned Incident ID NAB1734038480 (2RP-4511), by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Beetlejuice is located approximately twenty-four (24) miles northeast of Carlsbad, NM. This spill site is in Unit C, Section 19, Township 19S, Range 31E, Latitude 32.65251, Longitude -103.91257, Eddy County, NM. Figure 1 references a Location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- Eolian and piedmont deposits (Holocene to middle Pleistocene) interlayered eolian sands and piedmont-slope deposits (QEP). The soil in this area is made up of Simona-Bippus complex, 0 to 5 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 in the area of the Beetlejuice (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 180 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 100 feet BGS. The closest waterway is a playa located approximately 1.44 miles to the southeast of this location. See Appendix A for referenced water surveys.

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

If the release occurred within any of the following areas, the responsible party would treat the release as if the groundwater was less than 50 feet per Rule 19.15.29

Water Issues	Yes	No
Within **300** feet of any continuously flowing watercourse or any other significant watercourse		x
Within **200** feet of any lakebed, sinkhole, or playa lake (measures from the ordinary high-water mark		x
Within **300** feet from an occupied permanent residence, school, hospital, institution, or church		x
Within **500** feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock water purposes		x
Within **1000** feet of any freshwater well or spring		x
Within incorporated municipal boundaries or within a defined municipal freshwater well field		x
Within **300** feet of a wetlands		x
Within the area overlying a subsurface mine		x
Within an unstable area (Karst)	x	
Within a 100-year floodplain		x

Reference Figure 2 for a Topographic Map.

Release Information

NAB1734038480 (2RP-4511): On November 18th, 2017, the flare was found on fire with fluid releasing out of the top. This was due to the separator being swamped out. The valves to the flare were shut in immediately, which extinguished the fire. The released fluids were calculated to be approximately less than 1 barrel (bbls) of produced water. No fluids were recovered from the area due to the fluid being released in an overspray.

Site Assessment and Soil Sampling Results

On August 6th, 2020, Pima Environmental mobilized personnel to the site in order to assess the area. We sampled the areas directly adjacent to the flare. The results of this sampling event can be found in the following data table.

8-6-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
DEVON ENERGY - BEETLE JUICE 19 FED 3H								
Sample Date 8-6-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	0-6"	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
S-2	0-6"	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
S-3	0-6"	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
S-4	0-6"	ND	ND	ND	**47**	**64**	**111**	ND
	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
S-5	0-6"	ND	ND	ND	ND	ND	ND	200
S-6	0-6"	ND	ND	ND	ND	ND	ND	360
S-7	0-6"	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	67
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	71
S-8	0-6"	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
BG 1	0-6"	ND	ND	ND	ND	ND	ND	ND
BG 2	0-6"	ND	ND	ND	ND	ND	ND	ND
BG 3	0-2'	ND	ND	ND	ND	ND	ND	ND

ND- Analyte Not Detected

Remediation Activities

On August 19th, 2020, Pima mobilized personnel and equipment to conduct remedial activities. We treated the area in the vicinity of S-4, just east of the flare, with a bioremediation chemical solution. Photographic documentation can be found in Appendix D.

On October 21st, 2020, Pima returned to the site to assess the area and confirm that the bioremediation technique had been effective. The results of this sampling event can be found in the following table.

10-21-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
DEVON ENERGY - BEETLE JUICE 19 FED 3H								
Sample Date 10-21-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-4	0-6"			ND	**2300**	**2900**	**5200**	

ND- Analyte Not Detected

On February 4th, 2021, Pima returned to the site to apply an additional treatment of the bioremediation chemical solution.

On April 14th, 2021, Pima returned to the site to collect confirmation samples from the treated area. The results of this sampling event can be found in the following table.

4-14-21 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
DEVON ENERGY - BEETLE JUICE 19 FED 3H								
Sample Date 4-14-21		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
S-4	0-6"			ND	ND	ND	ND	

ND – Analyte Not Detected

Complete Laboratory Reports are attached in Appendix E.

Based on the sample results, the contamination levels were below NMOCD Closure Criteria 19.15.29 NMAC.

Closure Request

After careful review, Pima requests that this incident, NAB1734038480 (2RP-4511), be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

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

Respectfully,

Tom Bynum

Tom Bynum
Environmental Project Manager
Pima Environmental Services, LLC

Attachments

Figures:
1- Location Map
2- Topo Map
3- Karst Map
4- Site Map

Appendices:
Appendix A – Referenced Water Surveys
Appendix B – Soil Survey and Geological Data
Appendix C – C-141's
Appendix D – Photographic Documentation
Appendix E – Laboratory Reports

Pima Environmental Services

Figures:

1-Location Map

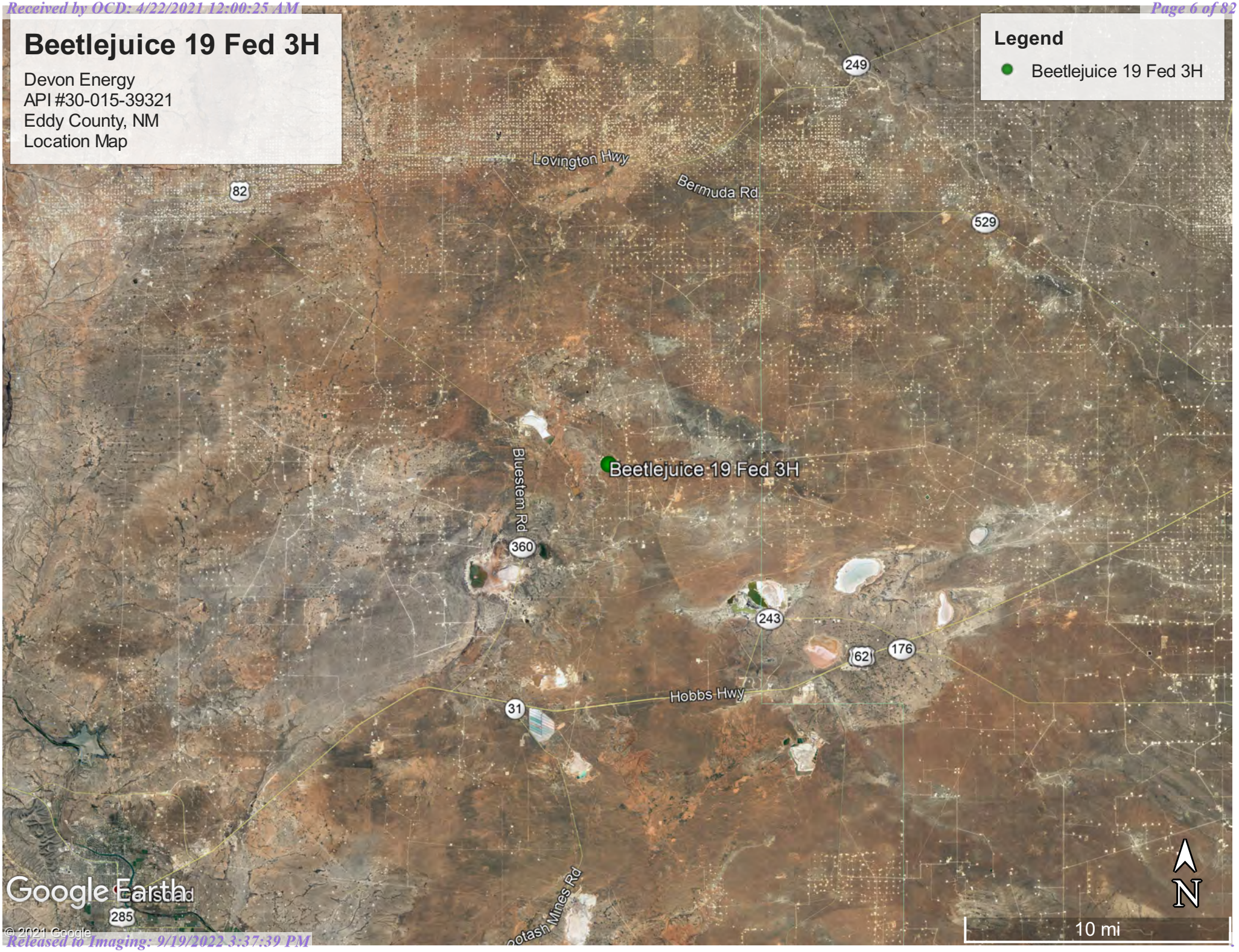
2-Topo Map

3-Karst Map

4-Site Map

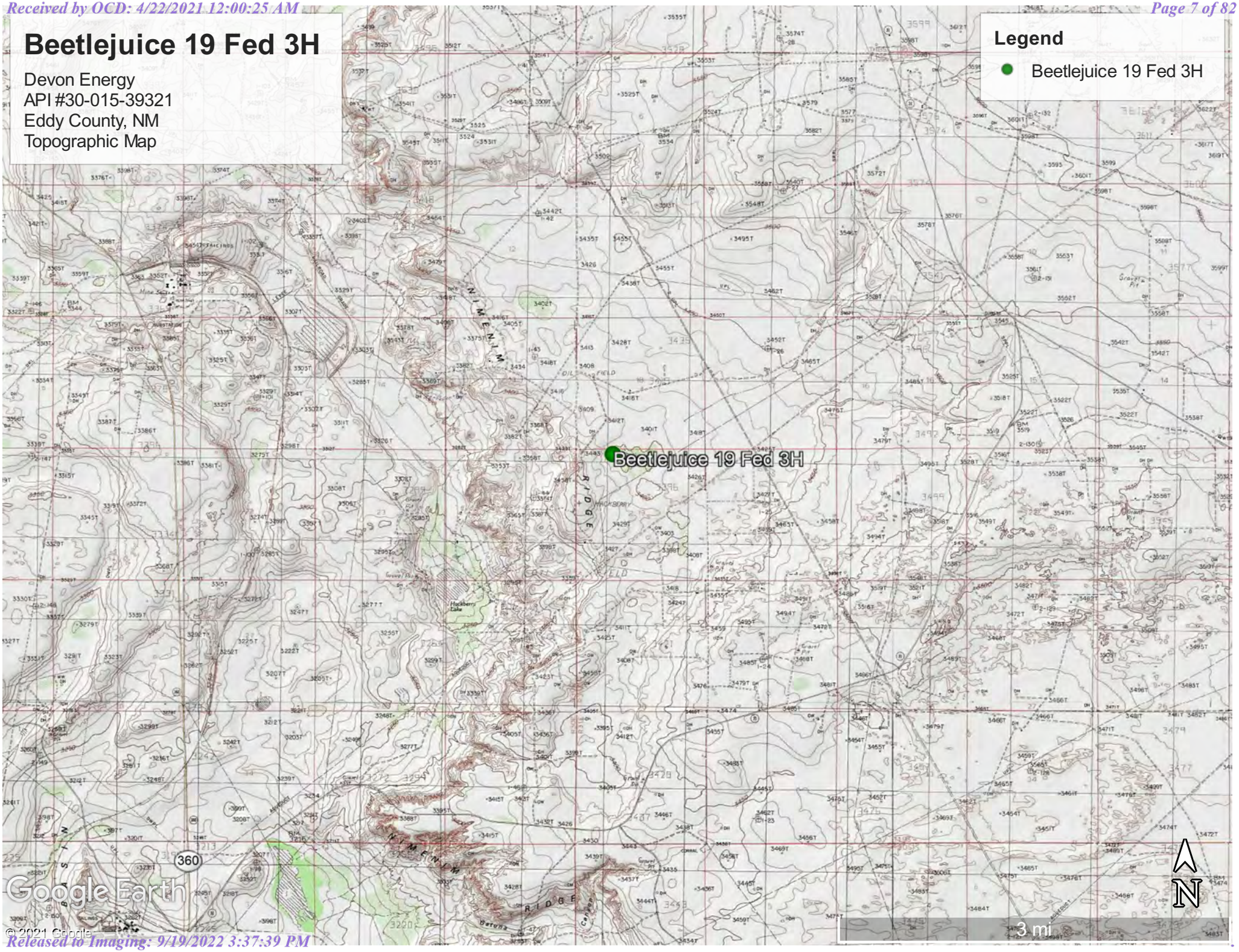
Beetlejuice 19 Fed 3H

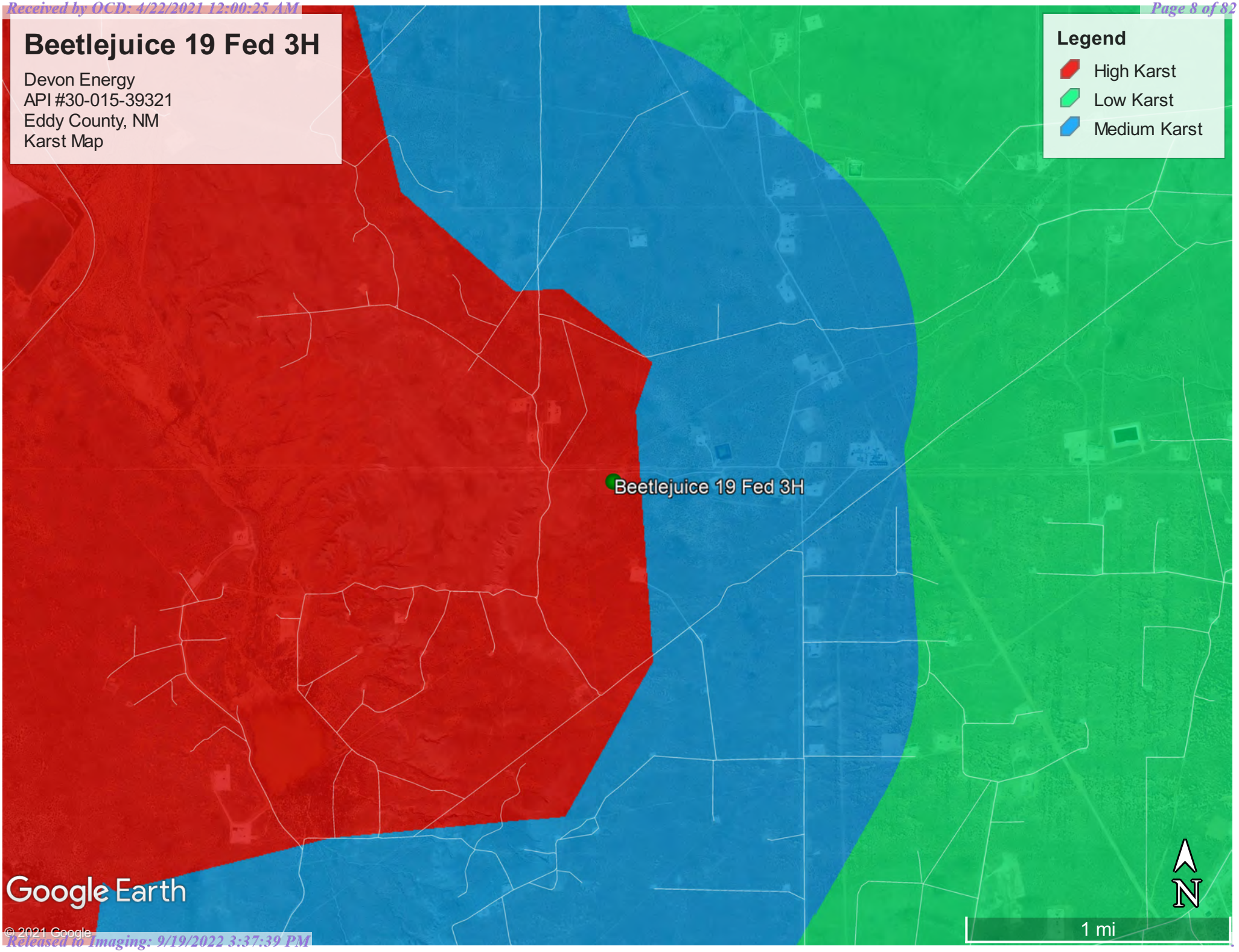
Devon Energy
API #30-015-39321
Eddy County, NM
Location Map



Beetlejuice 19 Fed 3H

Devon Energy
API #30-015-39321
Eddy County, NM
Topographic Map




Beetlejuice 19 Fed 3H
Devon Energy
API #30-015-39321
Eddy County, NM
Karst Map
Legend
High Karst
Low Karst
Medium Karst
Beetlejuice 19 Fed 3H
Google Earth
© 2021 Google
N
1 mi

Beetlejuice 19 Fed 3H

Devon Energy
API #30-015-39321
Eddy County, NM
Site Map

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Appendix A

Water Surveys:

OSE

USGS

Surface Water Map

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

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

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

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

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00873 POD1		CP	LE		1	1	19	19S	31E	601772	3613147*	273	340	180	160
CP 00357 POD1		CP	ED	4	4	1	24	19S	30E	600667	3612631*	1492	630		
CP 00357 POD2		CP	ED	4	3	1	24	19S	30E	600265	3612627*	1865	630		
CP 00722 POD2		CP	ED	2	1	1	25	19S	30E	600276	3611620*	2399	350	65	285
CP 00822 POD1		CP	LE		4	4	15	19S	30E	598148	3613516*	3874	90		

Average Depth to Water: **122 feet**

Minimum Depth: **65 feet**

Maximum Depth: **180 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 602014.68 **Northing (Y):** 3613273.124 **Radius:** 4000

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

National Water Information System: Web Interface

USGS Water Resources

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

Click to hideNews Bulletins

- Explore the **NEW** USGS National Water Dashboard to access real-time data from over 13,500 stations nationwide.
- **April 7, 2021 - The USGS Water Data for the Nation site has a planned outage this evening. Real time data will be behind from 8pm ET-11pm ET. Please plan on this lapse in current data in your applications and use of our data.** A notice will be posted when the data are current.
  Status Update: 10:45 pm ET - The planned outage has been completed. Recent time-series data are again being delivered to Water Data for the Nation.
- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

site_no list =

- 323730103524701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

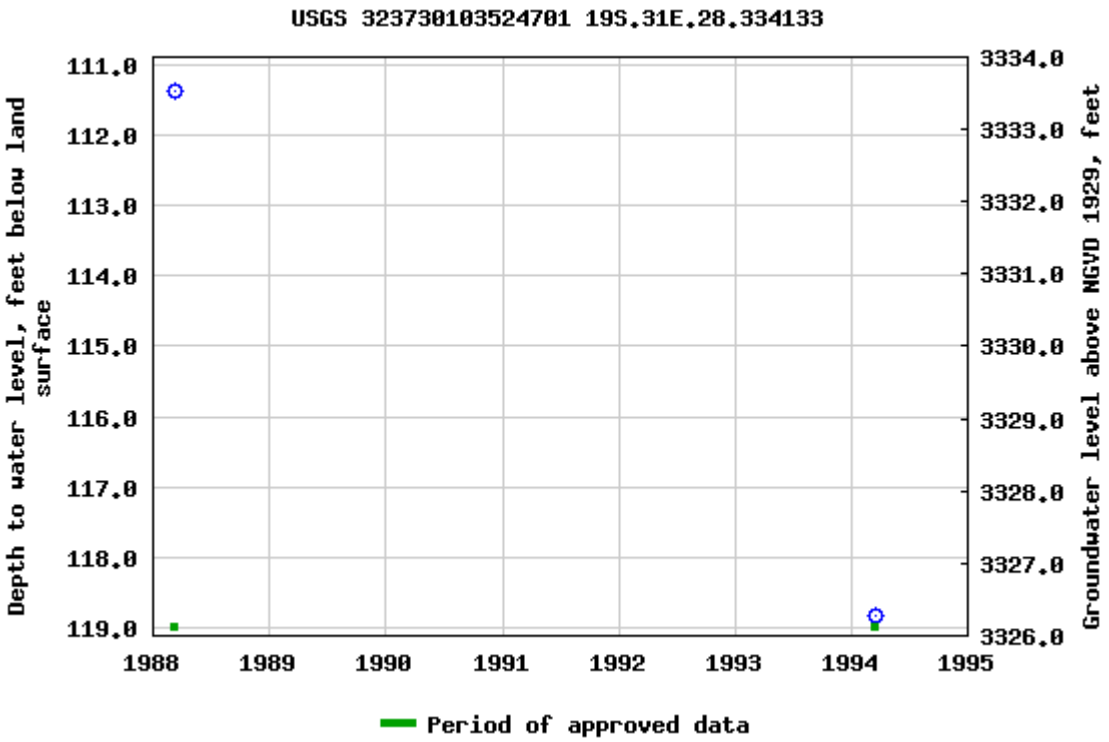
USGS 323730103524701 19S.31E.28.334133

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

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°37'30", Longitude 103°52'47" NAD27
Land-surface elevation 3,445 feet above NGVD29
The depth of the well is 204.00 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Dockum Group (231DCKM) local aquifer.

Output formats

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



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

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

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-04-08 10:13:15 EDT
0.74 0.67 nadww01

2RP-4511

National Water Information System: Web Interface

USGS Water Resources

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

Click to hideNews Bulletins

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  Status Update: 10:45 pm ET - The planned outage has been completed. Recent time-series data are again being delivered to Water Data for the Nation.
- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

site_no list =

- 323734103523901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

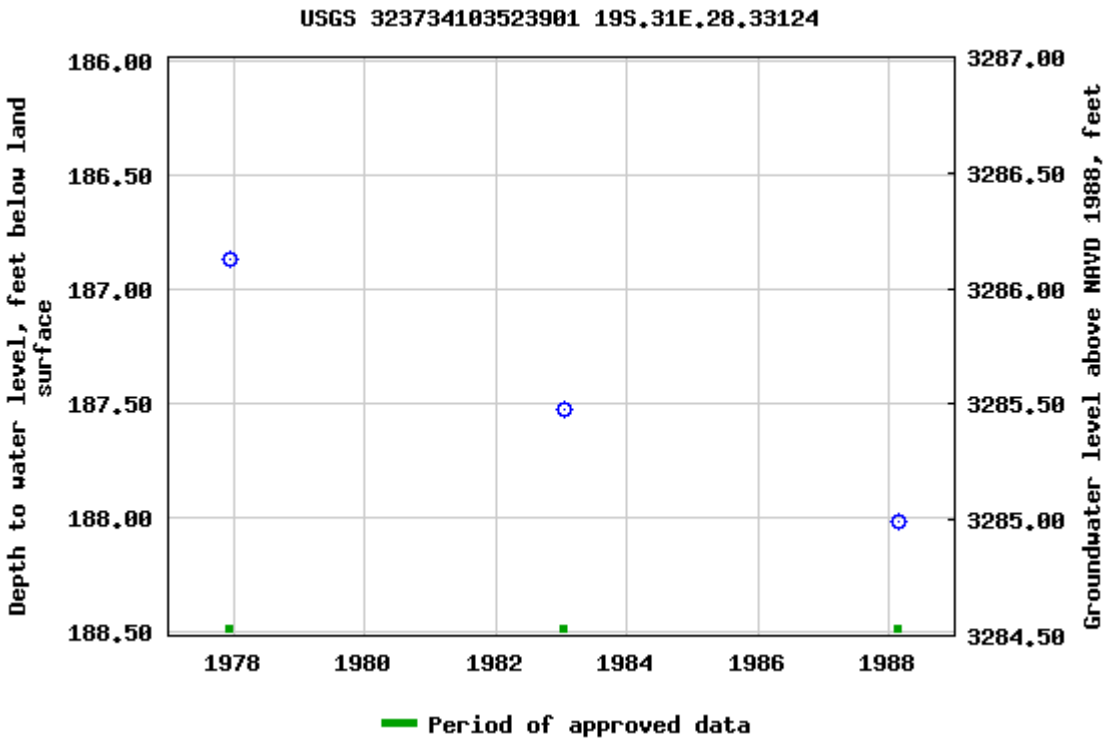
USGS 323734103523901 19S.31E.28.33124

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

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

Output formats

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



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

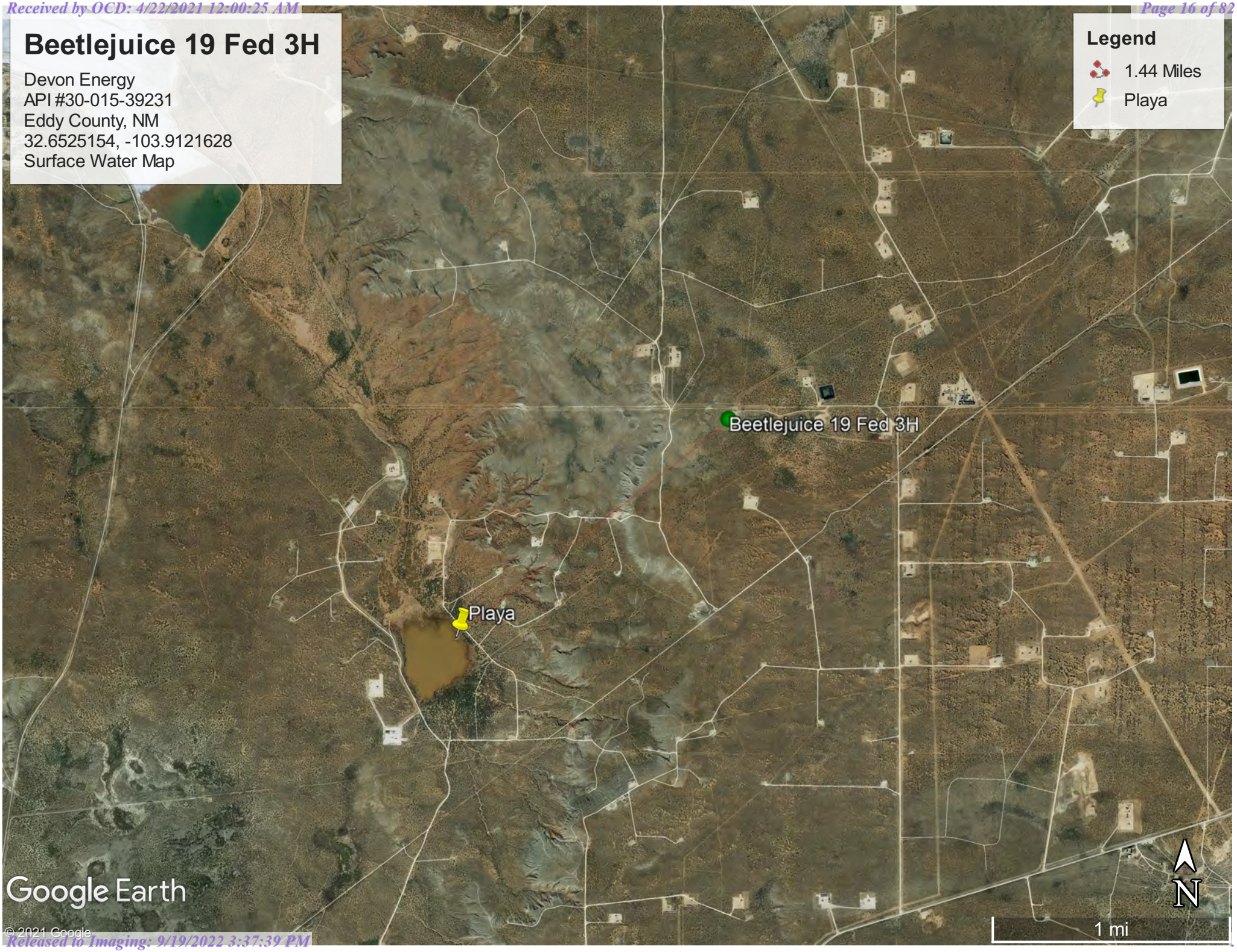
Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-04-08 10:13:45 EDT
0.73 0.67 nadww01

Beetlejuice 19 Fed 3H

Devon Energy
API #30-015-39231
Eddy County, NM
32.6525154, -103.9121628
Surface Water Map



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Eddy Area, New Mexico

SM—Simona-Bippus complex, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1w5x
Elevation: 1,800 to 5,000 feet
Mean annual precipitation: 8 to 24 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 55 percent
Bippus and similar soils: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

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

Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam
H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: Very 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 in profile: 15 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D

Ecological site: Shallow Sandy (R042XC002NM)
Hydric soil rating: No

Description of Bippus

Setting

Landform: Flood plains, alluvial fans
Landform position (three-dimensional): Talf, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium

Typical profile

H1 - 0 to 37 inches: silty clay loam
H2 - 37 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: Bottomland (R042XC017NM)
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 8 percent
Ecological site: Shallow Sandy (R042XC002NM)
Hydric soil rating: No

Bippus

Percent of map unit: 7 percent
Ecological site: Bottomland (R042XC017NM)

Hydric soil rating: No

Data Source Information

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

National Flood Hazard Layer FIRMette

FEMA

103°55'2"W 32°39'24"N

103°54'25"W 32°38'54"N

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

1:6,000

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

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/8/2021 at 10:18 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Pima Environmental Services

Appendix C

C-141's:

Initial

Final

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

State of New Mexico
Energy Minerals and Natural Resources

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

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 01 2017
RECEIVED

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

nAB1734038480

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company (6137)	Contact Wes Ryan, Production Foreman
Address 6488 Seven Rivers Hwy, Artesia NM 88210	Telephone No. 575-390-5436
Facility Name Beetlejuice 19 Fed 3H	Facility Type Oil

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-39231

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	19	19S	31E					Eddy

Latitude 32.65251 **Longitude** -103.91257 NAD83

NATURE OF RELEASE

Type of Release Fire/Produced Water	Volume of Release <1 bbl pw	Volume Recovered 0 bbl pw
Source of Release Flare	Date and Hour of Occurrence 11/18/2017 @ 3:30AM MST	Date and Hour of Discovery 11/18/2017 @ 3:30AM MST
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? NMOCD-Mike Bratcher and Crystal Weaver BLM-Shelly Tucker	
By Whom? Mike Shoemaker, EHS Professional	Date and Hour 11/18/2017 @ 4:33PM MST (via e-mail)	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

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

Describe Cause of Problem and Remedial Action Taken.*
The flare was on fire and fluid was coming out the top because the separator for that flare had swamped out. The valves going to the flare were shut in and the fire went out. There was a less than 1 bbl overspray associated with the fire the affected area from the overspray was all on pad.

Describe Area Affected and Cleanup Action Taken.*
The valves going to the flare were shut in and the fire went out. The area affected by the overspray was all on location and a remediation contractor will be contacted to assist with remediation efforts.

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

Signature: Dana DeLaRosa	OIL CONSERVATION DIVISION Approved by Environmental Specialist:	
Printed Name: Dana DeLaRosa		
Title: Field Admin Support	Approval Date: 12/4/17	Expiration Date: N/A
E-mail Address: dana.delarosa@dvn.com	Conditions of Approval: see attached	Attached ☒ 2RP-4511
Date: Phone: 575.746.5594		

* Attach Additional Sheets If Necessary

State of New Mexico
Oil Conservation Division

Incident ID	NAB1734038480
District RP	2RP-4511
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- ☑ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☑ Field data
- ☑ Data table of soil contaminant concentration data
- ☑ Depth to water determination
- ☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☑ Boring or excavation logs
- ☑ Photographs including date and GIS information
- ☑ Topographic/Aerial maps
- ☑ Laboratory data including chain of custody

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAB1734038480
District RP	2RP-4511
Facility ID	
Application ID	

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

Printed Name: Wes Mathews Title: EHS Professional

Signature: Wesley Mathews Date: 4/20/2021

email: wesley.mathews@dvn.com Telephone: 575-725-0787

OCD Only

Received by: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAB1734038480
District RP	2RP-4511
Facility ID	
Application ID	

Closure

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

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

☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

☑ Description of remediation activities

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

Printed Name: Wes Mathews Title: EHS Professional

Signature: Wesley Mathews Date: 4/20/2021

email: wesley.mathews@dvn.com Telephone: 575-725-0787

OCD Only

Received by: OCD Date: 4/21/2021

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

Closure Approved by: Ashley Maxwell Date: 9/19/2022

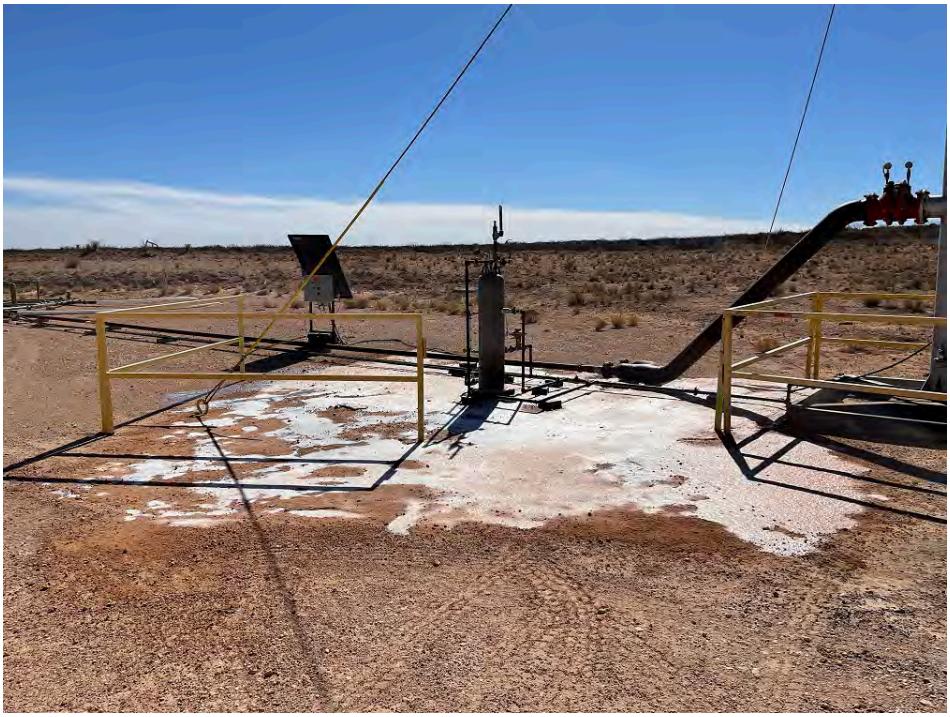
Printed Name: Ashley Maxwell Title: Environmental Specialist

Pima Environmental Services

Appendix D

Photographic Documentation

SITE PHOTOGRAPHS




Artesia, NM 88210, USA
Latitude Longitude
32.652510° -103.912087°
LOCAL WEDNESDAY 08.19.2020
GMT 21:06 ALTITUDE 0 METER


Artesia, NM 88210, USA
Latitude Longitude
32.652510° -103.912087°
LOCAL WEDNESDAY 08.19.2020
GMT 21:06 ALTITUDE 0 METER


Artesia, NM 88210, USA
Latitude Longitude
32.652240° -103.912281°
LOCAL WEDNESDAY 08.19.2020
GMT 21:06 ALTITUDE 1003 METER


Artesia, NM 88210, USA
Latitude Longitude
32.652510° -103.912087°
LOCAL WEDNESDAY 08.19.2020
GMT 21:06 ALTITUDE 0 METER


Artesia, NM 88210, USA
Latitude Longitude
32.652270° -103.912283°
LOCAL WEDNESDAY 08.19.2020
GMT 21:06 ALTITUDE 1015 METER

Pima Environmental Services

Appendix E

Laboratory Reports

N

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

August 18, 2020

Chris Jones

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

RE: Beetle Juice 19 Fed 3H OrderNo.: 2008617

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 29 sample(s) on 8/12/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S1, 0"-6"
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:00:00 AM
Lab ID: 2008617-001 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/13/2020 9:19:28 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/13/2020 9:19:28 PM
Surr: DNOP	63.1	30.4-154		%Rec	1	8/13/2020 9:19:28 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 12:03:22 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.024		mg/Kg	1	8/14/2020 4:46:24 AM
Toluene	ND	0.049		mg/Kg	1	8/14/2020 4:46:24 AM
Ethylbenzene	ND	0.049		mg/Kg	1	8/14/2020 4:46:24 AM
Xylenes, Total	ND	0.097		mg/Kg	1	8/14/2020 4:46:24 AM
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%Rec	1	8/14/2020 4:46:24 AM
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	8/14/2020 4:46:24 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	8/14/2020 4:46:24 AM
Surr: Toluene-d8	89.6	70-130		%Rec	1	8/14/2020 4:46:24 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/14/2020 4:46:24 AM
Surr: BFB	97.0	70-130		%Rec	1	8/14/2020 4:46:24 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S1,1'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:04:00 AM
Lab ID: 2008617-002 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/13/2020 9:29:31 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/13/2020 9:29:31 PM
Surr: DNOP	81.0	30.4-154		%Rec	1	8/13/2020 9:29:31 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 12:40:22 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.024		mg/Kg	1	8/14/2020 5:14:59 AM
Toluene	ND	0.047		mg/Kg	1	8/14/2020 5:14:59 AM
Ethylbenzene	ND	0.047		mg/Kg	1	8/14/2020 5:14:59 AM
Xylenes, Total	ND	0.095		mg/Kg	1	8/14/2020 5:14:59 AM
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%Rec	1	8/14/2020 5:14:59 AM
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	8/14/2020 5:14:59 AM
Surr: Dibromofluoromethane	103	70-130		%Rec	1	8/14/2020 5:14:59 AM
Surr: Toluene-d8	97.6	70-130		%Rec	1	8/14/2020 5:14:59 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/14/2020 5:14:59 AM
Surr: BFB	102	70-130		%Rec	1	8/14/2020 5:14:59 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

N

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S1, 2'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:08:00 AM
Lab ID: 2008617-003 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/13/2020 9:39:46 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/13/2020 9:39:46 PM
Surr: DNOP	81.1	30.4-154		%Rec	1	8/13/2020 9:39:46 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 1:17:23 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.023		mg/Kg	1	8/14/2020 5:43:49 AM
Toluene	ND	0.046		mg/Kg	1	8/14/2020 5:43:49 AM
Ethylbenzene	ND	0.046		mg/Kg	1	8/14/2020 5:43:49 AM
Xylenes, Total	ND	0.092		mg/Kg	1	8/14/2020 5:43:49 AM
Surr: 1,2-Dichloroethane-d4	92.0	70-130		%Rec	1	8/14/2020 5:43:49 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/14/2020 5:43:49 AM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	8/14/2020 5:43:49 AM
Surr: Toluene-d8	101	70-130		%Rec	1	8/14/2020 5:43:49 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/14/2020 5:43:49 AM
Surr: BFB	106	70-130		%Rec	1	8/14/2020 5:43:49 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S1, 3'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:12:00 AM
Lab ID: 2008617-004 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/13/2020 9:50:01 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/13/2020 9:50:01 PM
Surr: DNOP	82.3	30.4-154		%Rec	1	8/13/2020 9:50:01 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 1:29:43 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.024		mg/Kg	1	8/14/2020 6:12:23 AM
Toluene	ND	0.047		mg/Kg	1	8/14/2020 6:12:23 AM
Ethylbenzene	ND	0.047		mg/Kg	1	8/14/2020 6:12:23 AM
Xylenes, Total	ND	0.094		mg/Kg	1	8/14/2020 6:12:23 AM
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%Rec	1	8/14/2020 6:12:23 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/14/2020 6:12:23 AM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	8/14/2020 6:12:23 AM
Surr: Toluene-d8	93.5	70-130		%Rec	1	8/14/2020 6:12:23 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/14/2020 6:12:23 AM
Surr: BFB	105	70-130		%Rec	1	8/14/2020 6:12:23 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S2, 0"-6"
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:16:00 AM
Lab ID: 2008617-005 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/13/2020 10:00:13 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/13/2020 10:00:13 PM
Surr: DNOP	77.7	30.4-154		%Rec	1	8/13/2020 10:00:13 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 1:42:03 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.024		mg/Kg	1	8/14/2020 6:40:51 AM
Toluene	ND	0.047		mg/Kg	1	8/14/2020 6:40:51 AM
Ethylbenzene	ND	0.047		mg/Kg	1	8/14/2020 6:40:51 AM
Xylenes, Total	ND	0.094		mg/Kg	1	8/14/2020 6:40:51 AM
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%Rec	1	8/14/2020 6:40:51 AM
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	8/14/2020 6:40:51 AM
Surr: Dibromofluoromethane	107	70-130		%Rec	1	8/14/2020 6:40:51 AM
Surr: Toluene-d8	96.9	70-130		%Rec	1	8/14/2020 6:40:51 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/14/2020 6:40:51 AM
Surr: BFB	103	70-130		%Rec	1	8/14/2020 6:40:51 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S2, 1'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:20:00 AM
Lab ID: 2008617-006 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/13/2020 10:10:26 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/13/2020 10:10:26 PM
Surr: DNOP	96.9	30.4-154		%Rec	1	8/13/2020 10:10:26 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 1:54:24 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.024		mg/Kg	1	8/14/2020 7:09:23 AM
Toluene	ND	0.048		mg/Kg	1	8/14/2020 7:09:23 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/14/2020 7:09:23 AM
Xylenes, Total	ND	0.097		mg/Kg	1	8/14/2020 7:09:23 AM
Surr: 1,2-Dichloroethane-d4	97.2	70-130		%Rec	1	8/14/2020 7:09:23 AM
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	8/14/2020 7:09:23 AM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	8/14/2020 7:09:23 AM
Surr: Toluene-d8	94.1	70-130		%Rec	1	8/14/2020 7:09:23 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/14/2020 7:09:23 AM
Surr: BFB	99.7	70-130		%Rec	1	8/14/2020 7:09:23 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S2, 2'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:24:00 AM
Lab ID: 2008617-007 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/13/2020 10:20:35 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/13/2020 10:20:35 PM
Surr: DNOP	88.4	30.4-154		%Rec	1	8/13/2020 10:20:35 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 2:06:45 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.024		mg/Kg	1	8/14/2020 7:38:02 AM
Toluene	ND	0.049		mg/Kg	1	8/14/2020 7:38:02 AM
Ethylbenzene	ND	0.049		mg/Kg	1	8/14/2020 7:38:02 AM
Xylenes, Total	ND	0.098		mg/Kg	1	8/14/2020 7:38:02 AM
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%Rec	1	8/14/2020 7:38:02 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/14/2020 7:38:02 AM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	8/14/2020 7:38:02 AM
Surr: Toluene-d8	97.0	70-130		%Rec	1	8/14/2020 7:38:02 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/14/2020 7:38:02 AM
Surr: BFB	104	70-130		%Rec	1	8/14/2020 7:38:02 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S2, 3'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:28:00 AM
Lab ID: 2008617-008 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/13/2020 10:30:45 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/13/2020 10:30:45 PM
Surr: DNOP	110	30.4-154		%Rec	1	8/13/2020 10:30:45 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	59		mg/Kg	20	8/16/2020 2:19:05 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.024		mg/Kg	1	8/14/2020 8:06:35 AM
Toluene	ND	0.048		mg/Kg	1	8/14/2020 8:06:35 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/14/2020 8:06:35 AM
Xylenes, Total	ND	0.095		mg/Kg	1	8/14/2020 8:06:35 AM
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%Rec	1	8/14/2020 8:06:35 AM
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	8/14/2020 8:06:35 AM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	8/14/2020 8:06:35 AM
Surr: Toluene-d8	94.2	70-130		%Rec	1	8/14/2020 8:06:35 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/14/2020 8:06:35 AM
Surr: BFB	103	70-130		%Rec	1	8/14/2020 8:06:35 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S3, 0"-6"
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:32:00 AM
Lab ID: 2008617-009 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/13/2020 10:40:54 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/13/2020 10:40:54 PM
Surr: DNOP	82.2	30.4-154		%Rec	1	8/13/2020 10:40:54 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 2:31:26 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.024		mg/Kg	1	8/14/2020 8:35:05 AM
Toluene	ND	0.049		mg/Kg	1	8/14/2020 8:35:05 AM
Ethylbenzene	ND	0.049		mg/Kg	1	8/14/2020 8:35:05 AM
Xylenes, Total	ND	0.098		mg/Kg	1	8/14/2020 8:35:05 AM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	8/14/2020 8:35:05 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/14/2020 8:35:05 AM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	8/14/2020 8:35:05 AM
Surr: Toluene-d8	96.9	70-130		%Rec	1	8/14/2020 8:35:05 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/14/2020 8:35:05 AM
Surr: BFB	107	70-130		%Rec	1	8/14/2020 8:35:05 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S3, 1'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:36:00 AM
Lab ID: 2008617-010 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/13/2020 10:51:05 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/13/2020 10:51:05 PM
Surr: DNOP	91.7	30.4-154		%Rec	1	8/13/2020 10:51:05 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 2:43:46 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.024		mg/Kg	1	8/14/2020 9:03:32 AM
Toluene	ND	0.048		mg/Kg	1	8/14/2020 9:03:32 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/14/2020 9:03:32 AM
Xylenes, Total	ND	0.097		mg/Kg	1	8/14/2020 9:03:32 AM
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%Rec	1	8/14/2020 9:03:32 AM
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	8/14/2020 9:03:32 AM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	8/14/2020 9:03:32 AM
Surr: Toluene-d8	93.1	70-130		%Rec	1	8/14/2020 9:03:32 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/14/2020 9:03:32 AM
Surr: BFB	99.2	70-130		%Rec	1	8/14/2020 9:03:32 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S3, 2
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:40:00 AM
Lab ID: 2008617-011 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/13/2020 11:51:11 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/13/2020 11:51:11 PM
Surr: DNOP	104	30.4-154		%Rec	1	8/13/2020 11:51:11 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 2:56:07 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.024		mg/Kg	1	8/14/2020 9:32:02 AM
Toluene	ND	0.048		mg/Kg	1	8/14/2020 9:32:02 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/14/2020 9:32:02 AM
Xylenes, Total	ND	0.095		mg/Kg	1	8/14/2020 9:32:02 AM
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%Rec	1	8/14/2020 9:32:02 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/14/2020 9:32:02 AM
Surr: Dibromofluoromethane	107	70-130		%Rec	1	8/14/2020 9:32:02 AM
Surr: Toluene-d8	93.9	70-130		%Rec	1	8/14/2020 9:32:02 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/14/2020 9:32:02 AM
Surr: BFB	106	70-130		%Rec	1	8/14/2020 9:32:02 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S3, 3
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:44:00 AM
Lab ID: 2008617-012 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/14/2020 12:21:25 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/14/2020 12:21:25 AM
Surr: DNOP	121	30.4-154		%Rec	1	8/14/2020 12:21:25 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 3:08:26 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.023		mg/Kg	1	8/14/2020 10:00:39 AM
Toluene	ND	0.046		mg/Kg	1	8/14/2020 10:00:39 AM
Ethylbenzene	ND	0.046		mg/Kg	1	8/14/2020 10:00:39 AM
Xylenes, Total	ND	0.093		mg/Kg	1	8/14/2020 10:00:39 AM
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%Rec	1	8/14/2020 10:00:39 AM
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	8/14/2020 10:00:39 AM
Surr: Dibromofluoromethane	107	70-130		%Rec	1	8/14/2020 10:00:39 AM
Surr: Toluene-d8	101	70-130		%Rec	1	8/14/2020 10:00:39 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/14/2020 10:00:39 AM
Surr: BFB	105	70-130		%Rec	1	8/14/2020 10:00:39 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S4, 0"-6"
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:48:00 AM
Lab ID: 2008617-013 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	47	9.7		mg/Kg	1	8/14/2020 12:31:29 AM
Motor Oil Range Organics (MRO)	64	49		mg/Kg	1	8/14/2020 12:31:29 AM
Surr: DNOP	126	30.4-154		%Rec	1	8/14/2020 12:31:29 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/15/2020 2:57:29 AM
Surr: BFB	101	75.3-105		%Rec	1	8/15/2020 2:57:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	8/15/2020 2:57:29 AM
Toluene	ND	0.048		mg/Kg	1	8/15/2020 2:57:29 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/15/2020 2:57:29 AM
Xylenes, Total	ND	0.096		mg/Kg	1	8/15/2020 2:57:29 AM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	8/15/2020 2:57:29 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 3:45:29 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S4, 1'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:52:00 AM
Lab ID: 2008617-014 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/14/2020 12:41:30 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/14/2020 12:41:30 AM
Surr: DNOP	116	30.4-154		%Rec	1	8/14/2020 12:41:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/15/2020 4:08:07 AM
Surr: BFB	100	75.3-105		%Rec	1	8/15/2020 4:08:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	8/15/2020 4:08:07 AM
Toluene	ND	0.048		mg/Kg	1	8/15/2020 4:08:07 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/15/2020 4:08:07 AM
Xylenes, Total	ND	0.097		mg/Kg	1	8/15/2020 4:08:07 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	8/15/2020 4:08:07 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 3:57:49 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S4, 2'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 9:56:00 AM
Lab ID: 2008617-015 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/14/2020 12:51:33 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/14/2020 12:51:33 AM
Surr: DNOP	97.8	30.4-154		%Rec	1	8/14/2020 12:51:33 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/15/2020 5:19:11 AM
Surr: BFB	104	75.3-105		%Rec	1	8/15/2020 5:19:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	8/15/2020 5:19:11 AM
Toluene	ND	0.049		mg/Kg	1	8/15/2020 5:19:11 AM
Ethylbenzene	ND	0.049		mg/Kg	1	8/15/2020 5:19:11 AM
Xylenes, Total	ND	0.099		mg/Kg	1	8/15/2020 5:19:11 AM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	8/15/2020 5:19:11 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 4:10:09 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S4, 3'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:00:00 AM
Lab ID: 2008617-016 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/14/2020 1:01:33 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/14/2020 1:01:33 AM
Surr: DNOP	98.4	30.4-154		%Rec	1	8/14/2020 1:01:33 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/15/2020 5:43:22 AM
Surr: BFB	106	75.3-105	S	%Rec	1	8/15/2020 5:43:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	8/15/2020 5:43:22 AM
Toluene	ND	0.049		mg/Kg	1	8/15/2020 5:43:22 AM
Ethylbenzene	ND	0.049		mg/Kg	1	8/15/2020 5:43:22 AM
Xylenes, Total	ND	0.098		mg/Kg	1	8/15/2020 5:43:22 AM
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	8/15/2020 5:43:22 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 4:22:29 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S5, 0"-6"
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:04:00 AM
Lab ID: 2008617-017 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/14/2020 1:11:25 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/14/2020 1:11:25 AM
Surr: DNOP	50.1	30.4-154		%Rec	1	8/14/2020 1:11:25 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/15/2020 6:06:55 AM
Surr: BFB	101	75.3-105		%Rec	1	8/15/2020 6:06:55 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	8/15/2020 6:06:55 AM
Toluene	ND	0.047		mg/Kg	1	8/15/2020 6:06:55 AM
Ethylbenzene	ND	0.047		mg/Kg	1	8/15/2020 6:06:55 AM
Xylenes, Total	ND	0.094		mg/Kg	1	8/15/2020 6:06:55 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	8/15/2020 6:06:55 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	200	60		mg/Kg	20	8/16/2020 4:34:48 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S6, 0"-6"
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:08:00 AM
Lab ID: 2008617-018 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/14/2020 1:21:18 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/14/2020 1:21:18 AM
Surr: DNOP	60.8	30.4-154		%Rec	1	8/14/2020 1:21:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/15/2020 6:30:22 AM
Surr: BFB	99.4	75.3-105		%Rec	1	8/15/2020 6:30:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	8/15/2020 6:30:22 AM
Toluene	ND	0.050		mg/Kg	1	8/15/2020 6:30:22 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/15/2020 6:30:22 AM
Xylenes, Total	ND	0.099		mg/Kg	1	8/15/2020 6:30:22 AM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	8/15/2020 6:30:22 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	360	59		mg/Kg	20	8/16/2020 4:47:10 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S7, 0"-6"
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:12:00 AM
Lab ID: 2008617-019 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/14/2020 1:31:06 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/14/2020 1:31:06 AM
Surr: DNOP	63.4	30.4-154		%Rec	1	8/14/2020 1:31:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/15/2020 6:54:00 AM
Surr: BFB	100	75.3-105		%Rec	1	8/15/2020 6:54:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.023		mg/Kg	1	8/15/2020 6:54:00 AM
Toluene	ND	0.046		mg/Kg	1	8/15/2020 6:54:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	8/15/2020 6:54:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	8/15/2020 6:54:00 AM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	8/15/2020 6:54:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 5:24:13 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S7, 1'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:16:00 AM
Lab ID: 2008617-020 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/14/2020 1:41:02 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/14/2020 1:41:02 AM
Surr: DNOP	84.0	30.4-154		%Rec	1	8/14/2020 1:41:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/15/2020 7:17:31 AM
Surr: BFB	101	75.3-105		%Rec	1	8/15/2020 7:17:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	8/15/2020 7:17:31 AM
Toluene	ND	0.048		mg/Kg	1	8/15/2020 7:17:31 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/15/2020 7:17:31 AM
Xylenes, Total	ND	0.096		mg/Kg	1	8/15/2020 7:17:31 AM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	8/15/2020 7:17:31 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	67	60		mg/Kg	20	8/16/2020 6:25:56 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S7, 2'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:20:00 AM
Lab ID: 2008617-021 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/14/2020 1:50:53 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/14/2020 1:50:53 AM
Surr: DNOP	86.0	30.4-154		%Rec	1	8/14/2020 1:50:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/15/2020 7:41:03 AM
Surr: BFB	98.7	75.3-105		%Rec	1	8/15/2020 7:41:03 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	8/15/2020 7:41:03 AM
Toluene	ND	0.049		mg/Kg	1	8/15/2020 7:41:03 AM
Ethylbenzene	ND	0.049		mg/Kg	1	8/15/2020 7:41:03 AM
Xylenes, Total	ND	0.098		mg/Kg	1	8/15/2020 7:41:03 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	8/15/2020 7:41:03 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 6:38:16 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S7, 3'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:24:00 AM
Lab ID: 2008617-022 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/14/2020 2:00:49 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/14/2020 2:00:49 AM
Surr: DNOP	95.8	30.4-154		%Rec	1	8/14/2020 2:00:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/15/2020 8:04:42 AM
Surr: BFB	98.4	75.3-105		%Rec	1	8/15/2020 8:04:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	8/15/2020 8:04:42 AM
Toluene	ND	0.049		mg/Kg	1	8/15/2020 8:04:42 AM
Ethylbenzene	ND	0.049		mg/Kg	1	8/15/2020 8:04:42 AM
Xylenes, Total	ND	0.097		mg/Kg	1	8/15/2020 8:04:42 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	8/15/2020 8:04:42 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	71	60		mg/Kg	20	8/16/2020 6:50:36 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S8, 0"-6"
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:28:00 AM
Lab ID: 2008617-023 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/14/2020 2:10:45 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/14/2020 2:10:45 AM
Surr: DNOP	81.7	30.4-154		%Rec	1	8/14/2020 2:10:45 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/15/2020 2:09:51 PM
Surr: BFB	101	75.3-105		%Rec	1	8/15/2020 2:09:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	8/15/2020 2:09:51 PM
Toluene	ND	0.049		mg/Kg	1	8/15/2020 2:09:51 PM
Ethylbenzene	ND	0.049		mg/Kg	1	8/15/2020 2:09:51 PM
Xylenes, Total	ND	0.098		mg/Kg	1	8/15/2020 2:09:51 PM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	8/15/2020 2:09:51 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 7:02:57 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S8, 1'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:32:00 AM
Lab ID: 2008617-024 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/14/2020 2:20:54 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/14/2020 2:20:54 AM
Surr: DNOP	62.1	30.4-154		%Rec	1	8/14/2020 2:20:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/15/2020 2:33:32 PM
Surr: BFB	103	75.3-105		%Rec	1	8/15/2020 2:33:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	8/15/2020 2:33:32 PM
Toluene	ND	0.050		mg/Kg	1	8/15/2020 2:33:32 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/15/2020 2:33:32 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/15/2020 2:33:32 PM
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	8/15/2020 2:33:32 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 7:15:17 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S8, 2'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:36:00 AM
Lab ID: 2008617-025 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/14/2020 2:30:49 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/14/2020 2:30:49 AM
Surr: DNOP	38.5	30.4-154		%Rec	1	8/14/2020 2:30:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/15/2020 2:57:13 PM
Surr: BFB	102	75.3-105		%Rec	1	8/15/2020 2:57:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.023		mg/Kg	1	8/15/2020 2:57:13 PM
Toluene	ND	0.047		mg/Kg	1	8/15/2020 2:57:13 PM
Ethylbenzene	ND	0.047		mg/Kg	1	8/15/2020 2:57:13 PM
Xylenes, Total	ND	0.094		mg/Kg	1	8/15/2020 2:57:13 PM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	8/15/2020 2:57:13 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 7:27:36 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S8, 3'
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:40:00 AM
Lab ID: 2008617-026 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/14/2020 2:40:53 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/14/2020 2:40:53 AM
Surr: DNOP	31.5	30.4-154		%Rec	1	8/14/2020 2:40:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/15/2020 3:20:57 PM
Surr: BFB	100	75.3-105		%Rec	1	8/15/2020 3:20:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	8/15/2020 3:20:57 PM
Toluene	ND	0.050		mg/Kg	1	8/15/2020 3:20:57 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/15/2020 3:20:57 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/15/2020 3:20:57 PM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	8/15/2020 3:20:57 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 7:39:57 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: BG 1
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:44:00 AM
Lab ID: 2008617-027 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/14/2020 2:50:50 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/14/2020 2:50:50 AM
Surr: DNOP	94.6	30.4-154		%Rec	1	8/14/2020 2:50:50 AM
FIELD PARAMETERS						Analyst:
FieldSampler						
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/15/2020 3:44:40 PM
Surr: BFB	103	75.3-105		%Rec	1	8/15/2020 3:44:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	8/15/2020 3:44:40 PM
Toluene	ND	0.047		mg/Kg	1	8/15/2020 3:44:40 PM
Ethylbenzene	ND	0.047		mg/Kg	1	8/15/2020 3:44:40 PM
Xylenes, Total	ND	0.095		mg/Kg	1	8/15/2020 3:44:40 PM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	8/15/2020 3:44:40 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 7:52:17 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: BG 2
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:48:00 AM
Lab ID: 2008617-028 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/14/2020 3:00:53 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/14/2020 3:00:53 AM
Surr: DNOP	98.8	30.4-154		%Rec	1	8/14/2020 3:00:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/15/2020 4:08:27 PM
Surr: BFB	103	75.3-105		%Rec	1	8/15/2020 4:08:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	8/15/2020 4:08:27 PM
Toluene	ND	0.047		mg/Kg	1	8/15/2020 4:08:27 PM
Ethylbenzene	ND	0.047		mg/Kg	1	8/15/2020 4:08:27 PM
Xylenes, Total	ND	0.094		mg/Kg	1	8/15/2020 4:08:27 PM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	8/15/2020 4:08:27 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	59		mg/Kg	20	8/16/2020 8:29:19 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2008617**
Date Reported: **8/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: BG 3
Project: Beetle Juice 19 Fed 3H
Collection Date: 8/6/2020 10:52:00 AM
Lab ID: 2008617-029 **Matrix:** SOIL
Received Date: 8/12/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/14/2020 3:11:02 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/14/2020 3:11:02 AM
Surr: DNOP	88.0	30.4-154		%Rec	1	8/14/2020 3:11:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/15/2020 4:32:18 PM
Surr: BFB	104	75.3-105		%Rec	1	8/15/2020 4:32:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	8/15/2020 4:32:18 PM
Toluene	ND	0.049		mg/Kg	1	8/15/2020 4:32:18 PM
Ethylbenzene	ND	0.049		mg/Kg	1	8/15/2020 4:32:18 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/15/2020 4:32:18 PM
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	8/15/2020 4:32:18 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	8/16/2020 8:41:39 PM

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008617**

18-Aug-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 19 Fed 3H

Sample ID: **MB-54447** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **54447** RunNo: **71150**
Prep Date: **8/16/2020** Analysis Date: **8/16/2020** SeqNo: **2480659** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-54447** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **54447** RunNo: **71150**
Prep Date: **8/16/2020** Analysis Date: **8/16/2020** SeqNo: **2480660** 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			

Sample ID: **MB-54448** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **54448** RunNo: **71150**
Prep Date: **8/16/2020** Analysis Date: **8/16/2020** SeqNo: **2480689** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-54448** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **54448** RunNo: **71150**
Prep Date: **8/16/2020** Analysis Date: **8/16/2020** SeqNo: **2480690** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2008617**
18-Aug-20

Client: Pima Environmental Services LLC
Project: Beetle Juice 19 Fed 3H

Sample ID: **2008617-011AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S3, 2** Batch ID: **54381** RunNo: **71070**
Prep Date: **8/12/2020** Analysis Date: **8/14/2020** SeqNo: **2476930** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	9.4	46.86	0	124	47.4	136			
Surr: DNOP	5.3		4.686		112	30.4	154			

Sample ID: **2008617-011AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S3, 2** Batch ID: **54381** RunNo: **71070**
Prep Date: **8/12/2020** Analysis Date: **8/14/2020** SeqNo: **2476931** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	49.95	0	105	47.4	136	10.7	43.4	
Surr: DNOP	4.4		4.995		87.9	30.4	154	0	0	

Sample ID: **LCS-54375** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **54375** RunNo: **71070**
Prep Date: **8/12/2020** Analysis Date: **8/13/2020** SeqNo: **2476999** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		101	30.4	154			

Sample ID: **LCS-54378** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **54378** RunNo: **71070**
Prep Date: **8/12/2020** Analysis Date: **8/13/2020** SeqNo: **2477001** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	70	130			
Surr: DNOP	5.1		5.000		102	30.4	154			

Sample ID: **LCS-54381** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **54381** RunNo: **71070**
Prep Date: **8/12/2020** Analysis Date: **8/13/2020** SeqNo: **2477002** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	10	50.00	0	122	70	130			
Surr: DNOP	5.3		5.000		106	30.4	154			

Sample ID: **MB-54375** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **54375** RunNo: **71070**
Prep Date: **8/12/2020** Analysis Date: **8/13/2020** SeqNo: **2477003** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		124	30.4	154			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
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#: **2008617**

18-Aug-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 19 Fed 3H

Sample ID: **MB-54378**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **54378**	RunNo: **71070**
Prep Date: **8/12/2020**	Analysis Date: **8/13/2020**	SeqNo: **2477005** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		99.6	30.4	154			

Sample ID: **MB-54381**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **54381**	RunNo: **71070**
Prep Date: **8/12/2020**	Analysis Date: **8/13/2020**	SeqNo: **2477006** 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	11		10.00		107	30.4	154			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
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#: **2008617**

18-Aug-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 19 Fed 3H

Sample ID: **2008617-014ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **S4, 1'** Batch ID: **54376** RunNo: **71098**

Prep Date: **8/12/2020** Analysis Date: **8/15/2020** SeqNo: **2477925** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.9	24.44	0	83.4	61.3	114			
Surr: BFB	1100		977.5		110	75.3	105			S

Sample ID: **2008617-014amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **S4, 1'** Batch ID: **54376** RunNo: **71098**

Prep Date: **8/12/2020** Analysis Date: **8/15/2020** SeqNo: **2477926** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	23.85	0	89.1	61.3	114	4.22	20	
Surr: BFB	1100		954.2		111	75.3	105	0	0	S

Sample ID: **lcs-54376** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **54376** RunNo: **71098**

Prep Date: **8/12/2020** Analysis Date: **8/14/2020** SeqNo: **2477936** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.4	72.5	106			
Surr: BFB	1100		1000		112	75.3	105			S

Sample ID: **mb-54376** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **54376** RunNo: **71098**

Prep Date: **8/12/2020** Analysis Date: **8/14/2020** SeqNo: **2477938** 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	980		1000		98.0	75.3	105			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2008617**
18-Aug-20

Client: Pima Environmental Services LLC
Project: Beetle Juice 19 Fed 3H

Sample ID: **2008617-013ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S4, 0"-6"** Batch ID: **54376** RunNo: **71098**
Prep Date: **8/12/2020** Analysis Date: **8/15/2020** SeqNo: **2477958** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9533	0	91.3	76.3	120			
Toluene	0.90	0.048	0.9533	0	94.3	78.5	120			
Ethylbenzene	0.92	0.048	0.9533	0	96.7	78.1	124			
Xylenes, Total	2.8	0.095	2.860	0.01585	96.1	79.3	125			
Surr: 4-Bromofluorobenzene	0.98		0.9533		103	80	120			

Sample ID: **2008617-013amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S4, 0"-6"** Batch ID: **54376** RunNo: **71098**
Prep Date: **8/12/2020** Analysis Date: **8/15/2020** SeqNo: **2477959** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9425	0	91.8	76.3	120	0.526	20	
Toluene	0.90	0.047	0.9425	0	95.4	78.5	120	0.0118	20	
Ethylbenzene	0.92	0.047	0.9425	0	97.4	78.1	124	0.468	20	
Xylenes, Total	2.8	0.094	2.828	0.01585	97.8	79.3	125	0.592	20	
Surr: 4-Bromofluorobenzene	0.98		0.9425		104	80	120	0	0	

Sample ID: **LCS-54376** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **54376** RunNo: **71098**
Prep Date: **8/12/2020** Analysis Date: **8/14/2020** SeqNo: **2477969** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.7	80	120			
Toluene	0.96	0.050	1.000	0	95.9	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID: **mb-54376** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **54376** RunNo: **71098**
Prep Date: **8/12/2020** Analysis Date: **8/14/2020** SeqNo: **2477970** 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		101	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008617**

18-Aug-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 19 Fed 3H

Sample ID: **lcs-54366** SampType: **LCS4** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **BatchQC** Batch ID: **54366** RunNo: **71073**

Prep Date: **8/12/2020** Analysis Date: **8/13/2020** SeqNo: **2477067** 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	97.4	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.9	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.6	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130			
Surr: Toluene-d8	0.48		0.5000		96.3	70	130			

Sample ID: **mb-54366** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **PBS** Batch ID: **54366** RunNo: **71073**

Prep Date: **8/12/2020** Analysis Date: **8/13/2020** SeqNo: **2477068** 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: 1,2-Dichloroethane-d4	0.49		0.5000		97.6	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.47		0.5000		94.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008617**

18-Aug-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 19 Fed 3H

Sample ID: **lcs-54366**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **54366**	RunNo: **71073**
Prep Date: **8/12/2020**	Analysis Date: **8/13/2020**	SeqNo: **2477093** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.7	70	130			
Surr: BFB	520		500.0		103	70	130			

Sample ID: **mb-54366**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **54366**	RunNo: **71073**
Prep Date: **8/12/2020**	Analysis Date: **8/13/2020**	SeqNo: **2477094** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	490		500.0		97.7	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 Servi** Work Order Number: **2008617** RcptNo: **1**

8/12/20

Received By: **Scott Anderson** **8/12/2020** @ 0750

Completed By: **Isaiah Ortiz** **8/12/2020 8:59:22 AM** I-04

Reviewed By: LR 8/12/20

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° 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: SPA 8.12.20

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Not Present			
2	4.0	Good	Not Present			
3	6.2	Good	Not Present			

Chain-of-Custody Record

Client: Pima Environmental

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

Phone #: 575-631-6977

email or Fax#: Chris@Pimaoil.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Beetle Juice 19 Fed #3H

Project #: ~~10~~ 20869483

Project Manager: Chris Jones

Sampler: Robert Carper

On Ice: ☒ Yes ☐ No

# of Coolers: 3

Cooler Temp(including CF): 3 = 3.3 3 = 3.4 4 = 0.6 tal = 4.0 = 6.7 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2008617	(BTEX) MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
8/6/20	9:00	Soil	S1, 0"-6"	Glass	ICE	001	X	X									X
	9:04		S1, 1'			002											
	9:08		S1, 2'			003											
	9:12		S1, 3'			004											
	9:16		S2, 0"-6"			005											
	9:20		S2, 1'			006											
	9:24		S2, 2'			007											
	9:28		S2, 3'			008											
	9:32		S3, 0"-6"			009											
	9:36		S3, 1'			010											
	9:40		S3, 2'			011											
	9:44		S3, 3'			012											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/11/20	0830				8/11/20	0830
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/11/20	1900		SPA Courier		8.12.20	7:50

Remarks: Bill to Devon

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

Chain-of-Custody Record

Client: Pima Environmental

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

Phone #: 575-631-6977

email or Fax#: chris@pimaoil.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Beetle Juice 19 Fed 1H 3H

Project #: 20869483

Project Manager: Chris Jones

Sampler: Robert Lafon

On Ice: ☒ Yes ☐ No

# of Coolers: 3

Cooler Temp(including CF): 3 = 3.3 + 0.1 = 3.4 (°C)
2 = 3.3 + 0.1 = 3.4
4 = 6.6 + 0.1 = 6.7

HEAL No. 2008617

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
8/6/20	9:48	Soil	S4, 0"-6"	Glass	ICE	013	X	X									X
	9:52		S4, 1'			014											
	9:56		S4, 2'			015											
	10:00		S4, 3'			016											
	10:04		S5, 0"-6"			017											
	10:08		S6, 0"-6"			018											
	10:12		S7, 0"-6"			019											
	10:16		S7, 1'			020											
	10:20		S7, 2'			021											
	10:24		S7, 3'			022											
	10:28		S8, 0"-6"			023											
	10:32		S8, 1'			024											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/11/20	0830				8/11/20	0830
8/11/20	1900			5 PM Courier	8.12.20	7:50

Remarks: Bill to Devon

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

Analysis Request

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

Chain-of-Custody Record

Client: Pima Environmental

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

Phone #: 575-631-6977

email or Fax#: Chris@Pimaoil.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Beetle Juice 19 Fed #3H

Project #: ~~2~~ 20869483

Project Manager: Chris Jones

Sampler: Robert Cayon

On Ice: ☑ Yes ☐ No

# of Coolers: 3

Cooler Temp (including CF): 2 = 3.3 = 3.1
3 = 3.9 +0.1 = 4.0
4 = 6.6 -6.7 (°C)

5PA 8.12.20

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2008617	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
8/6/20	10:36	Soil	S8, 2'	Glass	ICE	025	X	X									X
	10:40		S8, 3'			026											
	10:44		BG1			027											
	10:48		BG2			028											
	10:52		BG3			029											

Labeled per sampler JAR

Sequence

Analysis Request

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

Date:	Time:	Relinquished by:	Received by:	Via:	Date Time
8/11/20	0830				8/11/20 0830
8/11/20	1900				

Date:	Time:	Relinquished by:	Received by:	Via:	Date Time
				5PA Courier	8.12.20 7:50

Remarks: Bill to Devon

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 27, 2020

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

RE: Beetle Juice 3H OrderNo.: 2010A38

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/22/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2010A38**
Date Reported: **10/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S-4 0-6"
Project: Beetle Juice 3H
Collection Date: 10/21/2020 2:45:00 PM
Lab ID: 2010A38-001 **Matrix:** SOIL **Received Date:** 10/22/2020 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	2300	93		mg/Kg	10	10/23/2020 1:01:07 PM	55992
Motor Oil Range Organics (MRO)	2900	470		mg/Kg	10	10/23/2020 1:01:07 PM	55992
Surr: DNOP	0	30.4-154	S	%Rec	10	10/23/2020 1:01:07 PM	55992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/24/2020 7:15:58 AM	55990
Surr: BFB	91.3	75.3-105		%Rec	1	10/24/2020 7:15:58 AM	55990

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2010A38**
27-Oct-20

Client: Pima Environmental Services LLC
Project: Beetle Juice 3H

Sample ID: **LCS-55992** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **55992** RunNo: **72876**
Prep Date: **10/22/2020** Analysis Date: **10/23/2020** SeqNo: **2562831** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.8	70	130			
Surr: DNOP	4.7		5.000		93.4	30.4	154			

Sample ID: **MB-55992** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **55992** RunNo: **72876**
Prep Date: **10/22/2020** Analysis Date: **10/23/2020** SeqNo: **2562833** 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	9.3		10.00		92.5	30.4	154			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
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#: **2010A38**

27-Oct-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 3H

Sample ID: **lcs-55990** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **55990** RunNo: **72897**

Prep Date: **10/22/2020** Analysis Date: **10/24/2020** SeqNo: **2562395** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.0	72.5	106			
Surr: BFB	1100		1000		107	75.3	105			S

Sample ID: **mb-55990** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **55990** RunNo: **72897**

Prep Date: **10/22/2020** Analysis Date: **10/24/2020** SeqNo: **2562397** 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	960		1000		96.1	75.3	105			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 2010A38

RcptNo: 1

Received By: Isaiah Ortiz 10/22/2020 7:40:00 AM

Completed By: Emily Mocho 10/22/2020 9:08:13 AM

Reviewed By: CM 10/22/20

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° 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 ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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 ☐	Checked by: JR 10/22/20

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Not Present			

Chain-of-Custody Record

Client: Pima Environmental

Mailing Address: 1601 N. Turner STE 500
Hobbs, NM 88240

Phone #: 575-631-6977

email or Fax#: Chris@PimaOil.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Beetle Juice 3H

Project #: 2086483

Project Manager: Chris Jones

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.8-0(CF) 1.8 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2010A38	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10/21	2:45	SOIL	S-4 0-6"	Glass	ICE	001		✓								

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date Time
10/21/20	1400				10/21/20 1400
10/21/20	1900				10/22/20 0740

Remarks: Bill To Devon

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

CARDINAL Laboratories

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

April 20, 2021

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: BEATLEJUICE 19 FED 3H

Enclosed are the results of analyses for samples received by the laboratory on 04/16/21 9:10.

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

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received:	04/16/2021	Sampling Date:	04/14/2021
Reported:	04/20/2021	Sampling Type:	Soil
Project Name:	BEATLEJUICE 19 FED 3H	Sampling Condition:	** (See Notes)
Project Number:	1-12	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: S - 4 SURFACE (H210971-01)

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2021	ND	210	105	200	0.252	
DRO >C10-C28*	<10.0	10.0	04/19/2021	ND	229	115	200	5.09	
EXT DRO >C28-C36	<10.0	10.0	04/19/2021	ND					

Surrogate: 1-Chlorooctane	*90.4 %*	*44.3-144*
Surrogate: 1-Chlorooctadecane	*84.7 %*	*42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Pima Environmental
Project Manager:	Tom Bynum
Address:	1601 N Turner
City:	Hobbs State: NM Zip: 88240
Phone #:	580-748- Fax #:
Project #:	1-12 Project Owner:
Project Name:	Beetlejuice 19 Fed 3H
Project Location:	
Sampler Name:	Sebastian Ornelas

BILL TO

P.O. #:	2086483
Company:	Devon
Attn:	Wes Mathews
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

TPH

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH
H210971															
1	S-4 Surface	G				X					X		4/14/21	0800	X

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 4/16/21	Received By:	Tamara Oldaker
	Time: 0910		
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:

REMARKS:

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113
Correction Factor None

Bacteria (only) Sample Condition
Cool Intact
☐ Yes ☐ Yes
☐ No ☐ No
Observed Temp. °C
Corrected Temp. °C

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C 13.7
Corrected Temp. °C

Sample Condition
Cool Intact
☐ Yes ☑ Yes
☑ No ☐ No

CHECKED BY: (Initials) TO

FORM-006 R 3.1 06/04/20

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

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

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

CONDITIONS

Action 24967

CONDITIONS

Operator: Pima Environmental Services, LLC 5614 N Lovington Hwy Hobbs, NM 88240	OGRID: 329999
	Action Number: 24967
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	9/19/2022