of New Mexico

Incident ID	NAB1603649137
District RP	
Facility ID	
Application ID	

# **Site Assessment/Characterization**

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.								
What is the shallowest depth to groundwater beneath the area affected by the release?	_639(ft l	bgs)						
Did this release impact groundwater or surface water?								
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?								
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?								
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No	0						
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	0						
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?								
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?								
Are the lateral extents of the release within 300 feet of a wetland?								
Are the lateral extents of the release overlying a subsurface mine?								
Are the lateral extents of the release overlying an unstable area such as karst geology?								
Are the lateral extents of the release within a 100-year floodplain?	Yes X No	0						
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	Yes N	0						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of	soil						
Characterization Report Checklist: Each of the following items must be included in the report.								
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well</li> <li>Field data</li> </ul>	ls.							
X Data table of soil contaminant concentration data								
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								
X Topographic/Aerial maps								
Laboratory data including chain of custody								

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

Received by OCD: 3/24/2023 10:55:48 AM Form C-141 State of New Mexico
Page 4 Oil Conservation Division

	Page 2 of 101
Incident ID	NAB1603649137
District RP	
Facility ID	

Application ID

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Dale Woodall Title: Environmental Professional Printed Name: Signature: Dals Woodall 3/24/2023 Date: email: dale.woodall@dvn.com Telephone: \_\_575-748-1839 **OCD Only** 03/27/2023 Received by: Jocelyn Harimon Date:

Page 3 of 101

Incident ID	NAB1603649137
District RP	
Facility ID	
Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following it	ems must be included in the closure report.						
X A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC						
X Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office						
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)						
Description of remediation activities							
may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the Other Printed Name:  Dale Woodall	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in						
	Telephone: 575-748-1839						
	•						
OCD Only							
Received by: Jocelyn Harimon	Date:03/27/2023						
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: <u>3/30/2023</u>						
Printed Name: Ashley Maxwell	Title: Environmental Specialist						



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

March 23<sup>rd</sup>, 2023

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

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

Re: Site Assessment, Remediation, and Closure Report

Tomb Raider 1 Fed 1H API No. 30-015-42655

GPS: Latitude 32.340580 Longitude -103.729401

UL -- B, Sec. 1, T23S, R31E

**Eddy County, NM** 

NMOCD Ref. No. NAB1603649137

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a spill assessment, remediation activities, and submit this closure report for a crude oil release that occurred at the Tomb Raider 1 Federal 1H (Tomb Raider). The initial C-141 was submitted on February 2<sup>nd</sup>, 2016 (Appendix C). This incident was assigned Incident ID NAB1603649137 by the New Mexico Oil Conservation Division (NMOCD).

#### **Site Characterization**

The Tomb Raider is located approximately twenty-two (22) miles northeast of Loving, NM. This spill site is in Unit B, Section 1, Township 23S, Range 31E, Latitude 32.340580 Longitude -103.729401, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the eolian and piedmont deposits (Holocene to middle Pleistocene). The soil in this area is made up of Maljamar and Palomas fine sands, 0 to 3 percent slopes, eroded according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present in the area of the Tomb Raider (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 639 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 486.60 feet BGS. The closest waterway is an unnamed salt playa, located approximately 12.15 miles to the southwest of this location. See Appendix A for referenced water surveys.

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

Reference Figure 2 for a Topographic Map.

#### **Release Information**

NAB1603649137: On February 2<sup>nd</sup>, 2016, the three-phase separator oil dump was closed, causing the vessel to swamp out resulting in a release from the vent tank. The pump was immediately shut down via the drive and then the tubing and casing valves were closed at the wellhead to prevent further release. Approximately 15 barrels of crude oil was released from the vent tank into the surrounding lined containment, with high winds blowing some contaminants onto the pad and surrounding equipment. The approximate area affected was 50 feet by 100 feet southeast of the vent tank. Approximately 10 barrels of oil remained in the lined containment and 5 barrels of the released oil escaped containment. All released oil was contained on pad. None of the released fluid left pad. Liner was checked for holes and no holes were found. A vacuum truck recovered approximately 12 barrels of oil, 10 barrels from the lined containment and 2 barrels on location.

#### **Liner Inspection**

On May 21, 2020, HRL conducted an inspection to evaluate the integrity of the liner. No tears or holes were observed in the liner. Based on this inspection, HRL has determined that the liner remains intact and had the ability to contain the release (Appendix F, Liner Inspection Form).

#### Remediation Activities, Site Assessment, and Soil Sampling Results

On April 6<sup>th</sup>, 2020, HRL conducted and initial site assessment in attempts of delineating the release. Soil samples were collected from 7 different locations (FS1, FS2, FS5, FS9, FS12, FS14, and FS15), and shipped for laboratory analysis. An initial site map can be found in Figure 4.

4-6-2020 Soil Sample Results											
HRL Delineation Event											
NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')											
	DEVON ENERGY - TOMB RAIDER 1 FED 1H										
Sample Date: 4/6/2020 NM Approved Laboratory Results											
Sample ID	Depth (BGS)	Cl Benzene BTEX GRO + DRO mg/kg mg/kg mg/kg mg/kg									
EC1	2"	95	ND	ND	12,000	24,000					
FS1	24"	ND	ND	ND	27	27					
FS2	1"	ND	ND	ND	ND	ND					
FS5	2"	ND	ND	ND	ND	ND					
FS9	4"	ND	ND	ND	ND	ND					
FS12	1"	ND	ND	ND	30	101					
FS14	2"	ND	ND	ND	ND	ND					
FS15	4"	ND	ND	ND	ND	ND					

ND: Analyte Non-Detect

#### **Remediation Activities:**

On June 25<sup>th</sup>, 2020, HRL guided excavation activities conducted by Wild West Services at the Tomb Raider. Excavation was completed by hand digging the impacted wind-blown sand, approximately one to two inches of the engineered pad was removed. The area excavated was 72 feet by 3 feet by 2 inches deep. Excavated soil was transported off-site for disposal at the R360 halfway facility. Confirmation soil samples were collected in accordance with 19.15.29.12 NMAC, in which one five-point composite soil sample was representative of an area no more than 200-square feet. Two composite soil samples (Tomb-East and Tomb-West) were collected from the final excavation footprint. A confirmation site map can be found in Figure 5.

2-25-2020 Confirmation Sampling Event

HRL Confirmation Sampling Event									
NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')									
DEVON ENERGY - TOMB RAIDER 1 FED 1H									
Sample Date: 6/	/25/2020	NM Approved Laboratory Results							
Sample ID	Depth (BGS)	Cl Benzene BTEX GRO + mg/kg mg/kg mg/kg mg/kg				TPH mg/kg			
Tomb-East	2''	95	ND	ND	170	320			
Tomb- West	2''	ND	ND	ND	ND	ND			

ND: Analyte Non-Detect

#### **Countermeasures Due to Rejection:**

On March 14<sup>th</sup>, 2023, Pima Environmental returned to the Tomb Raider and reassessed the areas previously sampled by HRL. Pima sampled the areas overlapping soil samples FS1 and FS12. Soil samples S1 and S2 represent HRL sample FS1, soil sample S3 represents HRL sample FS12. A site map can be found in Figure 6.

3-14-23 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <100')										
DEVON ENERGY - TOMB RAIDER 1 FED 1H										
Sample 3/14/2			NM Approved Laboratory Results							
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg l		Cl mg/kg		
	1'	ND	ND	ND	ND	ND	0	68		
S-1	3'	ND	ND	ND	ND	ND	0	81.5		
	4'	ND	ND	ND	ND	ND	0	34.3		
	1'	ND	ND	ND	ND	ND	0	ND		
S-2	2'	ND	ND	ND	ND	ND	0	ND		
	4'	ND	ND	ND	ND	ND	0	ND		
	1'	ND	ND	ND	ND	ND	0	ND		
S-3	2'	ND	ND	ND	ND	ND	0	ND		
	4'	ND	ND	ND	ND	ND	0	ND		
SW-1	6"	ND	ND	ND	ND	ND	0	ND		
SW-2	6"	ND	ND	ND	ND	ND	0	ND		
SW-3	6"	ND	ND	ND	ND	ND	0	ND		
SW-4	6"	ND	ND	ND	ND	ND	0	ND		

ND: Analyte Non-Detect

Based on the sample results, the bottoms and sidewalls are below NMOCD Closure Criteria 19.15.29 NMAC. See Appendix D for Photographic Documentation.

#### **Closure Request**

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

After careful review, Pima requests that this incident, NAB1603649137 be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Sebastian Orozco at 619-721-4813 or <a href="mailto:Sebastian@pimaoil.com">Sebastian@pimaoil.com</a>.

Respectfully,

Sebastian Orozeo

Sebastian Orozco Environmental Professional Pima Environment Services, LLC

#### **Attachments**

#### Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- HRL Initial Delineation Map
- 5- HRL Confirmation Map
- 6- Pima Initial Site Map

#### Appendices:

Appendix A – Referenced Water Surveys

Appendix B - Soil Survey and Geological Data

Appendix C – C-141 Form

Appendix D – Photographic Documentation

Appendix E – Laboratory Reports

Appendix F - Liner Inspection Form

Appendix G – HRL Rejected Closure Report



# Figures:

1-Location Map

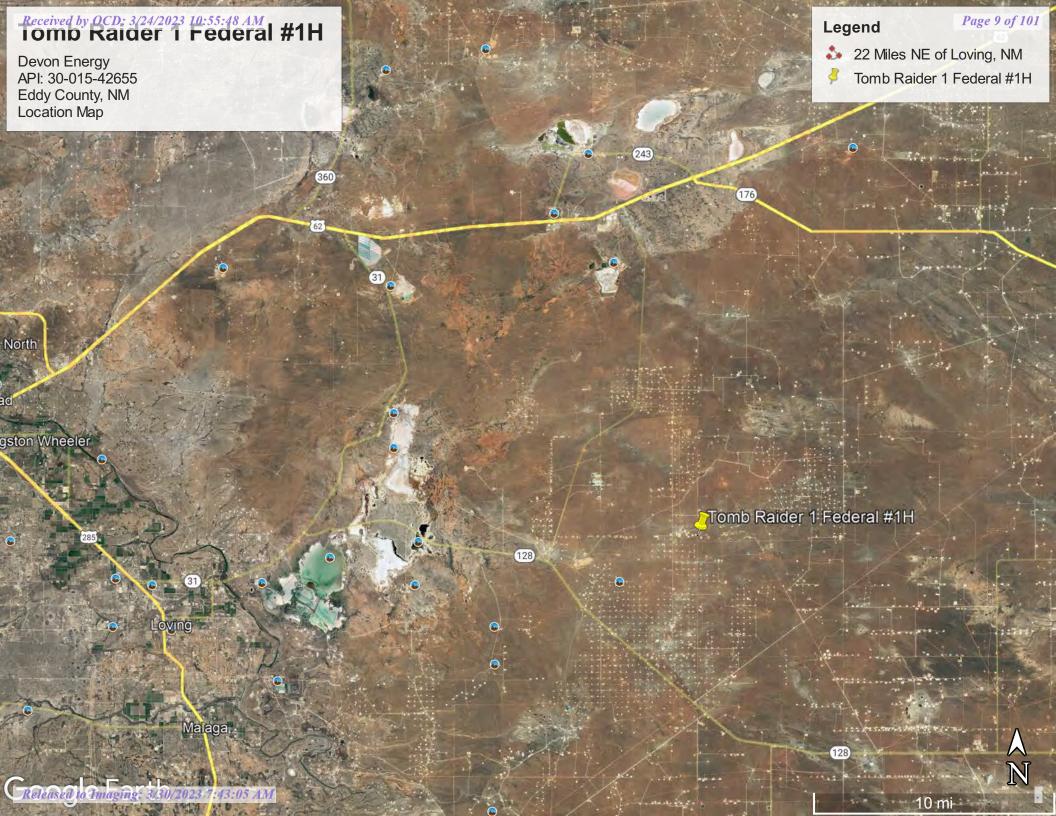
2-Topographic Map

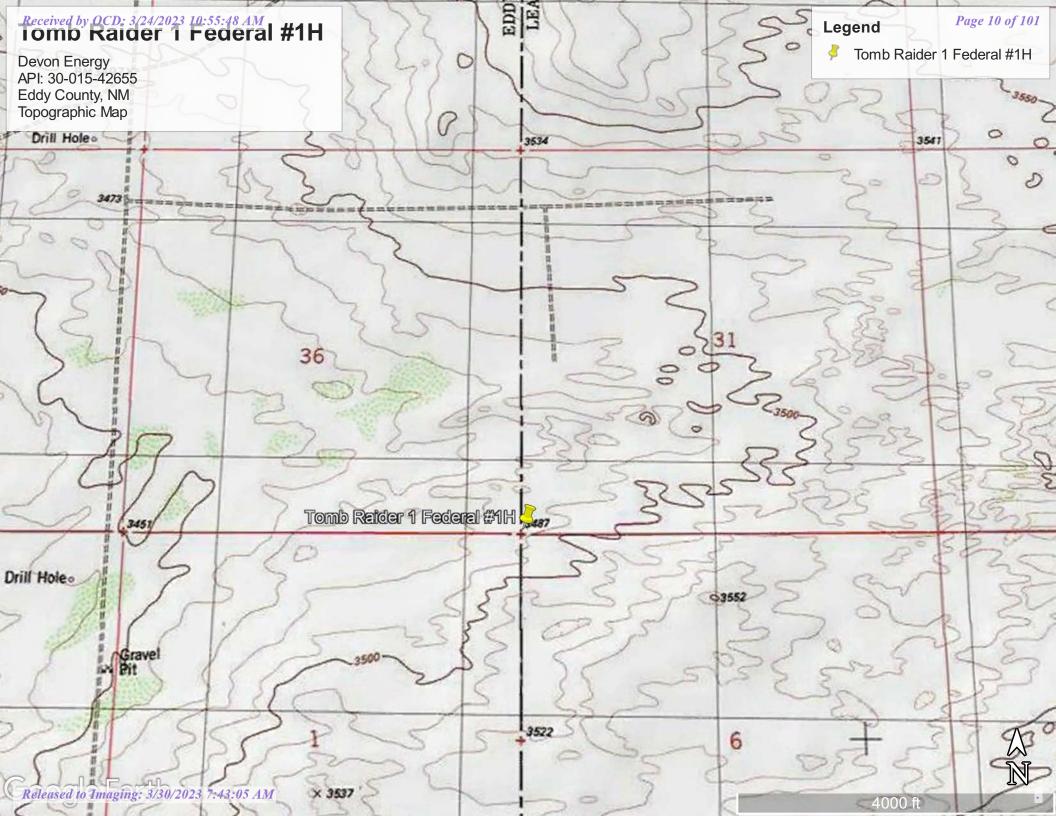
3-Karst Map

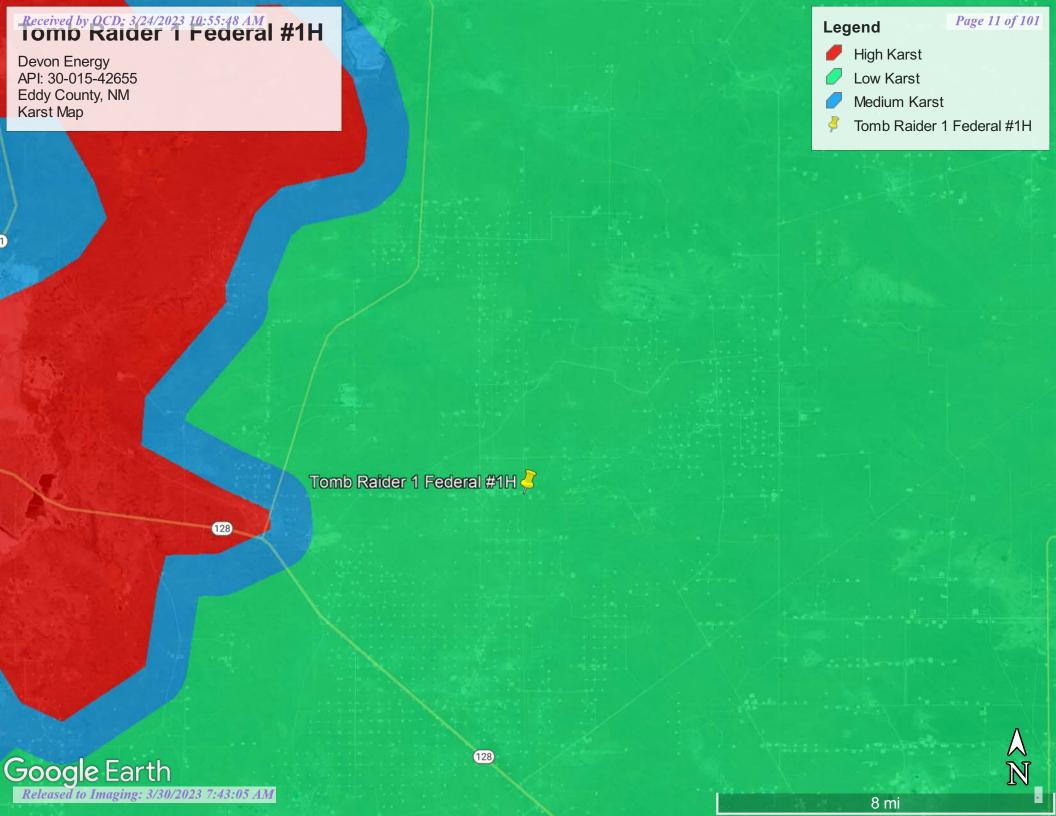
4-HRL Initial Site Map

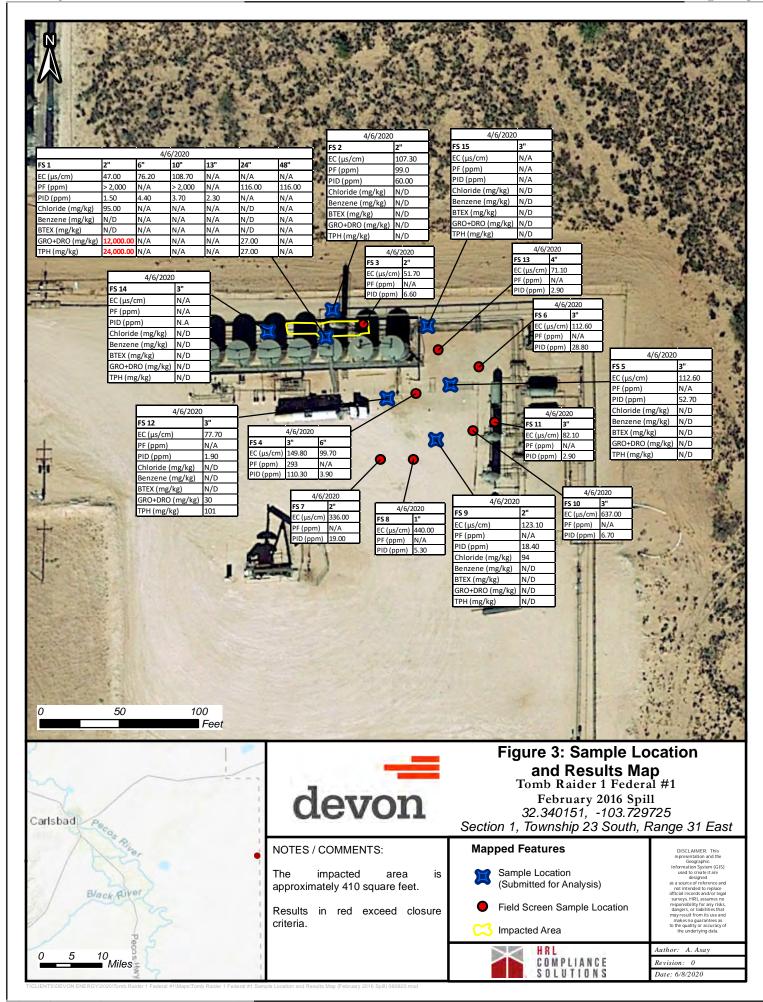
5- HRL Confirmation Map

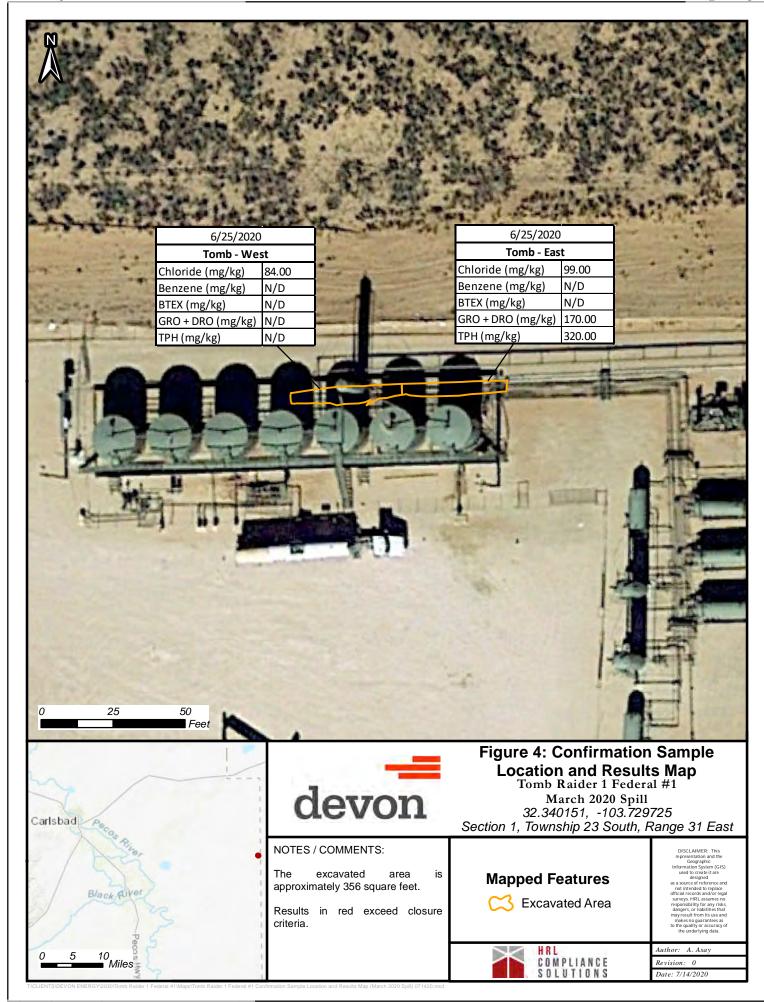
6- Pima Initial Site Map

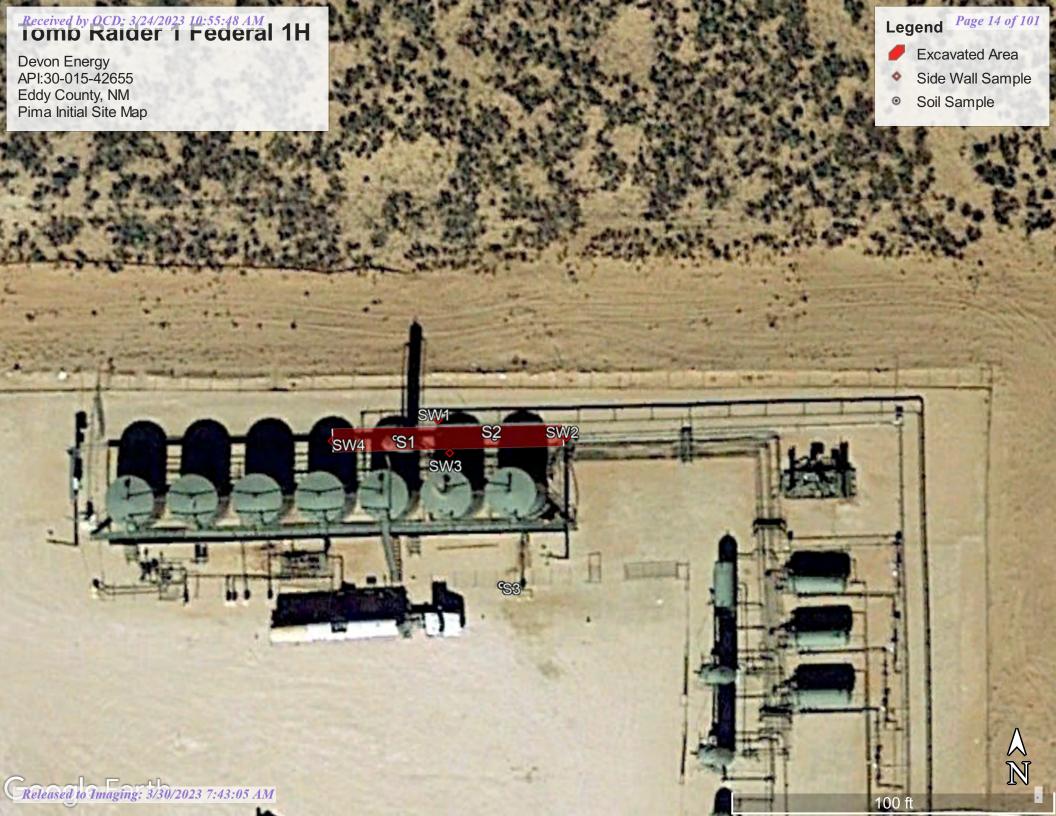














# Appendix A

Water Surveys:

OSE

**USGS** 

Surface Water Map



# New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

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

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

closed)

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

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

(In feet)

		POD													
non 1/	~ .	Sub-			Q		~	_	_						Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDe	pthWellDe <sub>l</sub>	oth Water (	Column
C 04663 POD1		CUB	LE	3	1	2	31	22S	32E	621181	3580341	1740	110		
<u>C 02756</u>		CUB	ED	3	4	4	26	22S	31E	618250	3580606*	2564	1998		
<u>C 03152</u>		CUB	ED	3	4	4	26	22S	31E	618250	3580606*	2564	938		
C 04598 POD1		CUB	LE	2	3	1	29	22S	32E	622069	3581570	3256	56		
<u>C 03138</u>		CUB	ED	3	3	3	26	22S	31E	617043	3580591*	3555	750		
<u>C 02939</u>		С	LE	3	3	1	19	22S	32E	620234	3583042*	4124	280		
<u>C 02777</u>		CUB	ED	4	4	4	10	23S	31E	616974	3575662	4569	890		
<u>C 03749 POD1</u>		CUB	ED		2	2	15	23S	31E	616974	3575662	4569	865	639	226
<u>C 02773</u>		CUB	ED	4	1	3	03	23S	31E	615668	3577762*	4658	880		
C 02769 POD2		CUB	ED	4	2	4	33	22S	31E	615261	3579312	4935	753	428	325
<u>C 02687</u>		CUB	ED	4	2	4	33	22S	31E	615246	3579364*	4954	779		
<u>C 02769</u>		CUB	ED	2	2	4	33	22S	31E	615246	3579564*	4976	765		

Average Depth to Water:

533 feet

Minimum Depth:

428 feet

Maximum Depth:

639 feet

Record Count: 12

<u>UTMNAD83 Radius Search (in meters):</u>

**Easting (X):** 620180.7 **Northing (Y):** 3578917.8 **Radius:** 5000

\*UTM location was derived from PLSS - see Help

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

3/7/23 11:21 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home Contact USGS Search USGS

## **National Water Information System: Web Interface**

**USGS Water Resources** 

Data Category:	Geographic Area:	
Groundwater ~	United States	<b>∨</b> GO

#### Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water <u>data</u> from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

#### Search Results -- 1 sites found

site\_no list =

• 321952103400801

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

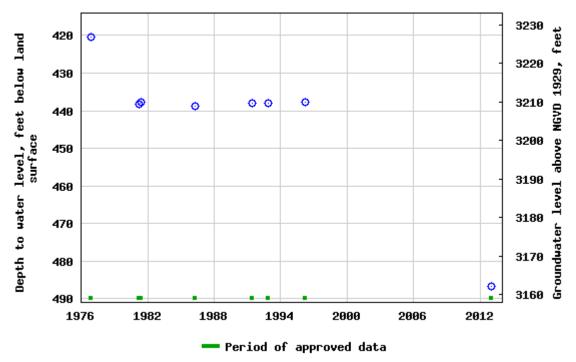
#### USGS 321952103400801 23S.32E.03.311114

Available data for this site	Groundwater:	Field measurements	<b>∨</b> GO	
Lea County, New Mexico				
Hydrologic Unit Code 1306	0011			
Latitude 32°19'59.2", Lon	gitude 103°	40'12.6" NAD83		
Land-surface elevation 3,6	48.00 feet	above NGVD29		
The depth of the well is 63	0 feet below	w land surface.		
This well is completed in the	ne Other aq	uifers (N9999OTh	HER) natio	onal aquifer.
This well is completed in th	ne Santa Ro	sa Sandstone (23	31SNRS)	local aquifer.

**Output formats** 

Table of data	
<u>Tab-separated data</u>	
Graph of data	
Reselect period	

#### USGS 321952103400801 235.32E.03.311114



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

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

Accessibility

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Policies and Notices

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

Title: Groundwater for USA: Water Levels

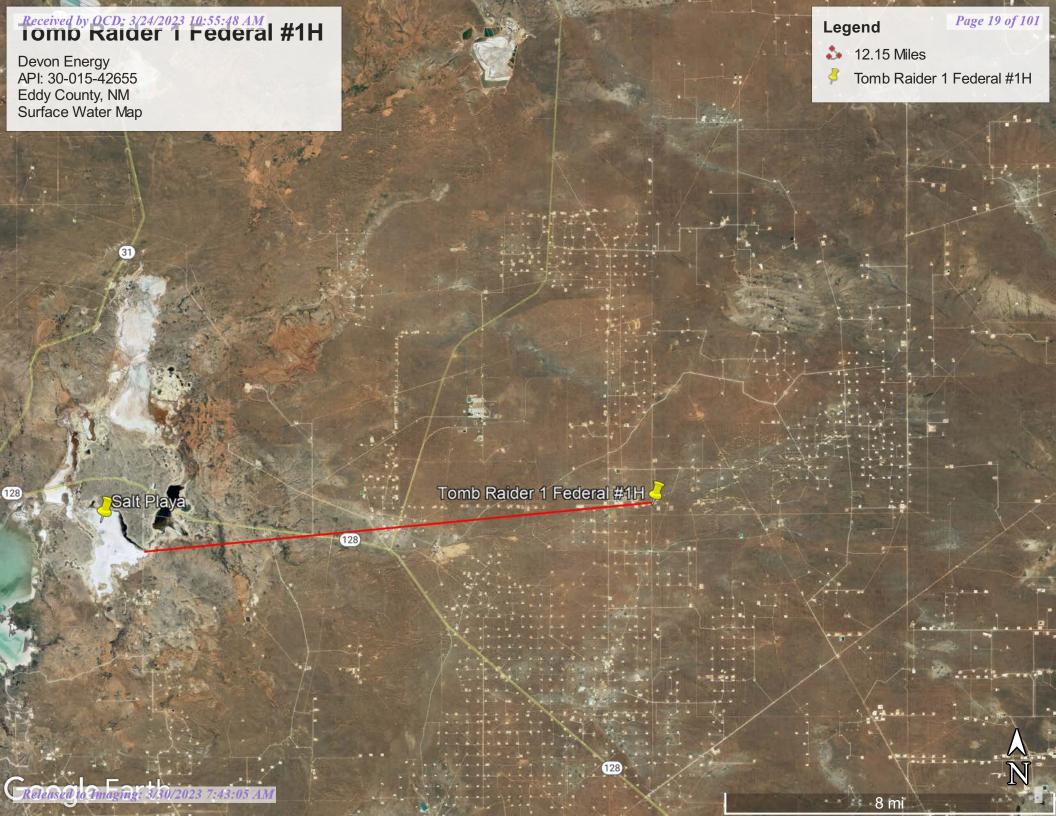
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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

Page Last Modified: 2023-03-07 13:19:41 EST

0.61 0.51 nadww02







# Appendix B

Soil Survey & Geological Data FEMA Flood Map Wetlands Map

## Lea County, New Mexico

#### MF—Maljamar and Palomas fine sands, 0 to 3 percent slopes

#### **Map Unit Setting**

National map unit symbol: dmqb Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Farmland of statewide importance

#### **Map Unit Composition**

Maljamar and similar soils: 46 percent Palomas and similar soils: 44 percent Minor components: 10 percent

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

#### **Description of Maljamar**

#### Setting

Landform: Plains

Landform position (three-dimensional): Rise

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

Parent material: Sandy eolian deposits derived from sedimentary

#### Typical profile

A - 0 to 24 inches: fine sand

Bt - 24 to 50 inches: sandy clay loam Bkm - 50 to 60 inches: cemented material

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: 40 to 60 inches to petrocalcic

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

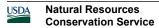
mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.6 inches)

#### Interpretive groups

Land capability classification (irrigated): 7e



Map Unit Description: Maljamar and Palomas fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico, and Lea County, New Mexico

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

#### **Description of Palomas**

#### Setting

Landform: Plains

Landform position (three-dimensional): Rise

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

Parent material: Alluvium derived from sandstone

#### **Typical profile**

A - 0 to 16 inches: fine sand

Bt - 16 to 60 inches: sandy clay loam Bk - 60 to 66 inches: sandy loam

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

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

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 45 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 7.5

inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

#### **Minor Components**

#### Kermit

Percent of map unit: 5 percent

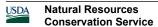
Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

#### Wink

Percent of map unit: 5 percent

Ecological site: R070BD003NM - Loamy Sand



Map Unit Description: Maljamar and Palomas fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico, and Lea County, New Mexico

Hydric soil rating: No

# **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 18, Sep 8, 2022 Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 19, Sep 8, 2022

# National Flood Hazard Layer FIRMette





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

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 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 OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 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 OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent

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

an authoritative property location.

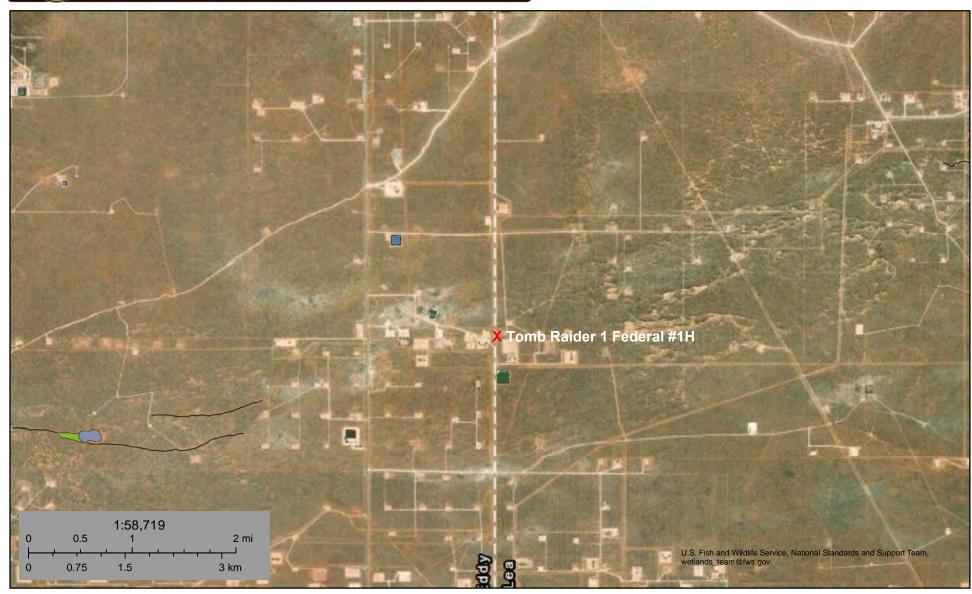
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/7/2023 at 1:39 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





# Wetlands Map



March 7, 2023

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake

Freshwater Forested/Shrub Wetland



Riverine

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



**Appendix C**C-141 Form

#### Received by OCD: 3/24/2023 10:55:48 AM

<u>District I</u> 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

### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. NM OIL CONSERVATION Page 27 of 101

ARTESIA DISTRICT

Form C-141 FEB **0 4 2016** Revised August 8, 2011

Submit 1 Copy to appropriate District Office in **RECEXMED** ce with 19.15.29 NMAC.

1220 S. St. 17ali	Santa Fe, NM 87505												
Release Notification and Corrective Action													
nabl(	003/04	6137				OPERA'	ГOR		✓ Initia	al Report	Г	Final F	Repor
					Contact Ruben Garcia, Assistant Production Foreman								
Address 64	88 Seven	Rivers Hwy	Artesia, l	NM 88210	7 7		No. 575-748-52			•			
Facility Na	me Tomb	Raider 1 Fed	leral #1H		]	Facility Ty	pe Oil						
Surface Ov	vner Fede	ral		Mineral	Owner :	Federal			API No	30-015-42	2655		
LOCATION OF RELEASE													
				South Line   Feet from the   East/West Line   County									
В	1	238	31Ĕ	200	1	North	2005		East	Eddy			
	L				240710	<b></b>	NV 102 77200	<u>.</u>		<u></u>			
<b>Latitude:</b> N 32.340710 <b>Longitude:</b> W 103.722955													
Type of Release Spill Oil  NATURE OF RELEASE  Volume of Release 15 BBLS  Volume Recovered 12 BBLS													
Type of Rele Source of Re		ווע					Hour of Occurre			Hour of Di			
Vent tank	cicasc					2/02/2016		iice		6 @ 4:50am	30010	CI y	
Was Immed	iate Notice	_				If YES, T							
		$\boxtimes$	Yes	No Not R	equired	OCD-Mike Bratcher BLM Shelly Tucker							
By Whom?	Brett Fulks.	EHS Professi	ional	W-118-11118-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		Date and				=			
•	,						16 @ 4:15pm						
Was a Wate	raourca Da	aahad?					16 @ 4:00pm	the W	atercourse				
was a wate	i course Re		Yes 🗵	No		If YES, Volume Impacting the Watercourse N/A							
If a Waterco	ourse was I	mpacted, Des	scribe Ful	ly.* N/A		i	·			<del></del>			
Describe Ca	use of Prol	blem and Ren	nedial Ac	tion Taken.*									
The three ph	ase separato	or oil <mark>d</mark> ump hu	ing closed	causing the vesse			ing in a release fr		vent tank. T	he pump wa	as im	mediately	shut
down via the	drive and t	hen the tubing	g and casir	ig valves were clo	osed at th	e wellhead t	o prevent further i	release.					
Describe Ar	ea Affected	l and Cleanu	p Action '	Γaken.*									
15 BBLS of	oil was rele	ased from the	vent tank	into the surround	ling lined	containmen	and high winds b	olew so	me of the re	leased oil or	nto th	e pad and	J
containment	equipment.	The approxim	nate area a and oil esc	Hected was 50H a	x 10010 Se All rele	outneast of t ased oil was	ne vent tank. Appropried on pad	roximai None	of the releas	S on remair sed fluid left	ned in mad.	the fined Liner was	s
checked for l	holes and no	o holes were f	ound. Vac	uum truck recove	red appr	oximately 12	BBLS of oil, 10	BBLS	from the lin	ed containm	ent a	nd 2 BBL	S on
				ed for remediation									
Lhereby cert	ify that the	information g	iven above	e is true and com	olete to th	ne best of my	knowledge and u	ındersta	and that pur	suant to NM	OCD	rules and	
regulations a	ll operators	are required t	o report a	nd/or file certain :	release no	otifications a	nd perform correct	ctive ac	tions for rel	eases which	may	endanger	
public health	or the envi	ronment, The	acceptan	ce of a C-141 rep	ort by the	NMOCD n	narked as "Final R	leport"	does not rel	ieve the ope	rator	of liability	y
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													
		ws and/or regi		plance of a C-141	героп а	oes not renev	e the operator of	respons	sionity for c	omphance v	vitii a	my other	
							OIL CON	SERV	VATION	DIVISIO	<u>NC</u>		
Signature: Sarah Gallegos-Troublefield													
Printed Name: Sarah Gallegos-Troublefield				Signed By Mike Signed By Approved by Environmental Specialist:									
•							DKIII.	2		Data: W\I	A		
Title: Field A	Title: Field Admin Support  Approval Date: Approval Date: DEXPIRATION Date: NET												
E-mail Address: Sarah.Gallegos-Troublefield@dvn.com					Conditions o	f Approval: ion per O.C.D	. Rule	s & Guld	ellnogched	i 🗆			

SUBMIT REMEDIATION PROPOSAL NO

LATER THAN: OBLA

\* Attach Additional Sheets If Necessary

Date:2/2/2016

Phone: 575.748.1864

#### Bratcher, Mike, EMNRD

From: Gallegos-Troublefield, Sarah <Sarah.Gallegos-Troublefield@dvn.com>

Sent: Thursday, February 04, 2016 4:15 PM

To: jamos@blm.gov; stucker@blm.gov; Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD

Cc: Scrogum, Sandy

**Subject:** Tomb Raider 1 Federal #1H

Attachments: Tomb Raider 1 Fed 1 15 BBL Oil-2-2-16 Initial C-141.doc; Tomb Raider 1 Fed 1\_15 BBL

Oil-2-2-16 Pic 1 of 1.jpg; Tomb Raider 1 Fed 1\_15 BBL Oil-2-2-16 GIS Image.pdf

#### Good afternoon,

Attached is the Initial C-141, GIS Image and photo of the 15 BBLS oil release that occurred at the Tomb Raider 1 Federal 1 on 2/02/2016. Please be advised that the blue dot on the GIS Image represents the approximate location of the origin of the release.

Please contact me for any questions you may have.

Thank you very much!

Respectfully,

Sarah Gallegos Troublefield Field Admin Support

Production

**Devon Energy Corporation** P.O. Box 250

Artesia, NM 88211 575 748 1864 Direct Line



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

	Page 29 of 101
Incident ID	NAB1603649137
District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

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

Did this release impact groundwater or surface water?  Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant	639 (ft bgs)  Yes X No  Yes X No				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant	Yes X No				
watercourse?					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X 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 X 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 X No				
Are the lateral extents of the release overlying a subsurface mine?	Yes X No				
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No				
Are the lateral extents of the release within a 100-year floodplain?					
Did the release impact areas <b>not</b> 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.					
<ul> <li>∑ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>∑ Field data</li> <li>∑ Data table of soil contaminant concentration data</li> <li>∑ Depth to water determination</li> <li>∑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>☐ Boring or excavation logs</li> <li>∑ Photographs including date and GIS information</li> <li>∑ Topographic/Aerial maps</li> <li>∑ Laboratory data including chain of custody</li> </ul>					

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

Received by OCD: 3/24/2023 10:55:48 AM Form C-141 State of New Mexico
Page 4 Oil Conservation Division

	Page 30 of 101
Incident ID	NAB1603649137
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: Environmental Professional Dale Woodall Printed Name: Signature: Dale Woodall Date: 3/24/2023 email: dale.woodall@dvn.com Telephone: 575-748-1839 **OCD Only** Received by: Date:

ate of New Mexico

Incident ID	NAB1603649137
District RP	
Facility ID	
Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.						
X A scaled site and sampling diagram as described in 19.15.29.11 NMAC						
Nhotographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)						
X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)						
Description of remediation activities						
may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the conaccordance with 19.15.29.13 NMAC including notification to the O	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.  Title: Environmental Professional					
email: dale.woodall@dvn.com	Telephone: 575-748-1839					
OCD Only						
Received by:	Date:					
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.					
Closure Approved by:	Date:					
Printed Name:	Title:					



# Appendix D

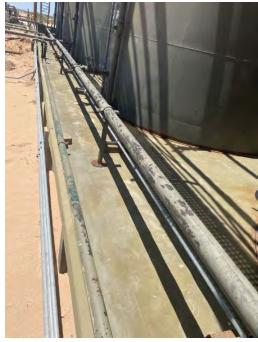
Photographic Documentation



Liner Integrity
Inspection –
south side of
battery, view
to the east



Liner Integrity
Inspection –
north side of
battery, view
to the east





Liner Integrity
Inspection –
south side of
battery, view
to the east



Area of hydrocarbon impacted soil on north side of battery prior to remediation, view to the east







View of well pad to the east



View of well pad to the north





Post remediation, view to the east



Post remediation, view to the east









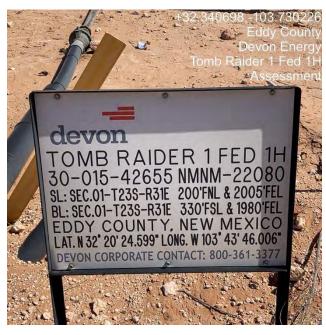
Post remediation, close-up of excavated area





# SITE PHOTOGRAPHS DEVON ENERGY TOMB RAIDER 1 FED 1H

Site Assessment

















### Appendix E

**Laboratory Reports** 



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

April 16, 2020

Tom Bynum Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176

FAX:

RE: Tomb Raider 1 Fed 1H OrderNo.: 2004423

#### Dear Tom Bynum:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/9/2020 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/16/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: FS1

 Project:
 Tomb Raider 1 Fed 1H
 Collection Date: 4/6/2020 9:39:00 AM

 Lab ID:
 2004423-001
 Matrix: SOIL
 Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst: CLP
Diesel Range Organics (DRO)	12000	930		mg/Kg	100	4/11/2020 4:26:21 PM
Motor Oil Range Organics (MRO)	12000	4600		mg/Kg	100	4/11/2020 4:26:21 PM
Surr: DNOP	0	55.1-146	S	%Rec	100	4/11/2020 4:26:21 PM
EPA METHOD 300.0: ANIONS						Analyst: <b>JMT</b>
Chloride	95	60		mg/Kg	20	4/11/2020 10:04:11 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIS</b>	Т					Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/11/2020 11:53:33 AM
Toluene	ND	0.049		mg/Kg	1	4/11/2020 11:53:33 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/11/2020 11:53:33 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/11/2020 11:53:33 AM
Surr: 1,2-Dichloroethane-d4	89.5	70-130		%Rec	1	4/11/2020 11:53:33 AM
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	4/11/2020 11:53:33 AM
Surr: Dibromofluoromethane	97.6	70-130		%Rec	1	4/11/2020 11:53:33 AM
Surr: Toluene-d8	93.6	70-130		%Rec	1	4/11/2020 11:53:33 AM
EPA METHOD 8015D MOD: GASOLINE RANGE	<b></b>					Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/11/2020 11:53:33 AM
Surr: BFB	97.6	70-130		%Rec	1	4/11/2020 11:53:33 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

Page 1 of 13

Date Reported: 4/16/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: FS1-24

 Project:
 Tomb Raider 1 Fed 1H
 Collection Date: 4/6/2020 1:33:00 PM

 Lab ID:
 2004423-002
 Matrix: SOIL
 Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: CLP
Diesel Range Organics (DRO)	27	9.2	mg/Kg	1	4/11/2020 4:50:19 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/11/2020 4:50:19 PM
Surr: DNOP	94.6	55.1-146	%Rec	1	4/11/2020 4:50:19 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	ND	60	mg/Kg	20	4/11/2020 10:16:31 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst: <b>DJF</b>
Benzene	ND	0.024	mg/Kg	1	4/11/2020 3:10:35 AM
Toluene	ND	0.048	mg/Kg	1	4/11/2020 3:10:35 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/11/2020 3:10:35 AM
Xylenes, Total	ND	0.096	mg/Kg	1	4/11/2020 3:10:35 AM
Surr: 1,2-Dichloroethane-d4	90.1	70-130	%Rec	1	4/11/2020 3:10:35 AM
Surr: 4-Bromofluorobenzene	91.9	70-130	%Rec	1	4/11/2020 3:10:35 AM
Surr: Dibromofluoromethane	98.5	70-130	%Rec	1	4/11/2020 3:10:35 AM
Surr: Toluene-d8	97.8	70-130	%Rec	1	4/11/2020 3:10:35 AM
EPA METHOD 8015D MOD: GASOLINE RANGE	į				Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/11/2020 3:10:35 AM
Surr: BFB	101	70-130	%Rec	1	4/11/2020 3:10:35 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

Page 2 of 13

Date Reported: 4/16/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: FS2

 Project:
 Tomb Raider 1 Fed 1H
 Collection Date: 4/6/2020 9:41:00 AM

 Lab ID:
 2004423-003
 Matrix: SOIL
 Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	4/11/2020 5:14:14 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/11/2020 5:14:14 PM
Surr: DNOP	93.4	55.1-146	%Rec	1	4/11/2020 5:14:14 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	ND	60	mg/Kg	20	4/11/2020 10:28:51 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: DJF
Benzene	ND	0.023	mg/Kg	1	4/11/2020 3:39:19 AM
Toluene	ND	0.046	mg/Kg	1	4/11/2020 3:39:19 AM
Ethylbenzene	ND	0.046	mg/Kg	1	4/11/2020 3:39:19 AM
Xylenes, Total	ND	0.092	mg/Kg	1	4/11/2020 3:39:19 AM
Surr: 1,2-Dichloroethane-d4	89.1	70-130	%Rec	1	4/11/2020 3:39:19 AM
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	4/11/2020 3:39:19 AM
Surr: Dibromofluoromethane	99.2	70-130	%Rec	1	4/11/2020 3:39:19 AM
Surr: Toluene-d8	95.4	70-130	%Rec	1	4/11/2020 3:39:19 AM
EPA METHOD 8015D MOD: GASOLINE RANG	SE .				Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/11/2020 3:39:19 AM
Surr: BFB	103	70-130	%Rec	1	4/11/2020 3:39:19 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

Page 3 of 13

Date Reported: 4/16/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: FS5

 Project:
 Tomb Raider 1 Fed 1H
 Collection Date: 4/6/2020 9:49:00 AM

 Lab ID:
 2004423-004
 Matrix: SOIL
 Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/11/2020 5:38:13 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/11/2020 5:38:13 PM
Surr: DNOP	99.7	55.1-146	%Rec	1	4/11/2020 5:38:13 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	ND	60	mg/Kg	20	4/11/2020 10:41:12 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: <b>DJF</b>
Benzene	ND	0.024	mg/Kg	1	4/11/2020 4:08:03 AM
Toluene	ND	0.048	mg/Kg	1	4/11/2020 4:08:03 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/11/2020 4:08:03 AM
Xylenes, Total	ND	0.096	mg/Kg	1	4/11/2020 4:08:03 AM
Surr: 1,2-Dichloroethane-d4	87.3	70-130	%Rec	1	4/11/2020 4:08:03 AM
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	4/11/2020 4:08:03 AM
Surr: Dibromofluoromethane	100	70-130	%Rec	1	4/11/2020 4:08:03 AM
Surr: Toluene-d8	90.0	70-130	%Rec	1	4/11/2020 4:08:03 AM
EPA METHOD 8015D MOD: GASOLINE RANG	SE .				Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/11/2020 4:08:03 AM
Surr: BFB	98.8	70-130	%Rec	1	4/11/2020 4:08:03 AM

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

Qualifiers:

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

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

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Date Reported: 4/16/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: FS9

 Project:
 Tomb Raider 1 Fed 1H
 Collection Date: 4/6/2020 10:11:00 AM

 Lab ID:
 2004423-005
 Matrix: SOIL
 Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAI	NICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/11/2020 6:02:14 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/11/2020 6:02:14 PM
Surr: DNOP	66.8	55.1-146	%Rec	1	4/11/2020 6:02:14 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	94	60	mg/Kg	20	4/11/2020 11:18:14 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst: <b>DJF</b>
Benzene	ND	0.024	mg/Kg	1	4/11/2020 4:36:49 AM
Toluene	ND	0.048	mg/Kg	1	4/11/2020 4:36:49 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/11/2020 4:36:49 AM
Xylenes, Total	ND	0.096	mg/Kg	1	4/11/2020 4:36:49 AM
Surr: 1,2-Dichloroethane-d4	90.3	70-130	%Rec	1	4/11/2020 4:36:49 AM
Surr: 4-Bromofluorobenzene	93.0	70-130	%Rec	1	4/11/2020 4:36:49 AM
Surr: Dibromofluoromethane	96.3	70-130	%Rec	1	4/11/2020 4:36:49 AM
Surr: Toluene-d8	92.1	70-130	%Rec	1	4/11/2020 4:36:49 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/11/2020 4:36:49 AM
Surr: BFB	99.7	70-130	%Rec	1	4/11/2020 4:36:49 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

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Date Reported: 4/16/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: FS12

 Project:
 Tomb Raider 1 Fed 1H
 Collection Date: 4/6/2020 10:39:00 AM

 Lab ID:
 2004423-006
 Matrix: SOIL
 Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAI	NICS				Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	30	10	mg/Kg	1	4/14/2020 10:39:26 AM
Motor Oil Range Organics (MRO)	71	50	mg/Kg	1	4/14/2020 10:39:26 AM
Surr: DNOP	103	55.1-146	%Rec	1	4/14/2020 10:39:26 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	4/15/2020 3:52:43 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: <b>DJF</b>
Benzene	ND	0.024	mg/Kg	1	4/11/2020 5:05:32 AM
Toluene	ND	0.048	mg/Kg	1	4/11/2020 5:05:32 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/11/2020 5:05:32 AM
Xylenes, Total	ND	0.095	mg/Kg	1	4/11/2020 5:05:32 AM
Surr: 1,2-Dichloroethane-d4	91.4	70-130	%Rec	1	4/11/2020 5:05:32 AM
Surr: 4-Bromofluorobenzene	98.1	70-130	%Rec	1	4/11/2020 5:05:32 AM
Surr: Dibromofluoromethane	97.9	70-130	%Rec	1	4/11/2020 5:05:32 AM
Surr: Toluene-d8	92.2	70-130	%Rec	1	4/11/2020 5:05:32 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/11/2020 5:05:32 AM
Surr: BFB	103	70-130	%Rec	1	4/11/2020 5:05:32 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

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Date Reported: 4/16/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: FS14

 Project:
 Tomb Raider 1 Fed 1H
 Collection Date: 4/6/2020 2:33:00 PM

 Lab ID:
 2004423-007
 Matrix: SOIL
 Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/14/2020 11:51:39 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/14/2020 11:51:39 AM
Surr: DNOP	101	55.1-146	%Rec	1	4/14/2020 11:51:39 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	4/13/2020 6:46:18 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>	-				Analyst: DJF
Benzene	ND	0.024	mg/Kg	1	4/11/2020 5:34:01 AM
Toluene	ND	0.048	mg/Kg	1	4/11/2020 5:34:01 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/11/2020 5:34:01 AM
Xylenes, Total	ND	0.096	mg/Kg	1	4/11/2020 5:34:01 AM
Surr: 1,2-Dichloroethane-d4	93.1	70-130	%Rec	1	4/11/2020 5:34:01 AM
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	1	4/11/2020 5:34:01 AM
Surr: Dibromofluoromethane	98.0	70-130	%Rec	1	4/11/2020 5:34:01 AM
Surr: Toluene-d8	89.8	70-130	%Rec	1	4/11/2020 5:34:01 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/11/2020 5:34:01 AM
Surr: BFB	101	70-130	%Rec	1	4/11/2020 5:34:01 AM

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

Qualifiers:

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

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

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Date Reported: 4/16/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: FS15

 Project:
 Tomb Raider 1 Fed 1H
 Collection Date: 4/6/2020 2:36:00 PM

 Lab ID:
 2004423-008
 Matrix: SOIL
 Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	4/14/2020 12:15:42 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/14/2020 12:15:42 PM
Surr: DNOP	103	55.1-146	%Rec	1	4/14/2020 12:15:42 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	4/13/2020 6:58:39 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: <b>DJF</b>
Benzene	ND	0.025	mg/Kg	1	4/11/2020 6:02:34 AM
Toluene	ND	0.050	mg/Kg	1	4/11/2020 6:02:34 AM
Ethylbenzene	ND	0.050	mg/Kg	1	4/11/2020 6:02:34 AM
Xylenes, Total	ND	0.099	mg/Kg	1	4/11/2020 6:02:34 AM
Surr: 1,2-Dichloroethane-d4	88.5	70-130	%Rec	1	4/11/2020 6:02:34 AM
Surr: 4-Bromofluorobenzene	96.1	70-130	%Rec	1	4/11/2020 6:02:34 AM
Surr: Dibromofluoromethane	97.2	70-130	%Rec	1	4/11/2020 6:02:34 AM
Surr: Toluene-d8	94.0	70-130	%Rec	1	4/11/2020 6:02:34 AM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/11/2020 6:02:34 AM
Surr: BFB	103	70-130	%Rec	1	4/11/2020 6:02:34 AM

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

Qualifiers:

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

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2004423** 

16-Apr-20

**Client:** Devon Energy

**Project:** Tomb Raider 1 Fed 1H

Sample ID: MB-51736 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51736 RunNo: 68062

Prep Date: 4/11/2020 Analysis Date: 4/11/2020 SeqNo: 2352424 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-51736 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51736 RunNo: 68062

Prep Date: 4/11/2020 Analysis Date: 4/11/2020 SeqNo: 2352425 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.4 90 110

Sample ID: MB-51761 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51761 RunNo: 68091

Prep Date: 4/13/2020 Analysis Date: 4/14/2020 SeqNo: 2353972 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-51761 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51761 RunNo: 68091

Prep Date: 4/13/2020 Analysis Date: 4/14/2020 SeqNo: 2353973 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 90.6 90 110

#### Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 2004423 16-Apr-20

**Client: Devon Energy** 

**Project:** Tomb Raider 1 Fed 1H

Sample ID: MB-51703 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 51703 RunNo: 68041

Prep Date: 4/10/2020 Analysis Date: 4/11/2020 SeqNo: 2351310 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 55.1 9.2 10.00 92.4 146

Sample ID: LCS-51703 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS RunNo: 68041 Batch ID: 51703

Prep Date: 4/10/2020 Analysis Date: 4/11/2020 SeqNo: 2351311 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 70 50 50.00 101 130 Surr: DNOP 4.8 5.000 96.9 55.1 146

Sample ID: 2004423-006AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: FS12 Batch ID: 51745 RunNo: 68101

Prep Date: 4/12/2020 Analysis Date: 4/14/2020 SeqNo: 2354218 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 70 30.49 47.4 9.7 48.26 81.5 136

Surr: DNOP 4.7 4.826 96.7 55.1 146

Sample ID: 2004423-006AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: FS12 Batch ID: 51745 RunNo: 68101

Prep Date: 4/12/2020 Analysis Date: 4/14/2020 SeqNo: 2354219 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Diesel Range Organics (DRO) 64 9.6 48.22 30.49 69.1 47.4 136 9.01 43.4 Surr: DNOP 4.7 4.822 97.7 55.1 146 0 0

Sample ID: LCS-51745 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS

Client ID: LCSS Batch ID: 51745 RunNo: 68101

Prep Date: 4/12/2020 Analysis Date: 4/14/2020 SeqNo: 2354222 Units: mg/Kg

%RPD Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit **RPDLimit** LowLimit Qual Diesel Range Organics (DRO) 50 10 50.00 99.6 70 130

Surr: DNOP 4.6 5.000 92.4 55.1 146

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 10 of 13

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2004423** 

16-Apr-20

**Client:** Devon Energy

**Project:** Tomb Raider 1 Fed 1H

Sample ID: MB-51745 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 51745 RunNo: 68101

Prep Date: 4/12/2020 Analysis Date: 4/14/2020 SeqNo: 2354223 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 7.7 10.00 77.4 55.1 146

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2004423** 

16-Apr-20

**Client:** Devon Energy

**Project:** Tomb Raider 1 Fed 1H

Sample ID: <b>mb-51699</b>	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batcl	n ID: <b>51</b> 0	699	F	RunNo: 6	8033				
Prep Date: 4/9/2020	Analysis D	Date: 4/	10/2020	S	SeqNo: 2	351013	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025		_						
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.5	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.5	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.6	70	130			
Surr: Toluene-d8	0.47		0.5000		93.6	70	130			

Sample ID: Ics-51699	Samp	Type: <b>LC</b>	S	Tes	tCode: <b>EF</b>	PA Method	8260B: Volat	iles Short	List	
Client ID: LCSS	Batc	h ID: <b>51</b> 0	699	F	RunNo: 68	3033				
Prep Date: 4/9/2020	Analysis [	Date: 4/	10/2020	5	SeqNo: 2	351014	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.3	70	130			
Toluene	1.0	0.050	1.000	0	102 7		130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.2	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.3	70	130			
Surr: Dibromofluoromethane	0.47	0.47 0.5000			94.2 70		130			
Surr: Toluene-d8	0.46		0.5000		91.4	70	130			

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 2004423

16-Apr-20

**Client: Devon Energy** 

**Project:** Tomb Raider 1 Fed 1H

Sample ID: mb-51699 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

PBS Client ID: Batch ID: 51699 RunNo: 68033

Units: mg/Kg Prep Date: 4/9/2020 Analysis Date: 4/10/2020 SeqNo: 2351027

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 510 500.0 101 70 130

Sample ID: Ics-51699 TestCode: EPA Method 8015D Mod: Gasoline Range SampType: LCS

Client ID: LCSS Batch ID: 51699 RunNo: 68033

Prep Date: 4/9/2020 Analysis Date: 4/10/2020 SeqNo: 2351028 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 91.4 70 130 Surr: BFB 510 500.0 103 70

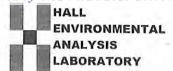
130

#### Qualifiers:

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

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

### Sample Log-In Check List

Client Name:	DEVON ENERGY	Work Order Numbe	r: <b>200</b>	4423		RcptNo: 1
Received By:	Juan Rojas	4/9/2020 8:25:00 AM			Juneary.	
Completed By:	Juan Rojas	4/9/2020 12:29:51 PN	1		Juneary	
Reviewed By:	LM.	419/20				
Chain of Cus	tody					
	ustody sufficiently comple	te?	Yes	<b>V</b>	No 🗌	Not Present
2. How was the	sample delivered?		Cou	rier		
Log In						
	pt made to cool the samp	bles?	Yes	~	No 🗌	NA 🗆
4. Were all samp	ples received at a tempera	ature of >0° C to 6.0°C	Yes	<b>V</b>	No 🗆	NA 🗀
5. Sample(s) in p	proper container(s)?		Yes	V	No 🗌	
6. Sufficient sam	ple volume for indicated t	est(s)?	Yes	~	No 🗆	
	except VOA and ONG) pr		Yes	~	No 🗌	
	tive added to bottles?		Yes		No 🗹	NA 🗆
9. Received at le	ast 1 vial with headspace	<1/4" for AQ VOA?	Yes		No 🗌	NA 🗹
10. Were any san	nple containers received l	oroken?	Yes		No 🗸	
a.i.						# of preserved bottles checked
	ork match bottle labels? ancies on chain of custody	۸	Yes	<b>V</b>	No 🗌	for pH: (<2 or >12 unless noted)
	correctly identified on Cha		Yes	~	No 🗆	Adjusted?
	t analyses were requested		Yes	V	No 🗆	
14. Were all holding	ng times able to be met? ustomer for authorization.		Yes	~	No 🗌	Checked by: SRU(a)
	ing (if applicable)	,				
	tified of all discrepancies	with this order?	Yes		No 🗌	NA 🗹
Person	Notified:	Date	-			
By Who	om:	Via:	eM	ail [	Phone Fax	☐ In Person
Regardi	ing:					
Client Ir	nstructions:					
16. Additional rea	marks:					
17. <u>Cooler Infor</u> Cooler No		Seal Intact Seal No	Seal D	ate	Signed By	

	. >	<b>=</b>			023	0::	55:48 A	M														Annie McCawley	Page 56 of
		0	Albuqueraue, NM 87109	x 505-345-4107	s Request	(10	nəsdA\t	uəs		OV.	-imə	V) 0328 8) 0728 Total Co										7	٤
	HALL ENVI	www.ballenvirg	5 '	10	Anal	<b>†</b> C				tals IO <sub>3</sub> ,	ة Me اد, ا	RCRA 8	×	X	X	X	×	X	X	X		Send report	ann at: OHRLCOMP. com
			4901 Hawkins NE	Tel 505-345-3975	010 000		bcB.²	(1	.40	səpi	etho	8081 P6 EDB (M										Remarks: Plence also ser	
			46	-		(C)	1508) s 0 / MRG	MB'	1 O	38 39,	TM NSIG JOST	K3TB	X	X	X	X	X	X	X	X		Remark Plens	Anc Cowl
}	ay lura	11.	H					McGallen	No /		0.05=0.3 (°C)	2004473	100-	200-	-003	100	1509	900-	-00 <del>-</del>	-00%			Date Time
	Oday Bush		lomb Haider   Fed IH	1000	8948	Jer:	Tom Bynum	- Annio A	₽-Yes		noluding CF): U.6	Preservative Type	lce	Ice	Ice	ادو	Ice	Ice	ادو	Ice		Via:	Via:
Turn-Around Time:	☑ Standard	Project Name:	lomb Mai	Project #:	89484802	Project Manager	Tom	Sampler HRI - Annio	On Ice:	olers:	Cooler Temp(including CF):	Container Type and #	- 30	ssel9zoh	402 Glass	402 Glass	402 Glass	402 Glass	402 Glass	42 Glass		Received by:	Received by:
Chain-of-Custody Record	nergy	, w	Mailing Address: 6488 Seven Rivers Highway	Mexico	8-1613	bynym @dyn, com		□ Az Compliance				x Sample Name	PSI	FS1-24	FS2	FS5	l FS9	11 PS 12	II PS III	11 FS15		Sh. roll	Relinquished by:
Chain-of-	Client: Devon Energy	Tom Bynum	ng Address: 64	Artesia, New Mexico	Phone #: 580-748-1613	email or Fax#: tom. bynym @	QA/QC Package: ⊡∕ Standard	نے ا		□ EDD (Type)		Time Matrix	4/6/20 9:39 50:1	4/6/20 13:33 Soil	4/6/20 9:41 Soil	20 9:49 Soil	4/6/20 10:11 Soil	4/6/20 10:39 Soil	4/6/20 14:33 Soil	4/6/20 14:36 Soil		Time: Relinqu	Time:
D -1	Sed to				直		OAVC	Accr				Date	19/1	19/1	19/17	4/6/20	4161;	19/4	19/17	19/1-		Date:	Date: 4/8/20

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109



July 07, 2020

Tom Bynum Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176

FAX:

RE: Tomb Raider 1 Fed 1 OrderNo.: 2006E54

#### Dear Tom Bynum:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/26/2020 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report Lab Order 2006E54

Date Reported: 7/7/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: Tomb- East

 Project:
 Tomb Raider 1 Fed 1
 Collection Date: 6/25/2020 1:07:00 PM

 Lab ID:
 2006E54-001
 Matrix: SOIL
 Received Date: 6/26/2020 4:48:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: CLP
Diesel Range Organics (DRO)	170	8.7	mg/Kg	1	7/1/2020 11:17:07 AM
Motor Oil Range Organics (MRO)	150	43	mg/Kg	1	7/1/2020 11:17:07 AM
Surr: DNOP	105	55.1-146	%Rec	1	7/1/2020 11:17:07 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	99	60	mg/Kg	20	7/1/2020 10:07:10 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst: <b>JMR</b>
Benzene	ND	0.024	mg/Kg	1	7/2/2020 3:01:00 AM
Toluene	ND	0.047	mg/Kg	1	7/2/2020 3:01:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	7/2/2020 3:01:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	7/2/2020 3:01:00 AM
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	7/2/2020 3:01:00 AM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	7/2/2020 3:01:00 AM
Surr: Dibromofluoromethane	108	70-130	%Rec	1	7/2/2020 3:01:00 AM
Surr: Toluene-d8	99.0	70-130	%Rec	1	7/2/2020 3:01:00 AM
EPA METHOD 8015D MOD: GASOLINE RANGE	į				Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/2/2020 3:01:00 AM
Surr: BFB	95.5	70-130	%Rec	1	7/2/2020 3:01:00 AM

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

Qualifiers:

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

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

Page 1 of 7

**Analytical Report**Lab Order **2006E54** 

Date Reported: 7/7/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: Tomb- West

 Project:
 Tomb Raider 1 Fed 1
 Collection Date: 6/25/2020 1:10:00 PM

 Lab ID:
 2006E54-002
 Matrix: SOIL
 Received Date: 6/26/2020 4:48:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/1/2020 11:41:07 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/1/2020 11:41:07 AM
Surr: DNOP	96.4	55.1-146	%Rec	1	7/1/2020 11:41:07 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	84	60	mg/Kg	20	7/1/2020 10:19:30 PM
<b>EPA METHOD 8260B: VOLATILES SHOR</b>	T LIST				Analyst: <b>JMR</b>
Benzene	ND	0.025	mg/Kg	1	7/2/2020 4:26:22 AM
Toluene	ND	0.050	mg/Kg	1	7/2/2020 4:26:22 AM
Ethylbenzene	ND	0.050	mg/Kg	1	7/2/2020 4:26:22 AM
Xylenes, Total	ND	0.099	mg/Kg	1	7/2/2020 4:26:22 AM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	7/2/2020 4:26:22 AM
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	7/2/2020 4:26:22 AM
Surr: Dibromofluoromethane	105	70-130	%Rec	1	7/2/2020 4:26:22 AM
Surr: Toluene-d8	105	70-130	%Rec	1	7/2/2020 4:26:22 AM
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/2/2020 4:26:22 AM
Surr: BFB	101	70-130	%Rec	1	7/2/2020 4:26:22 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

Page 2 of 7

### Hall Environmental Analysis Laboratory, Inc.

07-Jul-20

2006E54

WO#:

Client: Devon Energy
Project: Tomb Raider 1 Fed 1

Sample ID: MB-53456 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 53456 RunNo: 70052

Prep Date: 7/1/2020 Analysis Date: 7/1/2020 SeqNo: 2434259 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-53456 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 53456 RunNo: 70052

Prep Date: 7/1/2020 Analysis Date: 7/1/2020 SeqNo: 2434260 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.3 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

Page 3 of 7

### Hall Environmental Analysis Laboratory, Inc.

07-Jul-20

2006E54

WO#:

Client: Devon Energy
Project: Tomb Raider 1 Fed 1

Sample ID: MB-53402 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 53402 RunNo: 70044

Prep Date: 6/29/2020 Analysis Date: 7/1/2020 SeqNo: 2433514 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 8.8 10.00 88.4 55.1 146

Sample ID: MB-53438 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 53438 RunNo: 70044

Prep Date: 7/1/2020 Analysis Date: 7/1/2020 SeqNo: 2433516 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP 9.4 10.00 94.0 55.1 146

Sample ID: LCS-53402 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS Batch ID: 53402 RunNo: 70044

Prep Date: 6/29/2020 Analysis Date: 7/1/2020 SeqNo: 2433517 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Diesel Range Organics (DRO) 49 10 50.00 0 99.0 70 130

Surr: DNOP 4.5 5.000 89.4 55.1 146

Sample ID: LCS-53438 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 53438 RunNo: 70044

4.2

Prep Date: 7/1/2020 Analysis Date: 7/1/2020 SeqNo: 2433519 Units: %Rec

5.000

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

83.2

55.1

146

Qualifiers:

Surr: DNOP

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 7

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2006E54** 

07-Jul-20

Client: Devon Energy
Project: Tomb Raider 1 Fed 1

Sample ID: <b>mb-53394</b>	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Vola	iles Short	List	
Client ID: PBS			394	F	RunNo: <b>70075</b>					
Prep Date: 6/29/2020			7/1/2020		SeqNo: <b>2434446</b>		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	0.53		0.5000		106	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.3	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.49		0.5000		98.5	70	130			

Sample ID: Ics-53394	Samp1	Гуре: <b>LC</b>	S4	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batc	h ID: <b>53</b> :	394	F	RunNo: 7	0075	Units: mg/Kg  HighLimit %RPD RPDLimit Qual  120 120 120 120 120			
Prep Date: 6/29/2020	Analysis D	Date: <b>7/</b>	1/2020	9	SeqNo: 2	434447	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	0.94	0.050	1.000	0	94.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		106	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.7	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

SampType: MS4  Batch ID: 53394			TestCode: EPA Method 8260B: Volatiles Short List						
			F	RunNo: <b>70075</b>					
Analysis D	oate: <b>7/</b> 2	2/2020	8	SeqNo: 24	434467	Units: mg/K	ζg		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1.0	0.024	0.9718	0	106	71.1	115			
0.94	0.049	0.9718	0	96.6	79.6	132			
0.98	0.049	0.9718	0	101	83.8	134			
3.0	0.097	2.915	0	104	82.4	132			
0.52		0.4859		106	70	130			
0.49		0.4859		100	70	130			
0.54		0.4859		110	70	130			
0.50		0.4859		103	70	130			
	Result  1.0 0.94 0.98 3.0 0.52 0.49 0.54	Batch ID: 53: Analysis Date: 7/2  Result PQL  1.0 0.024  0.94 0.049  0.98 0.049  3.0 0.097  0.52  0.49  0.54	Batch ID: 53394  Analysis Date: 7/2/2020  Result PQL SPK value  1.0 0.024 0.9718  0.94 0.049 0.9718  0.98 0.049 0.9718  3.0 0.097 2.915  0.52 0.4859  0.49 0.4859  0.54 0.4859	Batch ID: 53394       FRADRICK FOR STAND	Batch ID: 53394       RunNo: 76         Analysis Date:       7/2/2020       SeqNo: 2         Result       PQL       SPK value       SPK Ref Val       %REC         1.0       0.024       0.9718       0       106         0.94       0.049       0.9718       0       96.6         0.98       0.049       0.9718       0       101         3.0       0.097       2.915       0       104         0.52       0.4859       106         0.49       0.4859       100         0.54       0.4859       110	Batch ID: 53394       RunNo: 70075         Analysis Date: 7/2/2020       SeqNo: 2434467         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit         1.0       0.024       0.9718       0       106       71.1         0.94       0.049       0.9718       0       96.6       79.6         0.98       0.049       0.9718       0       101       83.8         3.0       0.097       2.915       0       104       82.4         0.52       0.4859       106       70         0.49       0.4859       100       70         0.54       0.4859       110       70	Batch ID: 53394       RunNo: 70075         Analysis Date: 7/2/2020       SeqNo: 2434467       Units: mg/k         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit         1.0       0.024       0.9718       0       106       71.1       115         0.94       0.049       0.9718       0       96.6       79.6       132         0.98       0.049       0.9718       0       101       83.8       134         3.0       0.097       2.915       0       104       82.4       132         0.52       0.4859       106       70       130         0.49       0.4859       100       70       130         0.54       0.4859       110       70       130	Batch ID: 53394       RunNo: 70075         Analysis Date: 7/2/2020       SeqNo: 2434467       Units: mg/Ky         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD         1.0       0.024       0.9718       0       106       71.1       115         0.94       0.049       0.9718       0       96.6       79.6       132         0.98       0.049       0.9718       0       101       83.8       134         3.0       0.097       2.915       0       104       82.4       132         0.52       0.4859       106       70       130         0.49       0.4859       100       70       130         0.54       0.4859       110       70       130	Batch ID: 53394       RunNo: 70075         Analysis Date: 7/2/2020       SeqNo: 2434467       Units: mg/Kg         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit         1.0       0.024       0.9718       0       106       71.1       115       HighLimit       %RPD       RPDLimit         0.94       0.049       0.9718       0       96.6       79.6       132       HighLimit       MRPD       RPDLimit         0.98       0.049       0.9718       0       101       83.8       134       High Limit       High Limit       MRPDLimit         0.98       0.049       0.9718       0       101       83.8       134       High Limit       High Limit       MRPDLimit         0.97       0.9718       0       101       83.8       134       High Limit       High Limit       MRPDLIMIT         0.98       0.049       0.9718       0       104       82.4       132       High Limit </td

#### Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2006E54** *07-Jul-20* 

Client: Devon Energy
Project: Tomb Raider 1 Fed 1

Sample ID: 2006e54-001amsd SampType: MSD4				Tes	TestCode: EPA Method 8260B: Volatiles Short List					
Client ID: Tomb- East	Batc	h ID: <b>53</b> 3	394	F	RunNo: 70	0075				
Prep Date: 6/29/2020	Prep Date: 6/29/2020 Analysis Date: 7/2/2020				SeqNo: 2434468 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.023	0.9217	0	99.1	71.1	115	12.2	20	
Toluene	0.86	0.046	0.9217	0	93.6	79.6	132	8.39	20	
Ethylbenzene	0.89	0.046	0.9217	0	96.9	83.8	134	9.28	20	
Xylenes, Total	2.7	0.092	2.765	0	99.0	82.4	132	10.1	20	
Surr: 1,2-Dichloroethane-d4	0.49		0.4608		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.43		0.4608		93.7	70	130	0	0	
Surr: Dibromofluoromethane	0.49		0.4608		106	70	130	0	0	
Surr: Toluene-d8	0.47		0.4608		102	70	130	0	0	

#### Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2006E54** 

07-Jul-20

Client: Devon Energy
Project: Tomb Raider 1 Fed 1

Sample ID: mb-53394 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 53394 RunNo: 70075

Prep Date: 6/29/2020 Analysis Date: 7/1/2020 SeqNo: 2434472 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 500 500.0 99.1 70 130

Sample ID: Ics-53394 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 53394 RunNo: 70075

Prep Date: 6/29/2020 Analysis Date: 7/1/2020 SeqNo: 2434473 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 19 5.0 25.00 O 75.9 130

Surr: BFB 490 500.0 97.9 70 130

Sample ID: 2006e54-002ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: Tomb- West Batch ID: 53394 RunNo: 70075

Prep Date: 6/29/2020 Analysis Date: 7/2/2020 SeqNo: 2434494 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 17 4.9 24.46 0 68.8 70 130 S Surr: BFB 490 489.2 99.6 70 130

Sample ID: 2006e54-002amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: Tomb- West Batch ID: 53394 RunNo: 70075

Prep Date: 6/29/2020 Analysis Date: 7/2/2020 SeqNo: 2434495 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 17 23.39 72.2 70 3.10 47 130 20 Surr: BFB 470 467.7 101 70 130 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 7



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

Clie	nt Name:	Devon Ene	rgy	Work	Order Numbe	r: 2000	6E54		RcptNo: 1	
Rece	eived By:	Juan Roja	s	6/26/20	20 4:48:00 PM	1		Guaray	4-	
Com	pleted By:	Juan Roja			20 8:04:25 AM			Glanza In		
	iewed By:	LB		6/29				, 2		
Cha	in of Cus	<u>tody</u>								
1. Is	Chain of C	ustody compl	ete?			Yes	V	No 🗆	Not Present	
2. H	ow was the	sample deliv	ered?			Clier	nt			
Log	<u>ı In</u>									
3. W	las an atten	pt made to c	ool the samp	es?		Yes	<b>V</b>	No 🗌	NA 🗆	
4. W	ere all samp	oles received	at a tempera	ture of >0° C	to 6.0°C	Yes	V	No 🗌	NA 🗆	
5. Sa	ample(s) in	proper contai	ner(s)?			Yes	<b>V</b>	No 🗌		
6. Su	ıfficient sam	ple volume fo	or indicated te	est(s)?		Yes	<b>V</b>	No 🗆		
7. An	e samples (	except VOA	and ONG) pro	perly preserve	ed?	Yes	~	No 🗌		
8. W	as preserva	tive added to	bottles?			Yes		No 🗸	NA 🗆	
9. Re	eceived at le	ast 1 vial with	n headspace	<1/4" for AQ V	OA?	Yes		No 🗆	NA 🔽	
10. W	ere any san	nple containe	rs received b	roken?		Yes		No 🗸	# of preserved	
		ork match bot				Yes	<b>✓</b>	No 🗆	bottles checked for pH:	/
			in of custody)	of Custody?		Yes		No 🗌	(<2 or >12) Adjusted?	unless noted)
			ere requested	Section of the second		Yes		No 🗆	1	00
14. W	ere all holdir	ng times able ustomer for a	to be met?			Yes		No 🗆	Checked by: $\leq 0$	4 6.29.20
		ing (if app								
				vith this order?	,	Yes		No 🗌	NA 🔽	
	Person	Notified:	*		Date [					
	By Who	m:			Via:	eMa	ail 🗍	Phone Fax	In Person	
	Regardi	ng:						- 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12		
	Client Ir	nstructions:								
16. A	dditional re	marks:								
17. <u>c</u>	ooler Infor	mation								
	Cooler No	Temp °C	Condition	Seal Intact	Seal No S	Seal Da	ate	Signed By		
	1	5.7	Good	.1						

Report to: Tom Bynum



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

### **Analytical Report**

### Pima Environmental Services-Carlsbad

Project Name: Tomb Raider 1 Fed 1H

Work Order: E303055

Job Number: 01058-0007

Received: 3/16/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/20/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/20/23

Tom Bynum PO Box 247 Plains, TX 79355-0247

Project Name: Tomb Raider 1 Fed 1H

Workorder: E303055

Date Received: 3/16/2023 7:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/16/2023 7:00:00AM, under the Project Name: Tomb Raider 1 Fed 1H.

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

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

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

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

Respectfully,

Walter Hinchman

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### Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	Donoutoda
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/20/23 17:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E303055-01A	Soil	03/14/23	03/16/23	Glass Jar, 2 oz.
S1 - 3'	E303055-02A	Soil	03/14/23	03/16/23	Glass Jar, 2 oz.
S1 - 4'	E303055-03A	Soil	03/14/23	03/16/23	Glass Jar, 2 oz.
S2 - 1'	E303055-04A	Soil	03/14/23	03/16/23	Glass Jar, 2 oz.
S2 - 2'	E303055-05A	Soil	03/14/23	03/16/23	Glass Jar, 2 oz.
S2 - 4'	E303055-06A	Soil	03/14/23	03/16/23	Glass Jar, 2 oz.
S3 - 1'	E303055-07A	Soil	03/14/23	03/16/23	Glass Jar, 2 oz.
S3 - 2'	E303055-08A	Soil	03/14/23	03/16/23	Glass Jar, 2 oz.
S3 - 4'	E303055-09A	Soil	03/14/23	03/16/23	Glass Jar, 2 oz.
SW1	E303055-10A	Soil	03/14/23	03/16/23	Glass Jar, 2 oz.
SW2	E303055-11A	Soil	03/14/23	03/16/23	Glass Jar, 2 oz.
SW3	E303055-12A	Soil	03/14/23	03/16/23	Glass Jar, 2 oz.
SW4	E303055-13A	Soil	03/14/23	03/16/23	Glass Jar, 2 oz.

### Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

### S1 - 1' E303055-01

		E000000 01					
Analyta	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dil	ution	Prepared	Anaiyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2311044
Benzene	ND	0.0250		1	03/15/23	03/16/23	
Ethylbenzene	ND	0.0250		1	03/15/23	03/16/23	
Toluene	ND	0.0250		1	03/15/23	03/16/23	
o-Xylene	ND	0.0250		1	03/15/23	03/16/23	
p,m-Xylene	ND	0.0500		1	03/15/23	03/16/23	
Total Xylenes	ND	0.0250		1	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		95.7 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		100 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	mg/kg Analyst: RKS			Batch: 2311044	
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		95.7 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		100 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: JL		Batch: 2311045
Diesel Range Organics (C10-C28)	ND	25.0		1	03/16/23	03/16/23	_
Oil Range Organics (C28-C36)	ND	50.0		1	03/16/23	03/16/23	
Surrogate: n-Nonane		106 %	50-200		03/16/23	03/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2311058
Chloride	68.0	20.0		1	03/17/23	03/19/23	_



### **Sample Data**

Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

S1 - 3' E303055-02

		E303033-02					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dill	шиоп	rrepared	Anaryzeu	notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	g Analyst		Analyst: RKS		Batch: 2311044
Benzene	ND	0.0250		1	03/15/23	03/16/23	
Ethylbenzene	ND	0.0250		1	03/15/23	03/16/23	
Toluene	ND	0.0250		1	03/15/23	03/16/23	
o-Xylene	ND	0.0250		1	03/15/23	03/16/23	
p,m-Xylene	ND	0.0500		1	03/15/23	03/16/23	
Total Xylenes	ND	0.0250		1	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		97.4 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		99.4 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2311044	
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		97.4 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		99.4 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: Љ		Batch: 2311045
Diesel Range Organics (C10-C28)	ND	25.0		1	03/16/23	03/16/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/16/23	03/16/23	
Surrogate: n-Nonane		103 %	50-200		03/16/23	03/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2311058
Chloride	81.5	20.0		1	03/17/23	03/19/23	

Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

S1 - 4'

		E303055-03					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2311044
Benzene	ND	0.0250	1	1	03/15/23	03/16/23	
Ethylbenzene	ND	0.0250	1	1	03/15/23	03/16/23	
Toluene	ND	0.0250	1	1	03/15/23	03/16/23	
o-Xylene	ND	0.0250	1	1	03/15/23	03/16/23	
p,m-Xylene	ND	0.0500	1	1	03/15/23	03/16/23	
Total Xylenes	ND	0.0250	1	1	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		96.4 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		100 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2311044
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		96.4 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		100 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2311045
Diesel Range Organics (C10-C28)	ND	25.0	1	1	03/16/23	03/16/23	_
Oil Range Organics (C28-C36)	ND	50.0	1	1	03/16/23	03/16/23	
Surrogate: n-Nonane		103 %	50-200		03/16/23	03/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2311058

20.0

03/17/23

03/19/23

34.3

Chloride

Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

S2 - 1'

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2311044
Benzene	ND	0.0250		1	03/15/23	03/16/23	
Ethylbenzene	ND	0.0250		1	03/15/23	03/16/23	
Toluene	ND	0.0250		1	03/15/23	03/16/23	
o-Xylene	ND	0.0250		1	03/15/23	03/16/23	
p,m-Xylene	ND	0.0500		1	03/15/23	03/16/23	
Total Xylenes	ND	0.0250		1	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		96.2 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		99.2 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2311044
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		96.2 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		99.2 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: JL		Batch: 2311045
Diesel Range Organics (C10-C28)	ND	25.0	•	1	03/16/23	03/16/23	_
Oil Range Organics (C28-C36)	ND	50.0		1	03/16/23	03/16/23	
Surrogate: n-Nonane		104 %	50-200		03/16/23	03/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2311058
Chloride	ND	20.0		1	03/17/23	03/19/23	

Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

S2 - 2'

		Reporting					
Analyte	Result	Limit	Dilut	tion ]	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RK	S		Batch: 2311044
Benzene	ND	0.0250	1	(	03/15/23	03/16/23	
Ethylbenzene	ND	0.0250	1	(	03/15/23	03/16/23	
Toluene	ND	0.0250	1	(	03/15/23	03/16/23	
o-Xylene	ND	0.0250	1	(	03/15/23	03/16/23	
p,m-Xylene	ND	0.0500	1	(	03/15/23	03/16/23	
Total Xylenes	ND	0.0250	1	(	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		96.0 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		99.4 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	P	Analyst: RK	S		Batch: 2311044
Gasoline Range Organics (C6-C10)	ND	20.0	1	(	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		96.0 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	(	03/15/23	03/16/23	
Surrogate: Toluene-d8		99.4 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL			Batch: 2311045
Diesel Range Organics (C10-C28)	ND	25.0	1	(	03/16/23	03/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	(	03/16/23	03/16/23	
Surrogate: n-Nonane		106 %	50-200		03/16/23	03/16/23	
	mg/kg	mg/kg	A	Analyst: BA			Batch: 2311058
Anions by EPA 300.0/9056A	mg/kg	gg					

Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

S2 - 4'

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RK	S		Batch: 2311044
Benzene	ND	0.0250	1		03/15/23	03/16/23	
Ethylbenzene	ND	0.0250	1		03/15/23	03/16/23	
Toluene	ND	0.0250	1		03/15/23	03/16/23	
o-Xylene	ND	0.0250	1		03/15/23	03/16/23	
p,m-Xylene	ND	0.0500	1		03/15/23	03/16/23	
Total Xylenes	ND	0.0250	1		03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		96.3 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		100 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RK	S		Batch: 2311044
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		96.3 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		100 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL			Batch: 2311045
Diesel Range Organics (C10-C28)	ND	25.0	1		03/16/23	03/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1		03/16/23	03/17/23	
Surrogate: n-Nonane		103 %	50-200		03/16/23	03/17/23	
	mg/kg	mg/kg	A	Analyst: BA			Batch: 2311058
Anions by EPA 300.0/9056A	mg/Kg	mg ng					



Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

S3 - 1'

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: F	RKS		Batch: 2311044
Benzene	ND	0.0250	1		03/15/23	03/16/23	
Ethylbenzene	ND	0.0250	1		03/15/23	03/16/23	
Toluene	ND	0.0250	1		03/15/23	03/16/23	
o-Xylene	ND	0.0250	1		03/15/23	03/16/23	
p,m-Xylene	ND	0.0500	1		03/15/23	03/16/23	
Total Xylenes	ND	0.0250	1		03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		95.8 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		101 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: F	RKS		Batch: 2311044
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		95.8 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		101 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2311045
Diesel Range Organics (C10-C28)	ND	25.0	1		03/16/23	03/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1		03/16/23	03/17/23	
Surrogate: n-Nonane		105 %	50-200		03/16/23	03/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: E	BA		Batch: 2311058
11110113 by E111 500:0/703011							

Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

S3 - 2'

E30	305	5-08

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: R	RKS		Batch: 2311044
Benzene	ND	0.0250	1		03/15/23	03/16/23	
Ethylbenzene	ND	0.0250	1		03/15/23	03/16/23	
Toluene	ND	0.0250	1		03/15/23	03/16/23	
o-Xylene	ND	0.0250	1		03/15/23	03/16/23	
p,m-Xylene	ND	0.0500	1		03/15/23	03/16/23	
Total Xylenes	ND	0.0250	1		03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		96.9 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		101 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: R	RKS		Batch: 2311044
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		96.9 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		101 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: Л	L		Batch: 2311045
Diesel Range Organics (C10-C28)	ND	25.0	1		03/16/23	03/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1		03/16/23	03/17/23	
Surrogate: n-Nonane		108 %	50-200		03/16/23	03/17/23	
	mg/kg	mg/kg	1	Analyst: B	BA		Batch: 2311058
Anions by EPA 300.0/9056A	mg/ng	<u>6</u> 6					

Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

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		200000000					
	D 1:	Reporting		·	D 1		N
Analyte	Result	Limit	Dili	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2311044
Benzene	ND	0.0250		1	03/15/23	03/16/23	
Ethylbenzene	ND	0.0250		1	03/15/23	03/16/23	
Toluene	ND	0.0250		1	03/15/23	03/16/23	
o-Xylene	ND	0.0250		1	03/15/23	03/16/23	
p,m-Xylene	ND	0.0500		1	03/15/23	03/16/23	
Total Xylenes	ND	0.0250		1	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		96.5 %	70-130	·	03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		100 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2311044
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		96.5 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		100 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2311045
Diesel Range Organics (C10-C28)	ND	25.0		1	03/16/23	03/17/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/16/23	03/17/23	
Surrogate: n-Nonane		109 %	50-200		03/16/23	03/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2311058
Chloride	ND	20.0		1	03/17/23	03/19/23	

Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

### SW1

	055	

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2311044
Benzene	ND	0.0250		1	03/15/23	03/16/23	
Ethylbenzene	ND	0.0250		1	03/15/23	03/16/23	
Toluene	ND	0.0250		1	03/15/23	03/16/23	
o-Xylene	ND	0.0250		1	03/15/23	03/16/23	
p,m-Xylene	ND	0.0500		1	03/15/23	03/16/23	
Total Xylenes	ND	0.0250		1	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		94.8 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		99.6 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2311044
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/15/23	03/16/23	
Surrogate: Bromofluorobenzene		94.8 %	70-130		03/15/23	03/16/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		03/15/23	03/16/23	
Surrogate: Toluene-d8		99.6 %	70-130		03/15/23	03/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: JL		Batch: 2311045
Diesel Range Organics (C10-C28)	ND	25.0		1	03/16/23	03/17/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/16/23	03/17/23	
Surrogate: n-Nonane		100 %	50-200		03/16/23	03/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2311058
Chloride	ND	20.0		1	03/17/23	03/19/23	



Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

### SW2 E303055-11

		Reporting				
Analyte	Result	Limit	Dilut	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2311044
Benzene	ND	0.0250	1	03/15/23	03/17/23	
Ethylbenzene	ND	0.0250	1	03/15/23	03/17/23	
Toluene	ND	0.0250	1	03/15/23	03/17/23	
o-Xylene	ND	0.0250	1	03/15/23	03/17/23	
p,m-Xylene	ND	0.0500	1	03/15/23	03/17/23	
Total Xylenes	ND	0.0250	1	03/15/23	03/17/23	
Surrogate: Bromofluorobenzene		96.5 %	70-130	03/15/23	03/17/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	03/15/23	03/17/23	
Surrogate: Toluene-d8		101 %	70-130	03/15/23	03/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2311044
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/23	03/17/23	
Surrogate: Bromofluorobenzene		96.5 %	70-130	03/15/23	03/17/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	03/15/23	03/17/23	
Surrogate: Toluene-d8		101 %	70-130	03/15/23	03/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2311045
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/23	03/17/23	_
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/23	03/17/23	
Surrogate: n-Nonane		106 %	50-200	03/16/23	03/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2311058



Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

### SW3

		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2311044
Benzene	ND	0.0250		1	03/15/23	03/17/23	
Ethylbenzene	ND	0.0250		1	03/15/23	03/17/23	
Toluene	ND	0.0250		1	03/15/23	03/17/23	
o-Xylene	ND	0.0250		1	03/15/23	03/17/23	
p,m-Xylene	ND	0.0500		1	03/15/23	03/17/23	
Total Xylenes	ND	0.0250		1	03/15/23	03/17/23	
Surrogate: Bromofluorobenzene		96.9 %	70-130		03/15/23	03/17/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		03/15/23	03/17/23	
Surrogate: Toluene-d8		101 %	70-130		03/15/23	03/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2311044
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/15/23	03/17/23	
Surrogate: Bromofluorobenzene		96.9 %	70-130		03/15/23	03/17/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		03/15/23	03/17/23	
Surrogate: Toluene-d8		101 %	70-130		03/15/23	03/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: Л		Batch: 2311045
Diesel Range Organics (C10-C28)	ND	25.0		1	03/16/23	03/17/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/16/23	03/17/23	
Surrogate: n-Nonane		109 %	50-200		03/16/23	03/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2311058

Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

### SW4

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2311044
Benzene	ND	0.0250	1		03/15/23	03/17/23	
Ethylbenzene	ND	0.0250	1		03/15/23	03/17/23	
Toluene	ND	0.0250	1		03/15/23	03/17/23	
o-Xylene	ND	0.0250	1		03/15/23	03/17/23	
p,m-Xylene	ND	0.0500	1		03/15/23	03/17/23	
Total Xylenes	ND	0.0250	1		03/15/23	03/17/23	
Surrogate: Bromofluorobenzene		94.3 %	70-130		03/15/23	03/17/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		03/15/23	03/17/23	
Surrogate: Toluene-d8		99.7 %	70-130		03/15/23	03/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2311044
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/15/23	03/17/23	
Surrogate: Bromofluorobenzene		94.3 %	70-130		03/15/23	03/17/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		03/15/23	03/17/23	
Surrogate: Toluene-d8		99.7 %	70-130		03/15/23	03/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2311045
Diesel Range Organics (C10-C28)	ND	25.0	1		03/16/23	03/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1		03/16/23	03/17/23	
Surrogate: n-Nonane		109 %	50-200		03/16/23	03/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2311058
11110115 6 1 11111 0 0 0 0 0 7 5 0 0 0 1 1							



## **QC Summary Data**

Tomb Raider 1 Fed 1H Pima Environmental Services-Carlsbad Project Name: Reported: PO Box 247 Project Number: 01058-0007 Plains TX, 79355-0247 Project Manager: Tom Bynum 3/20/2023 5:07:51PM Volatile Organic Compounds by EPA 8260B Analyst: RKS Source Reporting Spike Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2311044-BLK1) Prepared: 03/15/23 Analyzed: 03/16/23 ND 0.0250 Ethylbenzene ND 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.482 0.500 96.4 70-130 Surrogate: 1,2-Dichloroethane-d4 0.519 0.500 104 70-130 0.500 101 70-130 Surrogate: Toluene-d8 0.505 LCS (2311044-BS1) Prepared: 03/15/23 Analyzed: 03/16/23 2.25 0.0250 2.50 90.1 70-130 Benzene 2.31 0.0250 2.50 92.5 70-130 Ethylbenzene 2.30 0.0250 2.50 91.8 70-130 2.41 2.50 96.3 70-130 o-Xylene 0.0250 95.7 4.78 5.00 70-130 p,m-Xylene 0.0500 7.19 0.0250 7.50 95.9 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.517 0.500 103 70-130 0.500 103 70-130 Surrogate: 1,2-Dichloroethane-d4 0.517 Surrogate: Toluene-d8 0.500 70-130 0.505 Matrix Spike (2311044-MS1) Source: E303055-08 Prepared: 03/15/23 Analyzed: 03/16/23 ND 48-131 2.23 0.0250 2.50 ND 45-135 Ethylbenzene 2.30 0.0250 2.50 92.0 ND 48-130 Toluene 2.27 0.0250 2.50 90.8 o-Xylene 2.41 0.0250 2.50 ND 96.3 43-135 ND 94.7 4.73 5.00 43-135 p,m-Xylene 0.0500 Total Xylenes 7.14 0.0250 7.50 ND 95.2 43-135 0.500 103 Surrogate: Bromofluorobenzene 0.515 70-130 Surrogate: 1,2-Dichloroethane-d4 0.524 0.500 105 70-130 0.500 101 70-130 0.504

Matrix Spike Dup (2311044-MSD1)				Source:	E303055-	08	Prepared: 03	3/15/23 Analyzed: 03/16/23
Benzene	2.30	0.0250	2.50	ND	91.8	48-131	3.01	23
Ethylbenzene	2.36	0.0250	2.50	ND	94.5	45-135	2.64	27
Toluene	2.34	0.0250	2.50	ND	93.8	48-130	3.18	24
o-Xylene	2.46	0.0250	2.50	ND	98.5	43-135	2.20	27
p,m-Xylene	4.86	0.0500	5.00	ND	97.2	43-135	2.64	27
Total Xylenes	7.32	0.0250	7.50	ND	97.6	43-135	2.49	27
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130		
Surrogate: 1,2-Dichloroethane-d4 0.5			0.500		105	70-130		
Surrogate: Toluene-d8	0.510		0.500		102	70-130		

Surrogate: Toluene-d8

## **QC Summary Data**

Tomb Raider 1 Fed 1H Pima Environmental Services-Carlsbad Project Name: Reported: PO Box 247 Project Number: 01058-0007 Plains TX, 79355-0247 Project Manager: Tom Bynum 3/20/2023 5:07:51PM

Nonhalogenate	ed Organic	s by EPA	8015D -	- GRO

Analyst: RKS

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

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2311044-BLK1)							Prepared: 03	3/15/23 Anal	yzed: 03/16/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.482		0.500		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			
LCS (2311044-BS2)							Prepared: 03	3/15/23 Anal	yzed: 03/16/23
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.2	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.525		0.500		105	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			
Matrix Spike (2311044-MS2)				Source:	E303055-	08	Prepared: 03	3/15/23 Anal	yzed: 03/16/23
Gasoline Range Organics (C6-C10)	46.8	20.0	50.0	ND	93.7	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
Matrix Spike Dup (2311044-MSD2)				Source:	E303055-	08	Prepared: 03	3/15/23 Anal	yzed: 03/16/23
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130	4.17	20	
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			



# **QC Summary Data**

Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	Reported:
PO Box 247	Project Number:	01058-0007	•
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/20/2023 5:07:51PM

Plains TX, 79355-0247		Project Manage	r: To	m Bynum					3/20/2023 5:07:51PM
	Nonhal		Analyst: JL						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2311045-BLK1)							Prepared: 0	3/16/23 Ar	nalyzed: 03/16/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	55.1		50.0		110	50-200			
LCS (2311045-BS1)							Prepared: 0	3/16/23 Ar	nalyzed: 03/16/23
Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
urrogate: n-Nonane	54.7		50.0		109	50-200			
Matrix Spike (2311045-MS1)				Source:	E303053-	05	Prepared: 0	3/16/23 Ar	alyzed: 03/16/23
Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132			
urrogate: n-Nonane	51.9		50.0		104	50-200			
Matrix Spike Dup (2311045-MSD1)				Source:	E303053-	05	Prepared: 0	3/16/23 Ar	nalyzed: 03/16/23
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132	1.03	20	
urrogate: n-Nonane	51.9		50.0		104	50-200			



Matrix Spike (2311058-MS1)

Matrix Spike Dup (2311058-MSD1)

Chloride

Chloride

316

312

Prepared: 03/17/23 Analyzed: 03/19/23

Prepared: 03/17/23 Analyzed: 03/19/23

20

## **QC Summary Data**

Pima Environmental Services-Carlsbad PO Box 247		Project Name: Tomb Raider 1 Fed 1H Project Number: 01058-0007							Reported:
Plains TX, 79355-0247		Project Manager:	Т	om Bynum					3/20/2023 5:07:51PM
		Anions	by EPA	300.0/9056 <i>A</i>	1				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2311058-BLK1)							Prepared: 0	3/17/23 A	nalyzed: 03/19/23
Chloride	ND	20.0							
LCS (2311058-BS1)							Prepared: 0	3/17/23 A	nalyzed: 03/19/23
Chloride	250	20.0	250		100	90-110			

250

250

20.0

20.0

Source: E303055-01

Source: E303055-01

99.0

97.8

80-120

80-120

0.994

68.0

68.0

#### QC Summary Report Comment:

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



# **Definitions and Notes**

Pima Environmental Services-Carlsbad	Project Name:	Tomb Raider 1 Fed 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/20/23 17:07

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



	Chain	of	Custod
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roject Information	Chain d	of Custody								T/	VT.	Page / of
lient: Pima Environmental Services	D Bill To				Lab l	Jse Or			1D		Standard	CWA   SD'
roject: Tomb Raidly / Fed /#	Attention: Pevon		Lab W	/0#		Job	Number	rm	ID	20 30	X	
roject Man ager: Tom Bynum	Address: City, State, Zip		E30	50	52	Anal	ysis and	Metho	d			RC
Address: 56 14 N. Lovington Hwy.  City, State, Zip Hobbs, NM, 88240	Phone:					1						Chaha
Phone: 580-748-1613	Email:		115	8015							NIA CC	State D UT AZ TX
mail: ton@pimaoil.com			by 80	ру 80	121	10	0.00		NN	×	X	701 12 11
Report due by:	Pima Project # 1 - 272	L-TEE	ORO	DRO	by 80	Is 60.	ide 3				/	Remarks
Time Date Matrix No. of Containers Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by	8TEX by 8021	Metals 6010	Chloride 300.0	-	BGDOC	верос		Kelliaks
8:00 SI-1'		1		_					X			
3:05 1 1 1 31-3'		2							$\parallel$			
8:10 \$1-4'		3							1			
8:15 S2-1		4							1			
8:20   \$2.2		5							1			
8:25   \$2-4'		6							1			
8:30 S3-1'		7		đ					$\perp$			
8:35 S3-2'		8										
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envirotech Inc.

Printed: 3/16/2023 9:02:55AM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	03/16/23	07:00		Work Order ID:	E303055
Phone:	(575) 631-6977	Date Logged In:	03/15/23	15:32		Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	03/22/23	17:00 (4 day TAT)			
Chain of	Chain of Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes	_			
5. Were a	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi					Comments	s/Resolution
Sample T	<u>urn Around Time (TAT)</u>						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes.	were custody/security seals intact?		NA				
-	e sample received on ice? If yes, the recorded temp is 4°C.	ie 6°+2°C	Yes				
12. ***********	Note: Thermal preservation is not required, if samples ar		103				
	minutes of sampling						
13. If no v	visible ice, record the temperature.  Actual sample	temperature: 4°0	<u>C</u>				
Sample C	<u>Container</u>						
14. Are a	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers	?	Yes				
19. Is the a	appropriate volume/weight or number of sample contai	ners collected?	Yes				
Field Lab	<u>oel</u>						
20. Were	field sample labels filled out with the minimum info	ormation:					
S	ample ID?		Yes				
	ate/Time Collected?		Yes	'			
	ollectors name?		No				
	reservation		N				
	the COC or field labels indicate the samples were p	reservea?	No				
	<pre>imple(s) correctly preserved? filteration required and/or requested for dissolved n</pre>	antolo?	NA				
	1	netals?	No				
	se Sample Matrix	_					
	the sample have more than one phase, i.e., multipha		No				
27. If yes,	, does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
28. Are sa	amples required to get sent to a subcontract laborato	ry?	No				
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab	: NA		
Client In	<u>istruction</u>						
	<del></del>						

Date

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



# Appendix F

**Liner Inspection Form** 



## **Liner Inspection Form**

Client	Devon					
Date of Inspection	5/21/2620					
Site Name Tomb Raider		Rederal				
Latitude	32.34 0151					
Longitude	-163.729725					
Observations		Yes	No	Comments		
Is the liner present?		X				
Is the liner torn?			Х			
Are there visible hole	es in the liner?		X			
Is the liner retaining a	any liquids?		X			
Does it appear the linthe leak?	×					
Type of Liner:	Poly	Earthen	Metal	Other (describe below):		
Other Concerns or O	bservations:					
Site was	elean and	Ĭn	good	condition		
Inspector Name	Tayler Fly	vell				
Inspector Signature	Tayler Fly Toyla Swell	i .				



## Appendix G

HRL Rejected Closure Report



P.O. Box 1708 • Artesia, NM 88211 www.hrlcomp.com

August 5, 2020

Mr. Tom Bynum
Devon Energy
6488 Seven Rivers Highway
Artesia, New Mexico 88211
Email: Tom.Bynum@dvn.com

Subject: Liner Inspection, Site Characterization, and Closure Report

Tomb Raider 1 Federal #1H

2RP-3534

**Eddy County, New Mexico** 

Dear Mr. Bynum:

HRL Compliance Solutions, Inc. (HRL) is pleased to submit this liner inspection, site characterization, and closure report for the Tomb Raider 1 Federal #1H (Site). The Site is at latitude 32.340151 and longitude - 103.729725 in Eddy County, New Mexico (Figure 1).

#### **Site Background**

On February 2, 2016, a release of 15 barrels of oil was observed at the Site. The release occurred when the oil dump from a three-phase separator closed causing the vessel to swamp out, resulting in a release from the vent tank. Ten barrels of oil were contained within the lined secondary containment; however, high winds blew five barrels of oil to the southeast onto the well pad surface. The pump was immediately shut down. Ten barrels of oil were recovered from within the lined secondary containment, and two barrels were recovered from the well pad.

Because the volume released was between five and 25 barrels, this is considered a minor release according to the New Mexico Oil Conservation Division (NMOCD). On February 2, 2020, Devon reported the release to the NMOCD on a Release Notification and Corrective Action Form (Form C-141) (Attachment A). The release was assigned Remediation Permit (RP) number 2RP-3534.

### Scope of Work

Devon has requested HRL to provide the following deliverables:

- Perform a liner inspection
- Research the information as specified in the Site Characterization on the New Mexico Oil and Conservation Division (NMOCD) Form C-141
- Prepare a map with sample points labeled
- Prepare a table summarizing the results obtained during the site characterization activities

INNOVATIVE SOLUTIONS DELIVERED



- Prepare a site characterization report including a remediation plan per NMOCD closure requirements and related cost estimates
- Complete remediation activities and collect confirmatory soil samples in accordance with 19.15.29.12 NMAC
- Preparation of this closure request

#### **Liner Inspection**

On May 21, 2020, HRL conducted an inspection to evaluate the integrity of the liner (Attachment B, Photographs). No tears or holes were observed in the liner. Based on this inspection, HRL has determined that the liner remains intact and had the ability to contain the release (Attachment C, Liner Inspection Form).

#### New Mexico Administrative Code (NMAC) Site Characterization Criteria

Title 19, Chapter 15, Part 29, Section 11 of the New Mexico Administrative Code (NMAC) provides requirements for release characterization once the free liquids and recoverable materials have been removed from the Site.

#### Depth to Groundwater

Depth to groundwater at the release was estimated by evaluating data from the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) (Figure 2). The nearest groundwater well was approximately 2.27 miles from the Site; the depth to water in this well was 493 feet below ground surface (bgs).

#### Wellhead Protection Area

There are no sources of water, including springs, wells, or other sources of fresh water, within one-half mile of the release (Figure 2).

### Distance to Nearest Significant Watercourse

A significant watercourse is defined as "...a watercourse with a defined bed and bank either named or identified by a dashed blue line on a USGS 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank" (19.15.17.7 NMAC) (Figure 2). There are no significant watercourses within one-half mile of the lateral extent of the release.

#### Additional Site Characterization Criteria

The following is additional information related to characterization of the Site.

Site Characterization	Response/Discussion
What is the shallowest depth to groundwater beneath the area affected by the release?	Greater than 100 feet

Tomb Raider 1 Federal #1H August 5, 2020



Site Characterization	Response/Discussion
Did the release impact groundwater or surface water?	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or other significant watercourse?	No
Are the lateral extents of the release within 200 feet of a lakebed, sinkhole, or playa lake?	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital institution, or church?	No
Are the lateral extents of the release within 500 feet of a spring or private, domestic fresh water well used by less than five households for domestic or stock watering purposes?	No
Are the lateral extents of the release within 1,000 feet of any fresh water well or spring?	No
Are the lateral extents of the release within any incorporated municipal boundaries?	No
Are the lateral extents of the release within a defined municipal fresh water well field?	No
Are the lateral extents of the release within 300 feet of a wetland?	No
Are the lateral extents of the release overlying a subsurface mine?	No
Are the lateral extents of the release overlying an unstable area such as karst geology?	The Site is in an area of low potential for karst topography
Are the lateral extents of the release within the 100-year floodplain?	No
Did the release impact areas not on an exploration, development, production, or storage site?	No

#### **Site Characterization**

Prior to initiating field activities, HRL submitted a mechanical excavation permit to Devon Energy and had subsurface utilities located at the Site. On April 6, 2020, HRL mobilized to the Site to evaluate the release. Soil samples were collected from 15 locations (FS 1 through FS 15). Samples FS 2 through FS 15 were collected from depths ranging from one inch to six inches deep. To fully delineate the vertical extent of impacts, the samples at FS 1 were collected from depths of two inches, six inches, ten inches, 13 inches, 24 inches, and 48 inches (Figure 3). During sampling FS 1, petroleum hydrocarbon odors were noted at depths between three inches and 24 inches. Samples FS 1, FS 2, FS 3, and FS 14 were collected from and beneath wind-blown sand that had accumulated on the north side of the metal secondary containment structure.



Soil samples were collected for analysis in the field (field screening) by one or more of the following methods:

- Chloride was approximated using an electrical conductivity (EC) meter in accordance with methods recommended by the U.S. Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS)
- Non-specific volatile organic compounds (VOCs) were measured using a photoionization detector (PID) with a 10.6 electron-volt (eV) lamp
- Total petroleum hydrocarbons (TPH) was measured using a PetroFlag® field test kit in accordance with U.S. Environmental Protection Agency (EPA) Method 9074

In addition to the field screening, eight of the soil samples (FS 1, FS1-5, FS 2, FS 5, FS 9, FS 12, FS 14, and FS 15) were placed in laboratory-supplied jars and kept on ice under strict chain of custody protocol. These samples were submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis of (Attachment D):

- Chloride by United States Environmental Protection Agency (US EPA) Method 300.0
- Benzene, toluene, ethyl benzene, and total xylenes (BTEX) by US EPA Method 8021B
- Total petroleum hydrocarbons (TPH) gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) by US EPA Method 8015M

#### **Closure Criteria**

Based on the NMAC Site Characterization Criteria, HRL recommends the following NMOCD Closure Criteria to the Site:

Depth to Groundwater	Parameter	Closure Criteria in milligrams per kilogram (mg/kg)		
	Chloride	20,000 mg/kg or natural background, whichever is greater		
Greater than 100 feet below	Total Petroleum Hydrocarbons (TPH) [Gasoline Range Organics (GRO) + Diesel Range Organics (DRO) + Oil Range Organics (ORO)]	2,500 mg/kg		
ground surface	Gasoline Range Organics (GRO) + Diesel Range Organics (DRO)	1,000 mg/kg		
	Benzene	10 mg/kg		
	Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX)	50 mg/kg		

#### **Remediation Plan**

TPH in addition to GRO plus DRO concentrations at a depth of less than 24 inches in FS 1 exceeded the NMOCD closure criteria specified in 19.15.29.12 NMAC in FS 1 at a depth of two inches, but not at a depth of 24 inches. This sample was collected from stained wind-blown sand that had accumulated on the north

Tomb Raider 1 Federal #1H August 5, 2020



side of the metal secondary containment structure. HRL recommended remediation of the impacted soil by excavation and off-site disposal at an NMOCD approved facility. HRL recommended that excavation oversight and subsequent collection of confirmatory soil samples in accordance with 19.15.29 NMAC be conducted by a qualified environmental consulting firm.

A scaled diagram depicting the area of investigation and nearby significant features, such as roads, site infrastructure, location of borings, sample points, monitoring wells (if present) and subsurface features (if data was available) has been prepared (Figure 4). HRL utilized a Trimble GeoXT global positioning system (GPS) unit to collect latitude and longitude data for the sample locations.

#### **Remediation Activities**

Devon retained Wild West Services to conduct the excavation of impacted soil and HRL was retained by Devon to oversee the excavation activities and collect confirmation soil samples. Excavation activities were conducted on June 25, 2020. Excavation was completed by hand digging the impacted wind-blown sand and approximately one to two inches of the well pad. The area excavated was 72 feet by 3 feet. Excavated soil was transported off-site for disposal at the R360 halfway facility. HRL collected soil samples for analysis in the field (field screening) using field instrumentation. Field screening activities were conducted for non-specific volatile organic compounds (VOCs) using a photoionization detector (PID) with a 10.6 electron-volt (eV) lamp.

#### **Confirmatory Soil Samples**

Confirmation soil samples were collected in accordance with 19.15.29.12 NMAC, in which one five-point composite soil sample was representative of an area no more than 200-square feet. Two composite soil samples (Tomb-East and Tomb-West) were collected from the final excavation footprint (Figure 4). The samples were submitted to Hall Environmental Analysis Laboratory Inc., Albuquerque, New Mexico for analysis of:

- Chloride by US EPA Method 300.0
- BTEX by US EPA Method 8021B
- TPH GRO, DRO, and ORO by US EPA Method 8015M

Laboratory results indicate the TPH and GRO + DRO concentrations in soil in the footprint of the excavation were below applicable closure criteria (Table 2, Attachment E).

#### **Conclusions and Recommendations**

Site characterization activities indicated that petroleum impacted soil exceeding NMAC closure criteria was present in the wind-blown sand on the north side of the metal secondary containment structure. The impacted soil was removed and disposed of off-Site. Subsequent confirmation soil samples indicated that remaining soil was below the applicable closure criteria; therefore, HRL recommends closure of this release.



#### **Scope and Limitations**

The scope of HRL's services consists of performing a liner inspection, site characterization, remediation, and preparation of this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin.

We appreciate the opportunity to work with Devon on this project. If you have any questions or concerns, please do not hesitate to contact me at (970) 243-3271 or via email at jlinn@hrlcomp.com.

Sincerely,

HRL Compliance Solutions, Inc.

Julie Linn, PG, RG **Project Manager** 

julie C

Figures:

Figure 1: Site Location

Figure 2: Depth to Groundwater

Figure 3: Site Characterization Sample Locations and Results

Figure 4: Confirmation Sample Locations and Results

**Tables:** 

Table 1: Site Characterization Analytical Results Summary

Table 2: Confirmation Analytical Results Summary

Attachments:

Attachment A: NMOCD Form C-141

Attachment B: Photographs

Attachment C: Liner Inspection Form

Attachment D: Site Characterization Laboratory Analytical Report Attachment E: Confirmation Samples Laboratory Analytical Report

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

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 200575

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	200575
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Creat	ted By		Condition Date
ama	axwell	None	3/30/2023