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Remediation and Closure Report

Tomb Raider 1-12 Fed 718H
API # 30-015-44811, 2RP-5441
Eddy County, New Mexico

Prepared For:

Devon Energy Production Company
6488 Seven Rivers Hwy
Artesia, NM 88210

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

March 19, 2020

Mr. Jim Amos
BLM Carlsbad Field Office
620 East Greene Street
Carlsbad, NM 88220

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Remediation and Closure Report**
Tomb Raider 1-12 Fed 718H
API # 30-015-44811, 2RP-5441
Eddy County, New Mexico

Dear Mr. Amos & Mr. Bratcher,

Devon Energy Production Company (Devon Energy) contracted Talon/LPE (Talon) to perform soil assessment and closure report services at the above-referenced location. The soil sampling results and closure requests are presented herein.

Site Information

The Tomb Raider 1-12 Fed 718H is located approximately thirty (30) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter A, Section 1, Township 23 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.342719 North and -103.732299 West. A Site Map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Winky loamy fine sands with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian sands and piedmont alluvial deposits. Drainage courses in this area are well drained.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 428-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater depth. This site is located within a low potential Karst area.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

Approximate Depth to Groundwater**428 Feet/BGS**

- ☐ Yes ☒ No Within 300 feet of any continuously flowing watercourse or any other significant watercourse
- ☐ Yes ☒ No Within 200 feet of any lakebed, sinkhole or a playa lake
- ☐ Yes ☒ No Within 300 feet from an occupied permanent residence, school, hospital, institution or church
- ☐ Yes ☒ No Within 500 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 Within 1000 feet of any freshwater well or spring
- ☐ Yes ☒ No Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
- ☐ Yes ☒ No Within 300 feet of a wetland
- ☐ Yes ☒ No Within the area overlying a subsurface mine
- ☐ Yes ☒ No Within an unstable area
- ☐ Yes ☒ No Within a 100-year floodplain

| Table I Closure Criteria for Soils Impacted by a Release | | | |
|---|-------------------|----------------------------------|--------------|
| Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS | Constituent | Method | Limit |
| >100 feet | Total Chlorides | EPA 300.0 or SM4500 Cl B | 20,000 mg/kg |
| | TPH (GRO+DRO+MRO) | EPA SW-846 Method 8015M | 2,500 mg/kg |
| | GRO+DRO | EPA SW-846 Method 8015M | 1,000 mg/kg |
| | BTEX | EPA SW-846 Method 8021B or 8260B | 50 mg/kg |
| | Benzene | EPA SW-846 Method 8021B or 8260B | 10 mg/kg |

Incident Descriptions

On October 26, 2018, while transferring water for the completion of the Tomb Raider 1-12 Fed 718H well, a contractor inadvertently left one of their valves closed. When the transfer began, the 12" lay flat hose pressure increased and ruptured, releasing approximately 44.6 bbls of water that were a mixture of 50% fresh and 50% produced water. No fluids were recovered. Site maps are presented in [Appendix I](#).

An initial assessment and soil sampling was initially performed by Lowry Environmental company that subsequently submitted a work plan that was approved by the NMOCD. All recorded in the well files on the OCD website.

Others completed the work and Devon Energy subsequently retained Talon LPE for the construction of this closure report.

On February 19, 2020, Talon mobilized personnel to the site to take confirmation samples and to take photos of the area to ensure that the work had been performed. The results of the sampling event are presented in the following data table. The sample locations are shown on the site map.

Soil Sampling

See [Appendix V](#) for the complete report of laboratory results.

2-19-20 Soil Sample Laboratory Results

| Sample ID | Sample Date | Depth (BGS) | BTEX mg/kg | Benzene mg/kg | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg | CI mg/kg |
|---|-------------|-------------|------------|---------------|------------------------------------|-----------|-----------|-----------------|--------------|
| NMOCD Table 1 Closure Criteria 19.15.29 NMAC | | | 50 mg/kg | 10 mg/kg | DRO + GRO combined = 1000 mg/kg | | | 2500 mg/kg | 20,000 mg/kg |
| SP-1 | 2/19/2020 | 0 | ND | ND | ND | ND | ND | ND | 32 |
| | | 1 | ND | ND | ND | ND | ND | ND | 16 |
| | | 2 | ND | ND | ND | ND | ND | ND | ND |
| SP-2 | 2/19/2020 | 0 | ND | ND | ND | ND | ND | ND | 32 |
| | | 1 | ND | ND | ND | ND | ND | ND | 32 |
| | | 2 | ND | ND | ND | ND | ND | ND | 128 |
| SP-3 | 2/19/2020 | 0 | ND | ND | ND | ND | ND | ND | 32 |
| | | 1 | ND | ND | ND | ND | ND | ND | ND |
| | | 2 | ND | ND | ND | ND | ND | ND | 16 |
| SP-4 | 2/19/2020 | 0 | ND | ND | ND | ND | ND | ND | 32 |
| | | 1 | ND | ND | ND | ND | ND | ND | 48 |
| | | 2 | ND | ND | ND | ND | ND | ND | 112 |
| SP-5 | 2/19/2020 | 0 | ND | ND | ND | ND | ND | ND | 96 |
| | | 1 | ND | ND | ND | ND | ND | ND | 48 |
| | | 2 | ND | ND | ND | ND | ND | ND | 112 |
| SP-6 | 2/19/2020 | 0 | ND | ND | ND | ND | ND | ND | 80 |
| | | 1 | ND | ND | ND | ND | ND | ND | 32 |
| | | 2 | ND | ND | ND | ND | ND | ND | 128 |

ND-Analyte Not Detected

As shown on the above table, none of the analytical results exceed the cleanup criteria for this incident.



APPENDIX I

SITE MAP

KARST MAP

TOPO MAP

LOCATOR MAP

Tomb Raider 1-12 Fed 718H

Devon Energy Production Company
API 30-015-44811
Eddy County, NM
Site Map

- Legend**
- Samples
 - Tomb Raider 1-12 Fed 718H (Lay Flat Line Spill Area)

Tomb Raider 1-12 Fed 718H (Lay Flat Line Spill Area)

SP-1

SP-2

SP-4

SP-3

SP-5

SP-6

Tomb Raider 1 12 Fed 718H
Devon Energy Production Company
Eddy County, NM
Karst Map

Tomb Raider 1-12 Fed 718H

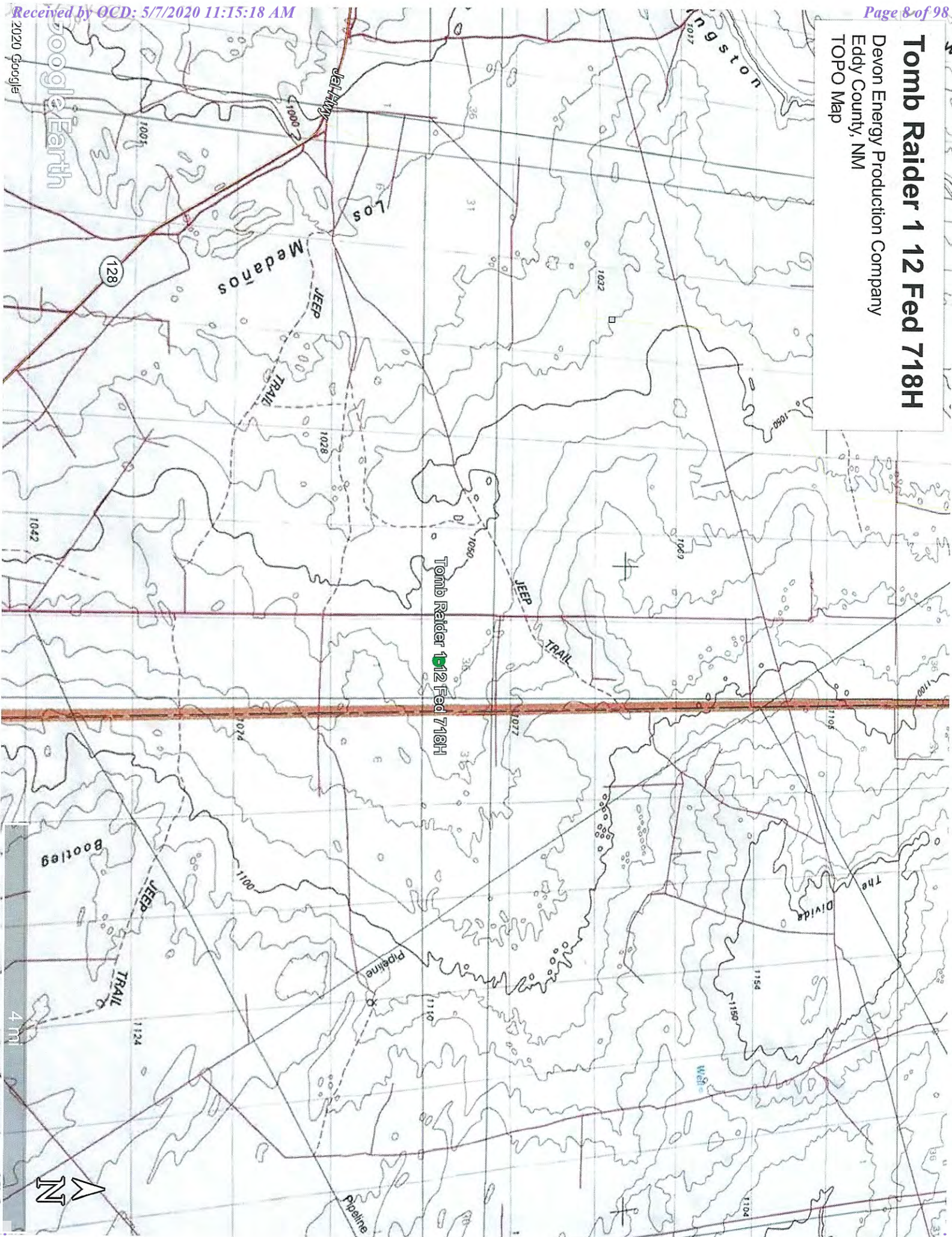
Google Earth

2020 Google

4 mi



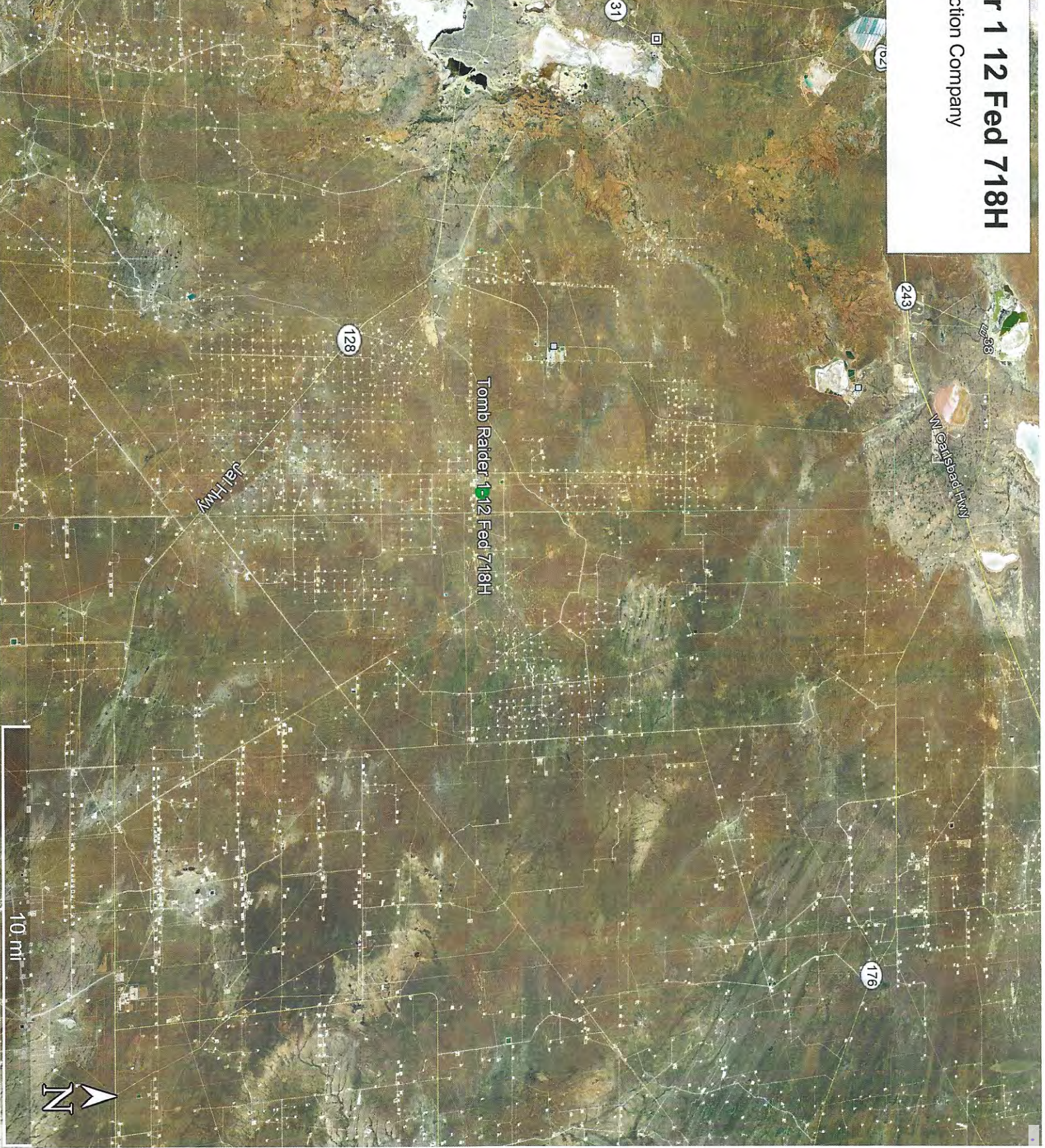
Tomb Raider 1 12 Fed 718H
Devon Energy Production Company
Eddy County, NM
TOPO Map



Tomb Raider 1 12 Fed 718H
Devon Energy Production Company
Eddy County, NM
Locator Map

Received by OCD: 5/7/2020 11:15:18 AM

Google Earth
2020 Google
Image Landsat, Copernicus





APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
O=orphaned,

C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

| POD Number | Code | POD Sub-basin | County | Q 6 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | DepthWell | DepthWater | Water Column |
|------------------------------|------|---------------|--------|-----|------|-----|-----|-----|-----|--------|----------|----------|-----------|------------|--------------|
| C 02756 | | CUB | ED | 3 | 4 | 4 | 26 | 22S | 31E | 618250 | 3580606* | 1810 | 1998 | | |
| C 03152 | | CUB | ED | 3 | 4 | 4 | 26 | 22S | 31E | 618250 | 3580606* | 1810 | 938 | | |
| C 03138 | | CUB | ED | 3 | 3 | 3 | 26 | 22S | 31E | 617043 | 3580591* | 2687 | 750 | | |
| C 02773 | | CUB | ED | 4 | 1 | 3 | 03 | 23S | 31E | 615668 | 3577762* | 3879 | 880 | | |
| C 02939 | | C | LE | 3 | 3 | 1 | 19 | 22S | 32E | 620234 | 3583042* | 4022 | 280 | | |
| C 02769 POD2 | | CUB | ED | 4 | 2 | 4 | 33 | 22S | 31E | 615261 | 3579312 | 4042 | 753 | 428 | 325 |
| C 02687 | | CUB | ED | 4 | 2 | 4 | 33 | 22S | 31E | 615246 | 3579364* | 4059 | 779 | | |
| C 02769 | | CUB | ED | 2 | 2 | 4 | 33 | 22S | 31E | 615246 | 3579564* | 4075 | 765 | | |
| C 02777 | | CUB | ED | 4 | 4 | 4 | 10 | 23S | 31E | 616974 | 3575662 | 4175 | 890 | | |
| C 03749 POD1 | | CUB | ED | | 2 | 2 | 15 | 23S | 31E | 616974 | 3575662 | 4175 | 865 | 639 | 226 |
| C 03140 | | CUB | ED | 4 | 2 | 4 | 04 | 23S | 31E | 615266 | 3577758* | 4259 | 684 | | |
| C 02757 | | CUB | ED | 4 | 4 | 4 | 28 | 22S | 31E | 615232 | 3580571* | 4314 | 4057 | | |
| C 02767 | | CUB | ED | 4 | 1 | 4 | 33 | 22S | 31E | 614844 | 3579360* | 4460 | 785 | | |
| C 02768 | | CUB | ED | 4 | 1 | 4 | 33 | 22S | 31E | 614844 | 3579360* | 4460 | 787 | | |
| C 03351 | | C | ED | 4 | 1 | 4 | 04 | 23S | 31E | 614917 | 3577861 | 4562 | 320 | 168 | 152 |
| C 02416 | | CUB | ED | 3 | 2 | 4 | 28 | 22S | 31E | 615027 | 3580973* | 4652 | 800 | 401 | 399 |
| C 03150 | | CUB | ED | 2 | 4 | 4 | 14 | 22S | 31E | 618412 | 3584025* | 4974 | 981 | | |
| C 02685 | | CUB | ED | 2 | 2 | 2 | 28 | 22S | 31E | 615218 | 3581978* | 4976 | 900 | | |

Average Depth to Water: 409 feet

Minimum Depth: 168 feet

Maximum Depth: 639 feet

Record Count: 18

UTM NAD83 Radius Search (in meters):

Easting (X): 619298.671

Northing (Y): 3579130

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.

3/2/20 12:28 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Wink loamy fine sand, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Eddy Area, New Mexico

WK—Wink loamy fine sand, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w6c
Elevation: 2,700 to 5,000 feet
Mean annual precipitation: 5 to 14 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 250 days
Farmland classification: Not prime farmland

Map Unit Composition

Wink and similar soils: 98 percent
Minor components: 2 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wink

Setting

Landform: Depressions, swales
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 8 inches: loamy fine sand
H2 - 8 to 38 inches: fine sandy loam
H3 - 38 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 30 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Low (about 5.7 inches)

Interpretive groups

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

Map Unit Description: Wink loamy fine sand, 0 to 3 percent slopes, eroded--Eddy Area, New Mexico

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 1 percent

Ecological site: Shallow Sandy (R042XC002NM)

Hydric soil rating: No

Wink

Percent of map unit: 1 percent

Ecological site: Sandy (R042XC004NM)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 15, Sep 15, 2019



Legend

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

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

| |
|--|
| 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with draining areas of less than one square mile Zone X |
| Future Conditions 1% Annual Chance Flood Hazard Zone X |
| Area with Reduced Flood Risk due to Levee. See Notes, Zone X |
| Area with Flood Risk due to Levee Zone D |

| OTHER AREAS OF FLOOD HAZARD | NO SCREEN Effective LOMRs Area of Minimal Flood Hazard Zone X |
|-----------------------------|---|
| GENERAL STRUCTURES | Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall |

| | |
|--|---|
| 20.2 17.5 15.0 12.5 10.0 7.5 5.0 2.5 0.0 | Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature |
|--|---|

| OTHER FEATURES | Digital Data Available No Digital Data Available Unmapped |
|----------------|---|
|----------------|---|

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/4/2020 at 5:14:42 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





APPENDIX III

INITIAL C-141

&

FINAL C-141

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

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

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

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | |
|--|----------------------------------|
| Responsible Party : Devon Energy Production Co LP | OGRID : 06137 |
| Contact Name : Amanda Davis | Contact Telephone : 575.748.1867 |
| Contact email : amanda.davis@dvn.com | Incident # (assigned by OCD) |
| Contact mailing address : 6488 Seven Rivers Highway, Artesia, NM 88210 | |

Location of Release Source

Latitude 32.342719 Longitude -103.732299
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|---------------------------------------|-------------------------------------|
| Site Name : Tomb Raider 1-12 Fed 718H | Site Type : Oil Well |
| Date Release Discovered : 10/26/2018 | API# (if applicable) : 30-015-44811 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| A | 1 | 23S | 31E | EDDY |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|--|--|---|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 44.6 | Volume Recovered (bbls) 0 |
| | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

While transferring water for the completion of the Tomb Raider 1-12 Fed 718H(API 30-015-44811) well, a contractor inadvertently left one of their valves closed. When the transfer began, the 12" lay flat hose pressure increased and ruptured, releasing approximately 44.6 bbls of water that was a mixture of 50% fresh and 50% produced water. No fluids were recovered. All fluid was released was in the pasture.

Form C-141

Page 2

State of New Mexico
Oil Conservation Division

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? Release is over 25 barrels |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Brett Fulks at Devon emailed Shelly Tucker, Maria Pruett, Mike Bratcher, and Jim Griswold at 4:08 PM on 10/27/2018. | |

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

| | |
|--|----------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: | |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| Printed Name: <u>Amanda Davis</u> | Title: <u>EHS Representative</u> |
| Signature: <u>AT Davis</u> | Date: <u>5/21/2019</u> |
| email: <u>Amanda.Davis@DVN.com</u> | Telephone: <u>575-748-0176</u> |
| <u>OCD Only</u> | |
| Received by: _____ | Date: _____ |

Form C-141

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State of New Mexico
Oil Conservation Division

| | |
|----------------|--|
| Incident ID | |
| 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 discover date.*

| | |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release? | 50-100 (ft. bgs) |
| Did this release impact groundwater or surface water? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production or storage site? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Form C-141

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State of New Mexico
Oil Conservation Division

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

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

Printed Name: Amanda T. DavisTitle: EHS RepresentativeSignature: AT DavisDate: 5/21/2019email: Amanda.Davis@DVN.comTelephone: 575-748-0176**OCD Only**

Received by: _____

Date: _____

Form C-141

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State of New Mexico
Oil Conservation Division

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

Remediation Plan**Remediation Plan Checklist:** *Each of the following items must be included in the report.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Amanda T. DavisTitle: EHS RepresentativeSignature: AT DavisDate: 5/21/2019email: Amanda.Davis@DVN.comTelephone: 575-748-0176**OCD Only**

Received by: _____

Date: _____

- ☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____

Date: _____

State of New Mexico
Oil Conservation Division

| | |
|----------------|--|
| Incident ID | |
| 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.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Chris Jones Title: Environmental Project Manager
Signature: [Signature] Date: 3-19-20
email: Cjones@talonlpc.com Telephone: 575-631-6977

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

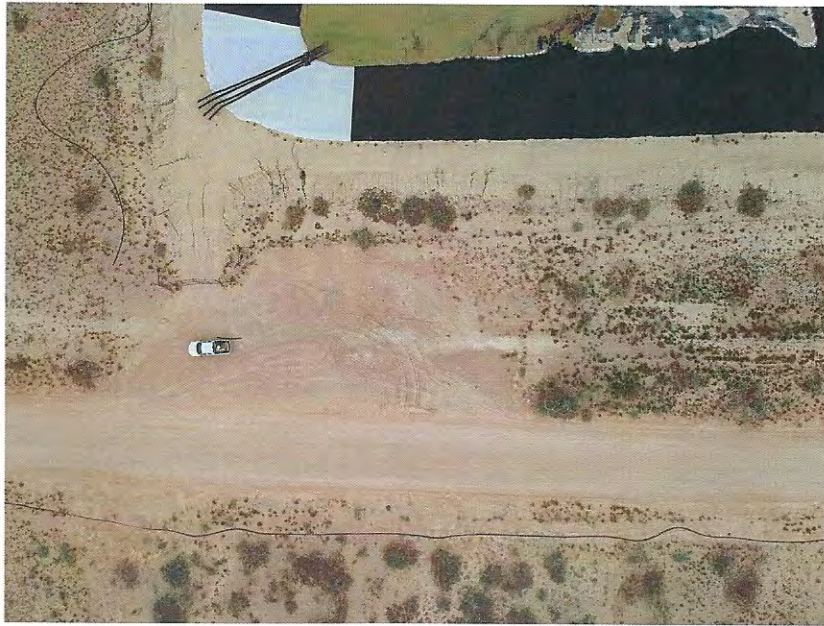


APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

2-19-20 Site Photos







APPENDIX V

LABORATORY DATA



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

February 27, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TOMB RAIDER 1-12 FED 718H

Enclosed are the results of analyses for samples received by the laboratory on 02/20/20 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 02/20/2020 | Sampling Date: | 02/19/2020 |
| Reported: | 02/27/2020 | Sampling Type: | Soil |
| Project Name: | TOMB RAIDER 1-12 FED 718H | Sampling Condition: | Cool & Intact |
| Project Number: | 700794.320.01 | Sample Received By: | Jodi Henson |
| Project Location: | DEVON - LEA COUNTY | | |

Sample ID: SP - 1 0' (H000541-01)

| BTEX 8021B | | mg/kg | | Analyzed By: CK | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 195 | 97.6 | 200 | 1.88 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 214 | 107 | 200 | 3.72 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.6 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1-12 FED 718H
Project Number: 700794.320.01
Project Location: DEVON - LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP - 1 1' (H000541-02)

| BTEX 8021B | | mg/kg | | Analyzed By: CK | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 195 | 97.6 | 200 | 1.88 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 214 | 107 | 200 | 3.72 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.7 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1-12 FED 718H
Project Number: 700794.320.01
Project Location: DEVON - LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP - 1 2' (H000541-03)

| BTX 8021B | | mg/kg | | Analyzed By: CK | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 99.2 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 195 | 97.6 | 200 | 1.88 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 214 | 107 | 200 | 3.72 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 96.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.5 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 02/20/2020 | Sampling Date: | 02/19/2020 |
| Reported: | 02/27/2020 | Sampling Type: | Soil |
| Project Name: | TOMB RAIDER 1-12 FED 718H | Sampling Condition: | Cool & Intact |
| Project Number: | 700794.320.01 | Sample Received By: | Jodi Henson |
| Project Location: | DEVON - LEA COUNTY | | |

Sample ID: SP - 2 0' (H000541-04)**BTEX 8021B****mg/kg****Analyzed By: CK**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 99.1 % 73.3-129

Chloride, SM4500Cl-B**mg/kg****Analyzed By: AC**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|-----------------|-------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 32.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

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

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 197 | 98.4 | 200 | 1.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 183 | 91.7 | 200 | 5.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 96.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.2 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1-12 FED 718H
Project Number: 700794.320.01
Project Location: DEVON - LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP - 2 1' (H000541-05)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 98.3 % 73.3-129

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 32.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 197 | 98.4 | 200 | 1.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 183 | 91.7 | 200 | 5.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.6 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 02/20/2020 | Sampling Date: | 02/19/2020 |
| Reported: | 02/27/2020 | Sampling Type: | Soil |
| Project Name: | TOMB RAIDER 1-12 FED 718H | Sampling Condition: | Cool & Intact |
| Project Number: | 700794.320.01 | Sample Received By: | Jodi Henson |
| Project Location: | DEVON - LEA COUNTY | | |

Sample ID: SP - 2 2' (H000541-06)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 98.8 % 73.3-129

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 128 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 197 | 98.4 | 200 | 1.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 183 | 91.7 | 200 | 5.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 93.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 02/20/2020 | Sampling Date: | 02/19/2020 |
| Reported: | 02/27/2020 | Sampling Type: | Soil |
| Project Name: | TOMB RAIDER 1-12 FED 718H | Sampling Condition: | Cool & Intact |
| Project Number: | 700794.320.01 | Sample Received By: | Jodi Henson |
| Project Location: | DEVON - LEA COUNTY | | |

Sample ID: SP - 3 0' (H000541-07)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 97.7 % 73.3-129

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 32.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 197 | 98.4 | 200 | 1.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 183 | 91.7 | 200 | 5.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1-12 FED 718H
Project Number: 700794.320.01
Project Location: DEVON - LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP - 3 1' (H000541-08)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | <16.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 197 | 98.4 | 200 | 1.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 183 | 91.7 | 200 | 5.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.2 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 02/20/2020 | Sampling Date: | 02/19/2020 |
| Reported: | 02/27/2020 | Sampling Type: | Soil |
| Project Name: | TOMB RAIDER 1-12 FED 718H | Sampling Condition: | Cool & Intact |
| Project Number: | 700794.320.01 | Sample Received By: | Jodi Henson |
| Project Location: | DEVON - LEA COUNTY | | |

Sample ID: SP - 3 2' (H000541-09)

| BTEX 8021B | | mg/kg | | Analyzed By: CK | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 197 | 98.4 | 200 | 1.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 183 | 91.7 | 200 | 5.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.1 % 42.2-156

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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1-12 FED 718H
Project Number: 700794.320.01
Project Location: DEVON - LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP - 4 0' (H000541-10)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/26/2020 | ND | 1.86 | 93.0 | 2.00 | 4.46 | |
| Toluene* | <0.050 | 0.050 | 02/26/2020 | ND | 1.88 | 94.1 | 2.00 | 4.78 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/26/2020 | ND | 1.89 | 94.4 | 2.00 | 4.79 | |
| Total Xylenes* | <0.150 | 0.150 | 02/26/2020 | ND | 5.47 | 91.2 | 6.00 | 4.76 | |
| Total BTEX | <0.300 | 0.300 | 02/26/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 99.7 % 73.3-129

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 32.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 197 | 98.4 | 200 | 1.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 183 | 91.7 | 200 | 5.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.1 % 42.2-156

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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1-12 FED 718H
Project Number: 700794.320.01
Project Location: DEVON - LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP - 4 1' (H000541-11)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/26/2020 | ND | 1.99 | 99.5 | 2.00 | 5.45 | |
| Toluene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 99.8 | 2.00 | 5.21 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 100 | 2.00 | 5.12 | |
| Total Xylenes* | <0.150 | 0.150 | 02/26/2020 | ND | 5.92 | 98.6 | 6.00 | 5.18 | |
| Total BTEX | <0.300 | 0.300 | 02/26/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 99.5 % 73.3-129

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 48.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 197 | 98.4 | 200 | 1.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 183 | 91.7 | 200 | 5.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 96.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.3 % 42.2-156

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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1-12 FED 718H
Project Number: 700794.320.01
Project Location: DEVON - LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP - 4 2' (H000541-12)**BTEX 8021B****mg/kg****Analyzed By: CK**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/26/2020 | ND | 1.99 | 99.5 | 2.00 | 5.45 | |
| Toluene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 99.8 | 2.00 | 5.21 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 100 | 2.00 | 5.12 | |
| Total Xylenes* | <0.150 | 0.150 | 02/26/2020 | ND | 5.92 | 98.6 | 6.00 | 5.18 | |
| Total BTEX | <0.300 | 0.300 | 02/26/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

Chloride, SM4500Cl-B**mg/kg****Analyzed By: AC**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|-----------------|------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 112 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

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

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 197 | 98.4 | 200 | 1.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 183 | 91.7 | 200 | 5.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 94.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.0 % 42.2-156

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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1-12 FED 718H
Project Number: 700794.320.01
Project Location: DEVON - LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP - 5 0' (H000541-13)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/26/2020 | ND | 1.99 | 99.5 | 2.00 | 5.45 | |
| Toluene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 99.8 | 2.00 | 5.21 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 100 | 2.00 | 5.12 | |
| Total Xylenes* | <0.150 | 0.150 | 02/26/2020 | ND | 5.92 | 98.6 | 6.00 | 5.18 | |
| Total BTEX | <0.300 | 0.300 | 02/26/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 96.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 197 | 98.4 | 200 | 1.60 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 183 | 91.7 | 200 | 5.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1-12 FED 718H
Project Number: 700794.320.01
Project Location: DEVON - LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP - 5 1' (H000541-14)

| BTEX 8021B | | mg/kg | | Analyzed By: CK | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/26/2020 | ND | 1.99 | 99.5 | 2.00 | 5.45 | |
| Toluene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 99.8 | 2.00 | 5.21 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 100 | 2.00 | 5.12 | |
| Total Xylenes* | <0.150 | 0.150 | 02/26/2020 | ND | 5.92 | 98.6 | 6.00 | 5.18 | |
| Total BTEX | <0.300 | 0.300 | 02/26/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIB) 100 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/27/2020 | ND | 207 | 104 | 200 | 0.537 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/27/2020 | ND | 220 | 110 | 200 | 10.8 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/27/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.5 % 42.2-156

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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1-12 FED 718H
Project Number: 700794.320.01
Project Location: DEVON - LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP - 5 2' (H000541-15)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/26/2020 | ND | 1.99 | 99.5 | 2.00 | 5.45 | |
| Toluene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 99.8 | 2.00 | 5.21 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 100 | 2.00 | 5.12 | |
| Total Xylenes* | <0.150 | 0.150 | 02/26/2020 | ND | 5.92 | 98.6 | 6.00 | 5.18 | |
| Total BTEX | <0.300 | 0.300 | 02/26/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 112 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/27/2020 | ND | 207 | 104 | 200 | 0.537 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/27/2020 | ND | 220 | 110 | 200 | 10.8 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/27/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 96.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

Cardinal Laboratories

*—Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1-12 FED 718H
Project Number: 700794.320.01
Project Location: DEVON - LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP - 6 0' (H000541-16)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/26/2020 | ND | 1.99 | 99.5 | 2.00 | 5.45 | |
| Toluene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 99.8 | 2.00 | 5.21 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 100 | 2.00 | 5.12 | |
| Total Xylenes* | <0.150 | 0.150 | 02/26/2020 | ND | 5.92 | 98.6 | 6.00 | 5.18 | |
| Total BTEX | <0.300 | 0.300 | 02/26/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 99.7 % 73.3-129

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 80.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/27/2020 | ND | 207 | 104 | 200 | 0.537 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/27/2020 | ND | 220 | 110 | 200 | 10.8 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/27/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.9 % 42.2-156

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*—Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1-12 FED 718H
Project Number: 700794.320.01
Project Location: DEVON - LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP - 6 1' (H000541-17)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/26/2020 | ND | 1.99 | 99.5 | 2.00 | 5.45 | |
| Toluene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 99.8 | 2.00 | 5.21 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 100 | 2.00 | 5.12 | |
| Total Xylenes* | <0.150 | 0.150 | 02/26/2020 | ND | 5.92 | 98.6 | 6.00 | 5.18 | |
| Total BTEX | <0.300 | 0.300 | 02/26/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 99.5 % 73.3-129

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 32.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/27/2020 | ND | 207 | 104 | 200 | 0.537 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/27/2020 | ND | 220 | 110 | 200 | 10.8 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/27/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 88.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.5 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1-12 FED 718H
Project Number: 700794.320.01
Project Location: DEVON - LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP - 6 2' (H000541-18)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/26/2020 | ND | 1.99 | 99.5 | 2.00 | 5.45 | |
| Toluene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 99.8 | 2.00 | 5.21 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/26/2020 | ND | 2.00 | 100 | 2.00 | 5.12 | |
| Total Xylenes* | <0.150 | 0.150 | 02/26/2020 | ND | 5.92 | 98.6 | 6.00 | 5.18 | |
| Total BTEX | <0.300 | 0.300 | 02/26/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 128 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 3.77 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/27/2020 | ND | 207 | 104 | 200 | 0.537 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/27/2020 | ND | 220 | 110 | 200 | 10.8 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/27/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 93.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.1 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

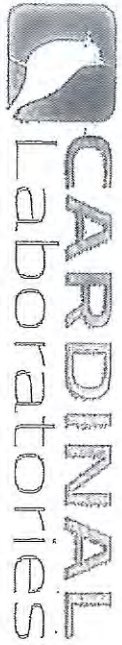
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*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

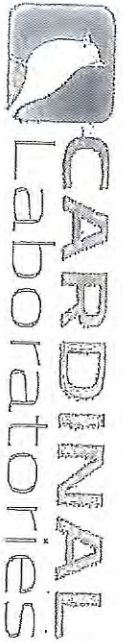


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2478

| | | | |
|---|-------------|--|--------------|
| Company Name: Talon LPE | | P.O. # 700-794,320.01 | |
| Project Manager: Chris Jones | | Company: Talon LPE | |
| Address: 408 W Texas Ave | | Attn: Chris Jones | |
| City: Artesia | | Address: | |
| Phone #: 575-746-8768 | | State: NM Zip: 88210 | |
| Project #: 700794.320.01 | | Project Owner: Devon Energy | |
| Project Name: Tomb Raider L-12 Fed 718H | | City: | |
| Project Location: Lea County | | State: | |
| Sample Name: Brandon Sinclair | | Phone #: | |
| FOR LAB USE ONLY | | Fax #: | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS |
| H000541 | | GROUNDWATER | |
| | | WASTEWATER | |
| | | SOIL | |
| | | OIL | |
| | | SLUDGE | |
| | | OTHER: | |
| | | ACID/BASE: | |
| | | ICE / COOL | |
| | | OTHER: | |
| | | DATE | TIME |
| 1 | SP-1 0' | 2-19-20 | 13:39 |
| 2 | SP-1 1' | | 13:42 |
| 3 | SP-1 2' | | 13:46 |
| 4 | SP-2 0' | | 13:51 |
| 5 | SP-2 1' | | 13:55 |
| 6 | SP-2 2' | | 13:59 |
| 7 | SP-3 0' | | 14:03 |
| 8 | SP-3 1' | | 14:07 |
| 9 | SP-3 2' | | 14:09 |
| 10 | SP-4 0' | | 14:32 |
| PLEASE NOTE: Liability and damages, Cardinal's liability and clients exclusive remedy for any claim arising from the use of the sample, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 90 days of the date of the analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client. The undersigned acknowledges receipt of the sample and agrees to the terms and conditions of the above stated request and analysis. | | ANALYSIS REQUEST | |
| Relinquished By: Br. Sinclair | | Received By: Shadi Mubson | |
| Date: 5/13/20 | | Time: 13:40 | |
| Delivered By: (Circle One) #113 | | Sample Condition | |
| Sampler - LPS - Bus - Other: 540 | | Cool: <input checked="" type="checkbox"/> Intact: <input checked="" type="checkbox"/> | |
| | | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | |
| Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 | | CHECKED BY: [Signature] | |
| Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: | | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: | |
| REMARKS: | | Pg 1 of 2 | |



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

| | | | |
|---|--|-----------------------------|--|
| Company Name: Talon LPE | | P.O. #: 710794.320.01 | |
| Project Manager: Chris Jones | | Company: Talon LPE | |
| Address: 408 W Texas Ave | | Attn: Chris Jones | |
| City: Artesia | | Address: | |
| Phone #: 575-746-6768 | | City: | |
| Fax #: 575-746-6768 | | State: | |
| Project #: 710794.320.01 | | Zip: | |
| Project Name: Tomb Raider 1-12 Fed ZIRK | | Project Owner: Devon Energy | |
| Project Location: Lea County | | Phone #: | |
| Sampler Name: Brandon Sinclair | | Fax #: | |

| Lab I.D. | Sample I.D. | FOR LAB USE ONLY | | MATRIX | | PRESERV | | SAMPLING | | DATE | TIME | ANALYSIS |
|----------|-------------|-------------------|--------------|-------------|------------|---------|-----|----------|--------|---------|-------|-----------------|
| | | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | | | |
| H000541 | SP-4 1' | G | | | | | | | | 2-19-20 | 14:35 | Total Chlorides |
| | SP-4 2' | | | | | | | | | | 14:39 | BTEX |
| | SP-5 0' | | | | | | | | | | 14:22 | TPH EXT |
| | SP-5 1' | | | | | | | | | | 14:26 | |
| | SP-5 2' | | | | | | | | | | 14:29 | |
| | SP-6 0' | | | | | | | | | | 14:11 | |
| | SP-6 1' | | | | | | | | | | 14:15 | |
| | SP-6 2' | | | | | | | | | | 14:18 | |

| | | | |
|----------------------------|---|------------------|-------------|
| Delivered By: (Circle One) | Sampler: UPS - Bus - Other: #113 / 5:42 | Sample Condition | Checked By: |
| | | Cool / Intact | |
| | | Yes / No | |
| | | No / Yes | |

| | |
|-------------------------------------|--------------------------------------|
| Relinquished By: <i>Chris Jones</i> | Received By: <i>Brandon Sinclair</i> |
| Date: <i>5/20/20</i> | Time: <i>13:40</i> |
| Remarks: | |

| | | | |
|----------------|-----|----|----------------|
| Phone Results: | Yes | No | Add'l Phone #: |
| Fax Results: | Yes | No | Add'l Fax #: |



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

February 27, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TOMB RAIDER 1 CTB 3

Enclosed are the results of analyses for samples received by the laboratory on 02/20/20 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 02/20/2020 | Sampling Date: | 02/19/2020 |
| Reported: | 02/27/2020 | Sampling Type: | Soil |
| Project Name: | TOMB RAIDER 1 CTB 3 | Sampling Condition: | Cool & Intact |
| Project Number: | 700794.322.01 | Sample Received By: | Jodi Henson |
| Project Location: | LEA COUNTY | | |

Sample ID: S-1 0-1' (H000540-01)

| BTEX 8021B | | mg/kg | | Analyzed By: CK | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 432 | 16.0 | 02/24/2020 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 195 | 97.6 | 200 | 1.88 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 214 | 107 | 200 | 3.72 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.2 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1 CTB 3
Project Number: 700794.322.01
Project Location: LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 2' (H000540-02)

| BTEX 8021B | | | mg/kg | | Analyzed By: CK | | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 99.4 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | | | | | | Analyzed By: AC | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|-----------------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | | |
| Chloride | 64.0 | 16.0 | 02/24/2020 | ND | 432 | 108 | 400 | 0.00 | | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 195 | 97.6 | 200 | 1.88 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 214 | 107 | 200 | 3.72 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.7 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1 CTB 3
Project Number: 700794.322.01
Project Location: LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0-1' (H000540-03)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 98.7 % 73.3-129

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 480 | 16.0 | 02/24/2020 | ND | 432 | 108 | 400 | 0.00 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 195 | 97.6 | 200 | 1.88 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 214 | 107 | 200 | 3.72 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1 CTB 3
Project Number: 700794.322.01
Project Location: LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 2' (H000540-04)

| BTEX 8021B | | | mg/kg | | | | | | | |
|----------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|--|
| | | | Analyzed By: CK | | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 97.8 % 73.3-129

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 16.0 | 16.0 | 02/24/2020 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 195 | 97.6 | 200 | 1.88 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 214 | 107 | 200 | 3.72 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 02/20/2020 | Sampling Date: | 02/19/2020 |
| Reported: | 02/27/2020 | Sampling Type: | Soil |
| Project Name: | TOMB RAIDER 1 CTB 3 | Sampling Condition: | Cool & Intact |
| Project Number: | 700794.322.01 | Sample Received By: | Jodi Henson |
| Project Location: | LEA COUNTY | | |

Sample ID: S-3 0-1' (H000540-05)

| BTEX 8021B | | mg/kg | | Analyzed By: CK | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 98.9 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 02/24/2020 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 195 | 97.6 | 200 | 1.88 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 214 | 107 | 200 | 3.72 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.0 % 42.2-156

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* = Accredited Analyte

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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 02/20/2020 | Sampling Date: | 02/19/2020 |
| Reported: | 02/27/2020 | Sampling Type: | Soil |
| Project Name: | TOMB RAIDER 1 CTB 3 | Sampling Condition: | Cool & Intact |
| Project Number: | 700794.322.01 | Sample Received By: | Jodi Henson |
| Project Location: | LEA COUNTY | | |

Sample ID: S-3 2' (H000540-06)

| BTEX 8021B | | mg/kg | Analyzed By: CK | | | | | | |
|----------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | Analyzed By: CK | | | | | | |
|------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 195 | 97.6 | 200 | 1.88 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/26/2020 | ND | 214 | 107 | 200 | 3.72 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.9 % 42.2-156

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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1 CTB 3
Project Number: 700794.322.01
Project Location: LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 0-1' (H000540-07)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|-----------------------|--------------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | 0.604 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTEX | 0.604 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 73.3-129

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|-----------------|------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 112 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------------------|-------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10* | 15.1 | 10.0 | 02/26/2020 | ND | 195 | 97.6 | 200 | 1.88 | |
| DRO >C10-C28* | 280 | 10.0 | 02/26/2020 | ND | 214 | 107 | 200 | 3.72 | |
| EXT DRO >C28-C36 | 35.2 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 97.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/20/2020
Reported: 02/27/2020
Project Name: TOMB RAIDER 1 CTB 3
Project Number: 700794.322.01
Project Location: LEA COUNTY

Sampling Date: 02/19/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 2' (H000540-08)**BTEX 8021B**

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Benzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.94 | 96.9 | 2.00 | 2.22 | |
| Toluene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.95 | 97.5 | 2.00 | 3.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2020 | ND | 1.97 | 98.5 | 2.00 | 2.70 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2020 | ND | 5.72 | 95.4 | 6.00 | 2.53 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2020 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 98.7 % 73.3-129

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 32.0 | 16.0 | 02/24/2020 | ND | 416 | 104 | 400 | 0.00 | |

TPH 8015M

mg/kg

Analyzed By: CK

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10* | <10.0 | 10.0 | 02/26/2020 | ND | 195 | 97.6 | 200 | 1.88 | |
| DRO >C10-C28* | 20.7 | 10.0 | 02/26/2020 | ND | 214 | 107 | 200 | 3.72 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/26/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 97.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

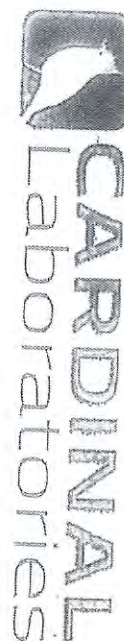
| | |
|-------|--|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | |
|--|--|------------------------------------|--|
| Company Name: Talon LPF | | P.O. # 700794.322-1 | |
| Project Manager: Chris Jones | | Company: Talon LPF | |
| Address: 408 W Texas Ave | | Attn: Chris Jones | |
| City: Artesia | | Address: | |
| Phone #: 575-746-8768 | | State: NM Zip: 88210 | |
| Project #: 700794.322-01 | | Project Owner: Devon Energy | |
| Project Name: Tomb Raider 1 CTR 3 | | City: | |
| Project Location: Lea County | | State: | |
| Sample Name: Brandon Sinclair | | Phone #: | |
| FOR LAB USE ONLY | | Fax #: | |

| Lab I.D. | Sample I.D. | (C)RAB OR (C)OMP. | # CONTAINERS | MATRIX | PRESERV. | SAMPLING | DATE | TIME | ANALYSIS REQUEST |
|----------|-------------|-------------------|--------------|-------------|----------|----------|---------|-------|------------------|
| AD005410 | 5-1 0-1' | G | | GROUNDWATER | | | 2-19-20 | 10:25 | Total Chlorides |
| | 5-1 2' | | | WASTEWATER | | | 10:31 | | BTEX |
| | 5-2 0-1' | | | SOIL | | | 10:44 | | TPH EXT |
| | 5-2 2' | | | OIL | | | 10:47 | | |
| | 5-3 0-1' | | | SLUDGE | | | 10:50 | | |
| | 5-3 2' | | | OTHER: | | | 10:56 | | |
| | 5-4 0-1' | | | ACID/BASE: | | | 11:03 | | |
| | 5-4 2' | | | ICE / COOL | | | 11:08 | | |
| | | | | OTHER: | | | | | |

| | | |
|---|--|--------------------|
| Delivered By: (Circle One) | Sample Condition | CHECKED BY: |
| Sampler - UPS - Bus - Other: #113 / 5.42 | Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | [Signature] |
| Relinquished By: [Signature] | Received By: [Signature] | |
| Date: 5/3/20 | Time: 11:03 | |
| REMARKS: | | |

Phone Result: ☐ Yes ☐ No ☐ No - Add'l Phone #
Fax Result: ☐ Yes ☐ No - Add'l Fax #

991071



APPENDIX VI

LOWRY ENVIRONMENTAL WORK PLAN



February 14, 2019

Mike Bratcher & Robert Hamlet
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210

Ryan Mann
Hobbs Field Office
New Mexico State Land Office
2827 North Dal Paso Street, Suite 117
Hobbs, NM 88240

| | |
|----------------|---------|
| Incident ID | pending |
| District RP | pending |
| Facility ID | pending |
| Application ID | pending |

Re: Site Assessment Report and Proposed Remediation Plan
Site Name: Tomb Raider 1-12 Fed 718H
GPS: Latitude: 32.34271 Longitude: -103.73229
Legals: UL "A", Sec. 1, T23S, R31E
EddyCounty, New Mexico
NMOCD Ref. No. pending

Lowry Environmental & Associates, LLC (LEA), on behalf of Fluid Delivery Solutions, LLC, has prepared this Site Assessment Report and Proposed Remediation Plan for the Release Site known as the Tomb Raider 1-12 Fed 718H. Details of the release are summarized on the table below:

| Nature and Volume of Release | |
|---|--|
| Date Release Discovered | 10/26/2018 |
| Type of Release | Produced and Fresh Water Mix |
| Cause of Release | The release was attributed to the failure of a lay flat hose as a result of a valve inadvertently being left closed. |
| Affected Area | The release affected an area on the north side of the caliche access road measuring approximately 1,800 sq. ft. |
| Was this a major release? | If YES, for what reasons (s) is this considered a major release? |
| Yes | Unauthorized release of a volume of liquids exceeding 25 bbls. |
| If Yes, was immediate notice given to the OCD? By whom? To whom? When and by what means? | |
| Yes, Brett Fulks at Devon emailed Shelly Tucker, Maria Pruett, Mike Bratcher, and Jim Griswold at 4:08 PM on 10/27/2018 | |

A copy of the Release Notification (NMOCD Form C-141) is provided as Attachment #9.

| | |
|----------------|---------|
| Incident ID | pending |
| District RP | pending |
| Facility ID | pending |
| Application ID | pending |

Site Assessment/Characterization

| | |
|---|------------|
| What is the shallowest depth to groundwater beneath the area affected by the release? | 50-100 Ft. |
| Did this release impact groundwater or surface water? | No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | 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 horizontal feet of a spring or a 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 1000 feet of any other fresh water well or spring? | No |
| Are the lateral extents of the release within incorporated municipal boundaries or 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? | No |
| Are the lateral extents of the release within a 100-year floodplain? | No |
| Did the release impact areas not on an exploration, development, production or storage site? | Yes |

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey was conducted in an effort to determine the average depth to groundwater within a 1 Mile radius of the Site and identify any registered water wells within a 1/2 Mile radius of the Site. If none were identified, or the results were inconclusive, the approximate depth to groundwater was extrapolated from available data including the Depth to Groundwater Map utilized by the NMOCD.

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

| Closure Criteria for Soil Impacted by a Release | |
|---|--------------|
| Benzene | 10 mg/kg |
| Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX) | 50 mg/kg |
| Total Petroleum Hydrocarbons | 2,500 mg/kg |
| Combined GRO and DRO | 1,000 mg/kg |
| Chloride | 20,000 mg/kg |

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2. Depth to groundwater information is provided as Attachment #4. A Photographic Log is provided as Attachment #8.

| | |
|----------------|---------|
| Incident ID | pending |
| District RP | pending |
| Facility ID | pending |
| Application ID | pending |

INITIAL SITE ASSESSMENT

On **January 25, 2019**, an initial assessment was conducted at the Site. During the initial assessment, twelve (12) soil samples were collected from within the release margins in an effort to determine if soil was affected above the NMOCD Closure Criteria and/or the vertical and horizontal extent. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of BTEX, TPH and/or chloride concentrations. Laboratory analytical results indicated BTEX, TPH and/or chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Analytical results indicated BTEX, TPH and/or chloride concentrations were below the BLM Reclamation Standards in each of the submitted soil samples with the exception of soil samples SP #3 0-4", SP #3 18", SP #4 0-4", SP #5 0-4" and SP #6 0-4", which exhibited chloride concentrations of 2,080, 656, 768, 1,870, and 1,800 mg/kg, respectively.

A table summarizing laboratory analytical results from soil samples collected during the initial site assessment is provided below:

| Concentrations of BTEX, TPH and/or Chloride in Soil | | | | | | | | | | | |
|---|---------|-------|-------------|--------------------|-----------------|---|--|---|--|---|---------------------|
| Sample ID | Date | Depth | Soil Status | SW 846 8021B | | SW 846 8015M Ext. | | | | | 4500Cl |
| | | | | Benzene (mg/kg) | BTEX (mg/kg) | GRO C ₆ -C ₁₀ (mg/kg) | DRO C ₁₀ -C ₂₈ (mg/kg) | GRO + DRO C ₆ -C ₂₈ (mg/kg) | ORO C ₂₈ -C ₃₆ (mg/kg) | TPH C ₆ -C ₃₆ (mg/kg) | Chloride (mg/kg) |
| SP #1 0-4" | 1/25/19 | 0-4" | In-Situ | - | - | - | - | - | - | - | 80.0 |
| SP #1 18" | 1/25/19 | 18" | In-Situ | - | - | - | - | - | - | - | 160 |
| SP #2 0-4" | 1/25/19 | 0-4" | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 464 |
| SP #2 18" | 1/25/19 | 18" | In-Situ | - | - | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| SP #3 0-4" | 1/25/19 | 0-4" | In-Situ | - | - | - | - | - | - | - | 2,080 |
| SP #3 18" | 1/25/19 | 18" | In-Situ | - | - | - | - | - | - | - | 656 |
| SP #4 0-4" | 1/25/19 | 0-4" | In-Situ | - | - | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 768 |
| SP #4 18" | 1/25/19 | 18" | In-Situ | - | - | - | - | - | - | - | 64.0 |
| SP #5 0-4" | 1/25/19 | 0-4" | In-Situ | - | - | - | - | - | - | - | 1,870 |
| SP #5 18" | 1/25/19 | 18" | In-Situ | - | - | - | - | - | - | - | 336 |
| SP #6 0-4" | 1/25/19 | 0-4" | In-Situ | - | - | - | - | - | - | - | 1,800 |
| SP #6 18" | 1/25/19 | 18" | In-Situ | - | - | - | - | - | - | - | 176 |
| Closure Criteria | | | | 10 | 50 | - | - | 1,000 | - | 2,500 | 20,000 |

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #5. Soil profile observations are provided on Attachment #6. Laboratory analytical reports are provided as Attachment #7.

| | |
|----------------|---------|
| Incident ID | pending |
| District RP | pending |
| Facility ID | pending |
| Application ID | pending |

PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Fluid Delivery Solutions, LLC proposes the following remediation activities designed to advance the Site toward an approved closure:

- Utilizing mechanical equipment, excavate impacted soil within the release margins in the area characterized by sample point SP #3 to a depth beyond 18 in. bgs, until laboratory analytical results from confirmation soil samples indicate concentrations of chloride are below the applicable BLM Reclamation Standards. Impacted soil in the areas characterized by sample points SP #4, SP #5 and SP #6 will be excavated to a depth beyond 4 in. bgs, or until laboratory analytical results from confirmation soil samples indicate concentrations of chloride are below the applicable BLM Reclamation Standards.
- Excavated soil will be temporarily stockpiled on-site, pending transportation under manifest to an NMOCD-approved disposal facility.
- Upon receiving favorable laboratory analytical results from confirmation soil samples (below the NMOCD Closure Criteria and BLM Reclamation Standards) excavated areas will be backfilled with locally sourced, non-impacted "like" material. Excavation backfill will be placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than **50 linear ft.** A minimum of **one (1)** representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **200 square feet.** Additional, "discrete" confirmation soil samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary. Excavation confirmation soil samples will be analyzed for constituents of concern present above the NMOCD Closure Criteria as determined during the Initial Site Assessment.

TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed **within 90 days** of receiving necessary approval(s) of this Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately **200 cubic yards** of soil has been affected above the NMOCD Closure Criteria and BLM Reclamation Standards.

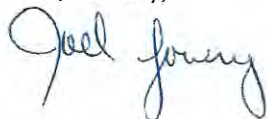
| | |
|----------------|---------|
| Incident ID | pending |
| District RP | pending |
| Facility ID | pending |
| Application ID | pending |

RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with a BLM-approved seed mixture during the first favorable growing season following closure of the site.

If you have any questions, or need any additional information, please feel free to contact Jess Foshee or the undersigned by phone or email.

Respectfully,



Joel W. Lowry
Environmental Professional
Lowry Environmental & Associates, LLC

Attachments:

- Attachment #1- Figure 1 - Topographic Map
- Attachment #2- Figure 2 - Aerial Map
- Attachment #3- Figure 3 - Site & Sample Location Map
- Attachment #4- Depth to Groundwater Information
- Attachment #5 Field Data
- Attachment #6- Soil Profile
- Attachment #7- Laboratory Analytical Reports
- Attachment #8- Photographic Log
- Attachment #9- Release Notification (FORM C-141)

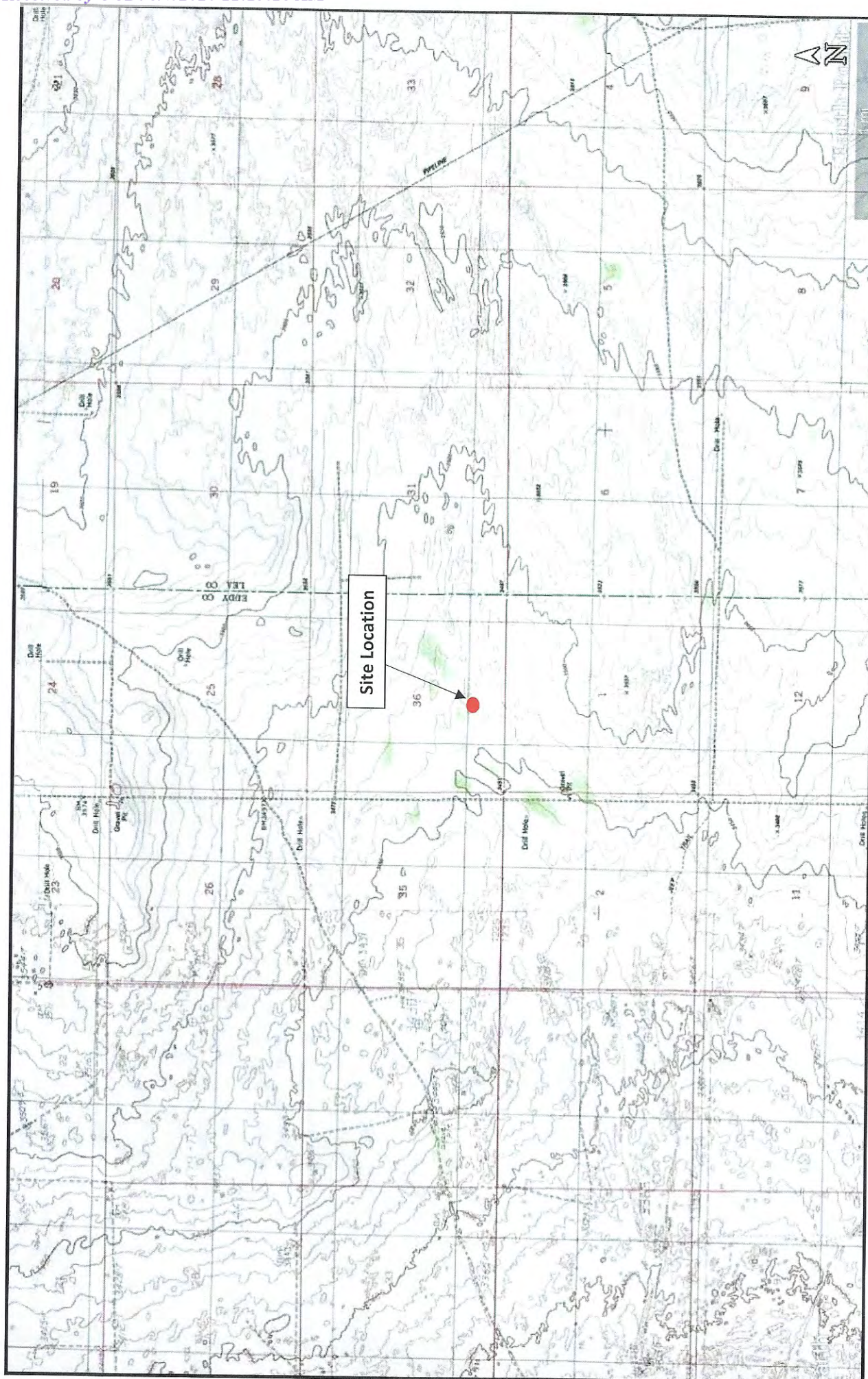
LIMITATIONS

This document has been prepared on behalf of Fluid Delivery Solutions, LLC. Use of information contained in this report, including exhibits and attachments, by any other party without the consent of LEA and/or Fluid Delivery Solutions, LLC is prohibited.

This document has been prepared in a professional manner, using the degree of skill and care exercised by similar environmental professionals. LEA notes that the facts and conditions referenced in this document may change over time and that the conclusions and recommendations are only applicable to the facts and conditions as described at the time this document was prepared.

LEA has prepared this report to the best of its ability. No other warranty, expressed or implied, is made or intended.

Attachment #1
Figure 1 - Topographic Map



LEGEND:

● Site Location

Figure 1

Topographic Map

Fluid Delivery Solutions, LLC

Tomb Raider 1-12 Fed 718H

GPS: 32.34271, -103.73229

EddyCounty, New Mexico

LOWRY

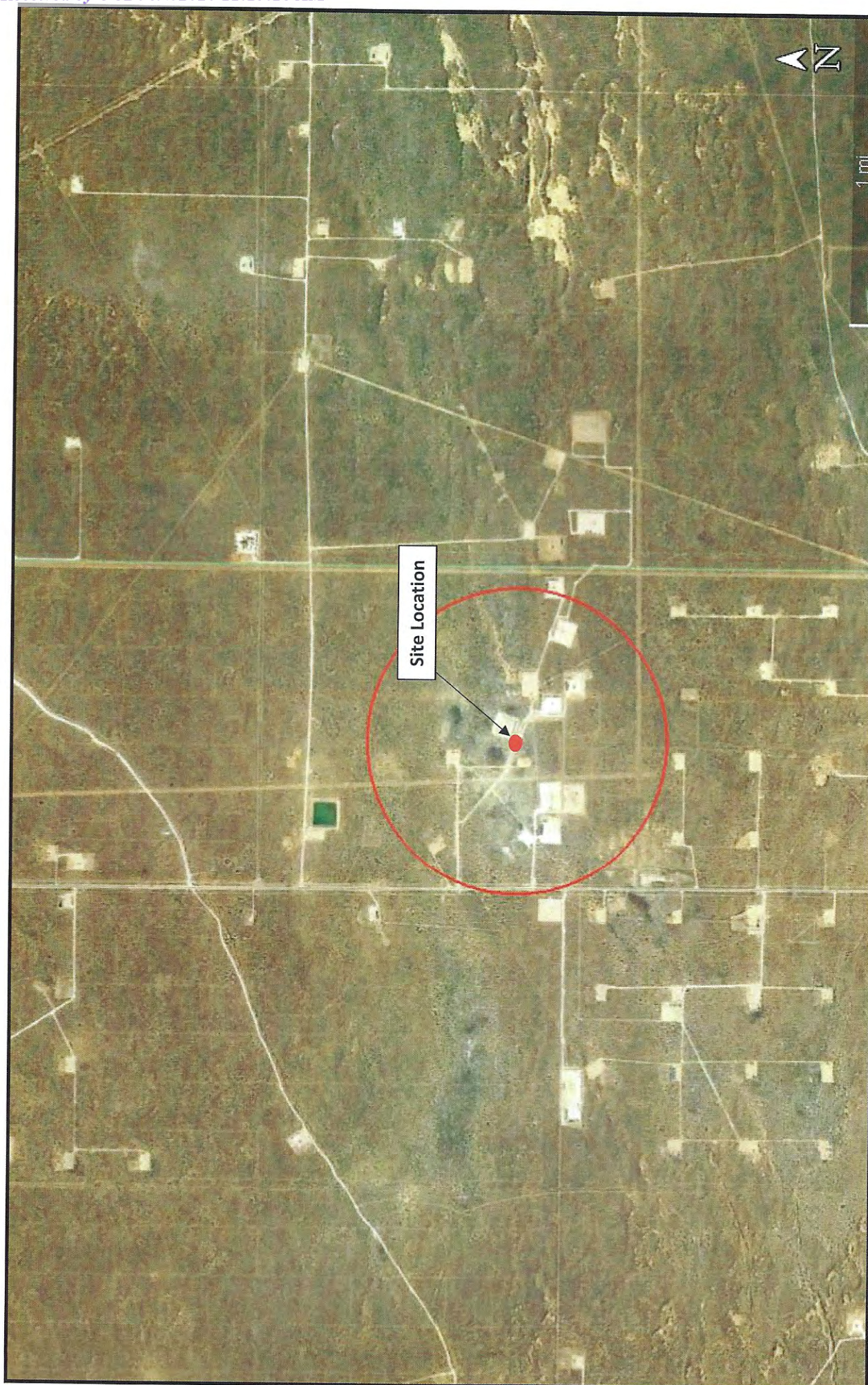
environmental

Drafted by: jwl

Checked by: client

Date: 2/14/2019

Attachment #2
Figure 2 - Aerial Map



Site Location

LEGEND:

- Site Location
- OSE Fresh Water Well
- 100-Year Floodplain
- High/Critical Karst
- Non-Industrial Building
- Subsurface Mine
- 1/2 Mile Radius
- Wetland

Figure 2

Aerial Map
 Fluid Delivery Solutions, LLC
 Tomb Raider 1-12 Fed 718H
 GPS: 32.34271, -103.73229
 EddyCounty, New Mexico

LOWRY
 environmental

Drafted by: jwl Checked by: client Date: 2/14/2019

Attachment #3
Figure 3 - Site & Sample Location Map

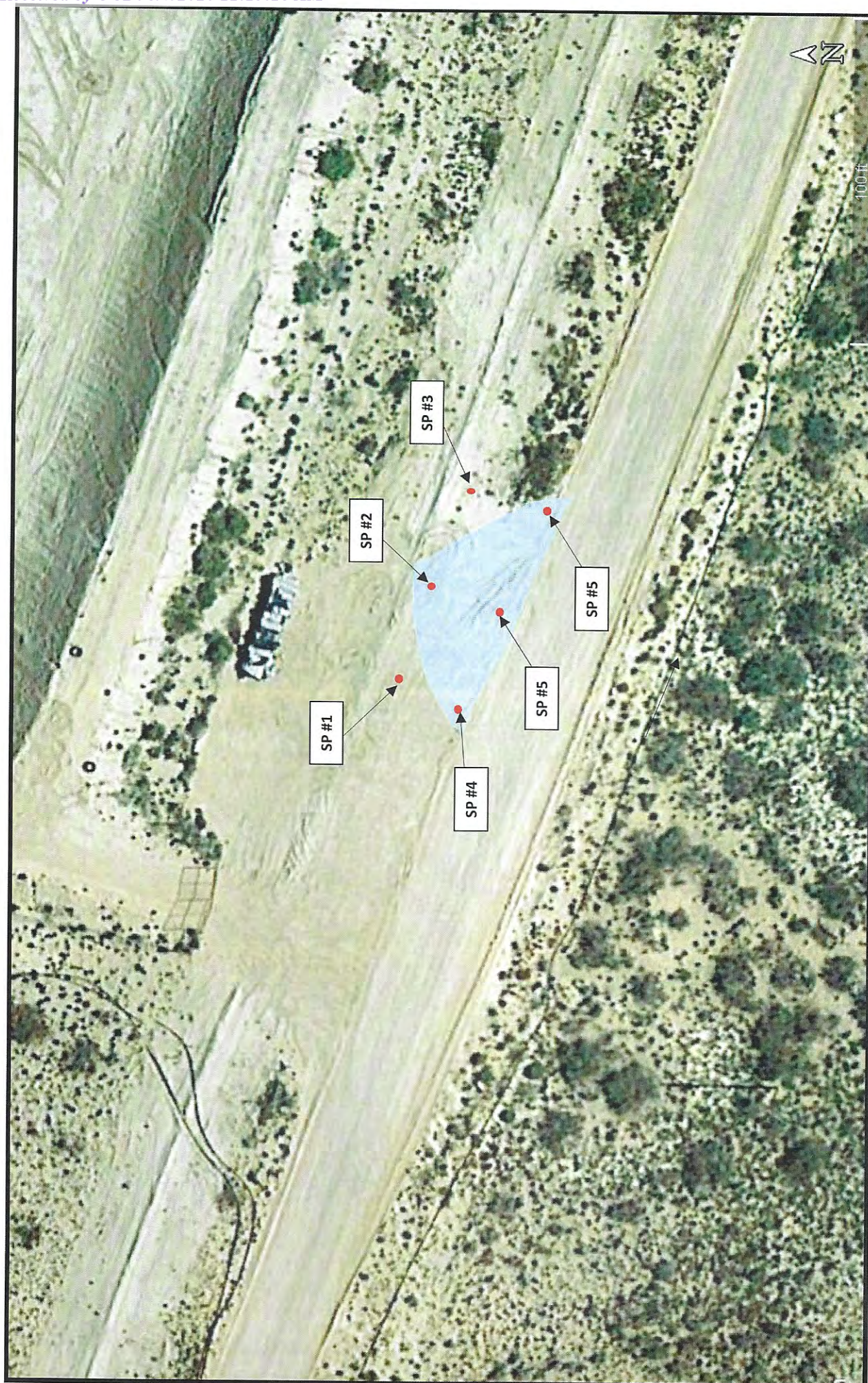


Figure 3

Site & Sample Location Map
Fluid Delivery Solutions, LLC
Tomb Raider 1-12 Fed 718H
GPS: 32.34271, -103.73229
EddyCounty, New Mexico

LOWRY
environmental

Drafted by: jwl

Checked by: client

Date: 2/14/2019

Attachment #4
Depth to Groundwater Information



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

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

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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 617248

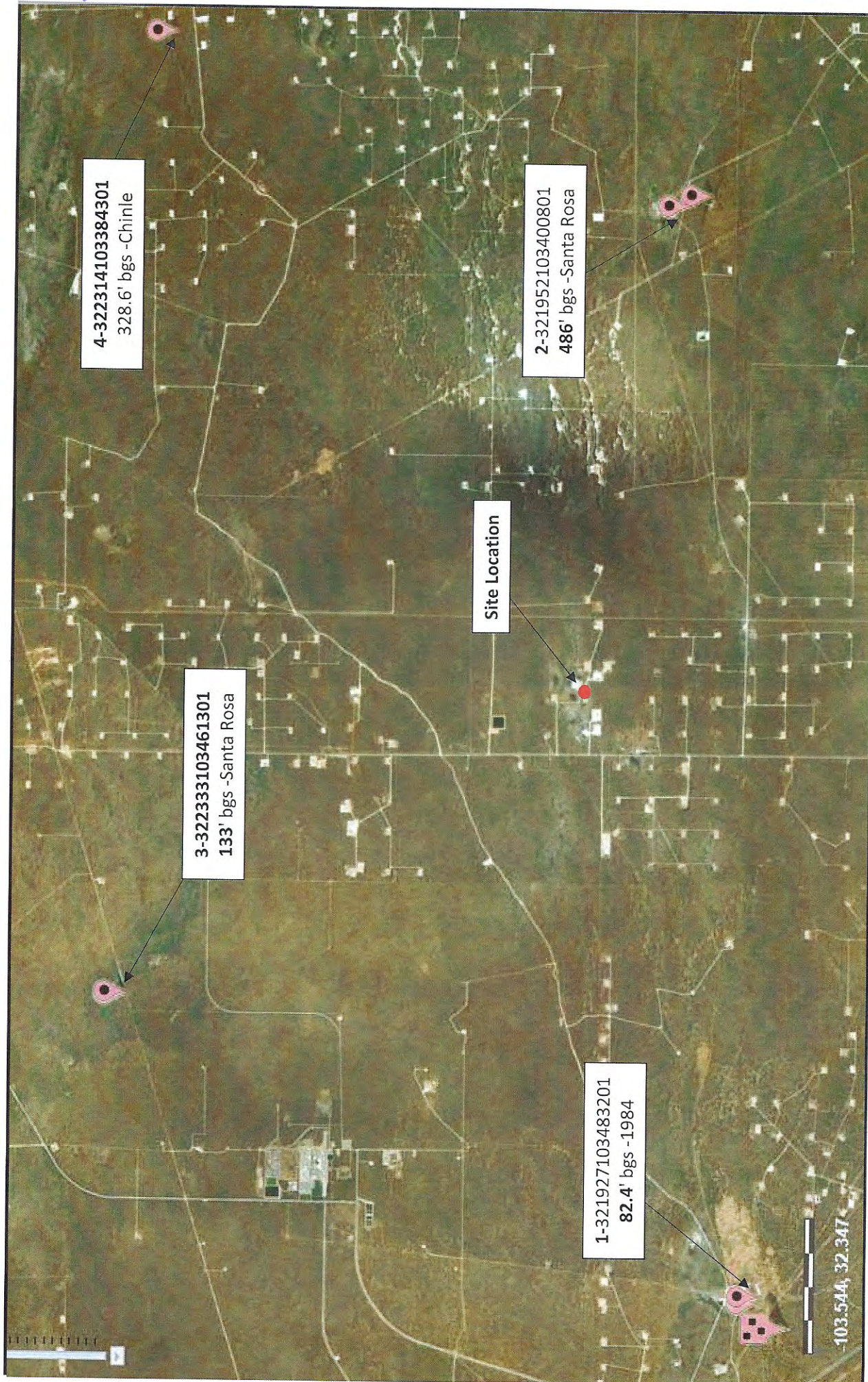
Northing (Y): 3552683

Radius: 1610

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

2/13/19 4:30 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



LEGEND:

● Site Location

Figure 4

Depth to Groundwater Map
Fluid Delivery Solutions, LLC
Tomb Raider 1-12 Fed 718H
GPS: 32.34271, -103.73229
EddyCounty, New Mexico

LOWRY
environmental

Drafted by: jwl Checked by: client Date: 2/14/2019



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- 320643103465002

Minimum number of levels = 1

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USGS 320643103465002 25S.31E.21.413314A

Eddy County, New Mexico

Latitude 32°06'46.0", Longitude 103°46'56.3" NAD83

Land-surface elevation 3,374.00 feet above NGVD29

The depth of the well is 400 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measur |
|------------|-----------|---|---|---|---------------------------------|------------------------------|-------------|-------------------------------|--------------------------|--------------------------|
| 1959-02-17 | | D | 318.02 | | | 2 | P | U | | |
| 2013-01-17 | 12:40 MST | m | | | | | D | S | USGS | |

Explanation

| Section | Code | Description |
|--------------------------------|------|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level date-time accuracy | m | Date is accurate to the Minute |
| Water-level accuracy | | Not determined |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | D | Site was dry (no water level was recorded). |
| Status | P | Site was being pumped. |
| Method of measurement | S | Steel-tape measurement. |
| Method of measurement | U | Unknown method. |
| Measuring agency | | Not determined |
| Measuring agency | USGS | U.S. Geological Survey |
| Source of measurement | R | Reported by person other than the owner, driller, or another government agency. |
| Source of measurement | U | Source is unknown. |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

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0.53 0.49 nadww01





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- 320932103443801

Minimum number of levels = 1

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USGS 320932103443801 25S.31E.02.23441

Eddy County, New Mexico

Latitude 32°09'37.4", Longitude 103°44'29.6" NAD83

Land-surface elevation 3,460.00 feet above NGVD29

The depth of the well is 1,016 feet below land surface.

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

Output formats

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

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurement |
|------------|------|---|---|---|---------------------------------|------------------------------|-------------|-------------------------------|--------------------------|-------------------------------|
| 1966-08-18 | | D | 400.00 | | | 2 | | U | | |
| 1976-01-28 | | D | 390.27 | | | 2 | | U | | |

Explanation

| Section | Code | Description |
|--------------------------------|------|--|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Method of measurement | U | Unknown method. |
| Measuring agency | | Not determined |
| Source of measurement | U | Source is unknown. |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

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site_no list =

- 321005103402301

Minimum number of levels = 1

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USGS 321005103402301 24S.32E.33.42241

Lea County, New Mexico

Latitude 32°10'21.6", Longitude 103°40'18.9" NAD83

Land-surface elevation 3,499.00 feet above NGVD29

The depth of the well is 367 feet below land surface.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurement |
|------------|-----------|---|---|---|---------------------------------|------------------------------|-------------|-------------------------------|--------------------------|-------------------------------|
| 1959-02-18 | | | D 313.40 | | | | 2 | | U | |
| 1981-06-12 | | | D 304.40 | | | | 2 | | U | |
| 1986-03-11 | | | D 305.21 | | | | 2 | | U | |
| 1991-05-29 | | | D 287.45 | | | | 2 | | U | |
| 1996-03-14 | | | D 285.40 | | | | 2 | | S | |
| 2001-02-27 | | | D 288.68 | | | | 2 | | S | |
| 2013-01-17 | 09:30 MST | m | 289.69 | | | | 2 | | S | USGS |

Explanation

| Section | Code | Description |
|--------------------------------|------|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level date-time accuracy | m | Date is accurate to the Minute |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Method of measurement | S | Steel-tape measurement. |
| Method of measurement | U | Unknown method. |
| Measuring agency | | Not determined |
| Measuring agency | USGS | U.S. Geological Survey |
| Source of measurement | R | Reported by person other than the owner, driller, or another government agency. |
| Source of measurement | U | Source is unknown. |

| Section | Code | Description |
|-----------------------------|------|--|
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

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0.49 0.45 nadww01





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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320424103415401

Minimum number of levels = 1

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

USGS 320424103415401 26S.31E.01.421322

Eddy County, New Mexico

Latitude 32°04'24", Longitude 103°41'54" NAD27

Land-surface elevation 3,294 feet above NAVD88

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurment |
|------------|------|---|---|---|---------------------------------|------------------------------|-------------|-------------------------------|--------------------------|------------------------------|
| 1983-01-26 | | D | 290.12 | | | | 2 | | U | |
| 1983-02-14 | | D | 289.42 | | | | 2 | | U | |
| 1987-10-21 | | D | 289.90 | | | | 2 | | U | |

Explanation

| Section | Code | Description |
|--------------------------------|------|--|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Method of measurement | U | Unknown method. |
| Measuring agency | | Not determined |
| Source of measurement | U | Source is unknown. |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

[Questions about sites/data?](#)

[Feedback on this web site](#)

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[Data Tips](#)

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

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



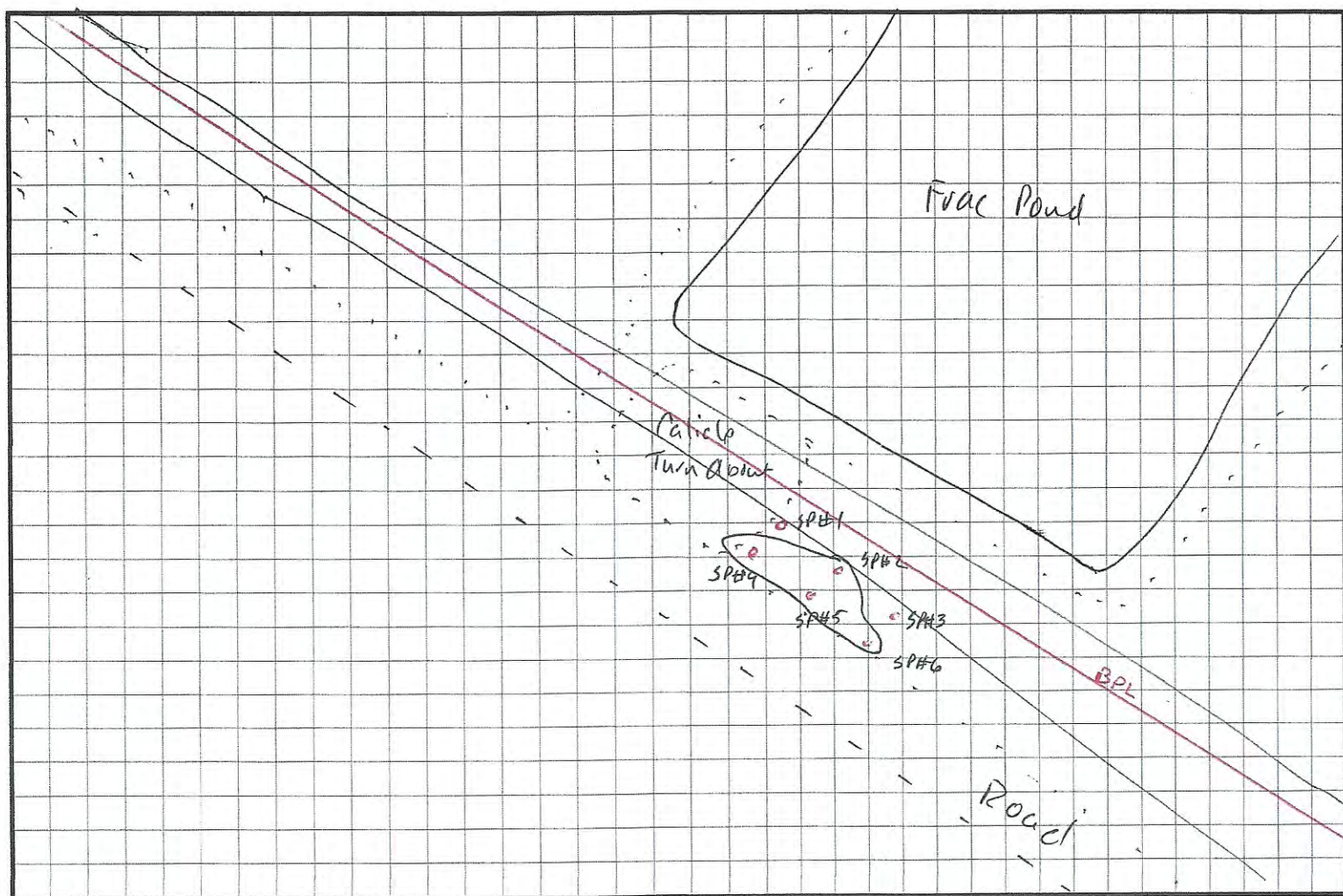
Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2019-02-13 18:48:10 EST

0.51 0.49 nadww01

Attachment #5
Field Data

FIELD NOTES

Site Name: Tomb Raider 1-12 Fed 7184Date: 10/26/2018

Visit Release Site, Surface Staining Visible on East Side of Turnabout, Low area
 Grid Sample to Look for Impacts
 Run Chloride Field Test

| Field ID | Odor/PID | Chloride |
|----------|----------|----------|
| SP#1 | None | <120 |
| SP#1 | " | <120 |
| | | |
| | | |

| Field ID | Odor/PID | Chloride |
|----------|----------|----------|
| SP#2 | None | 436 |
| SP#2 | " | <170 |
| | | |
| | | |

| Field ID | Odor/PID | Chloride |
|----------|----------|----------|
| SP#3 | None | 1780 |
| SP#3 | " | 564 |
| | | |
| | | |

| Field ID | Odor/PID | Chloride |
|----------|----------|----------|
| SP#4 | None | 588 |
| SP#4 | " | <170 |
| | | |
| | | |

| Field ID | Odor/PID | Chloride |
|----------|----------|----------|
| SP#5 | None | 1908 |
| SP#5 | " | 164 |
| | | |
| | | |

| Field ID | Odor/PID | Chloride |
|----------|----------|----------|
| SP#6 | None | 1360 |
| SP#6 | " | <170 |
| | | |
| | | |

Attachment #6
Soil Profile

SOIL PROFILE

Site Name: Tomb Raider 1-12 Fed 718HDate: 10/26/2018

| Description | Depth (ft. bgs) |
|-------------------|-----------------|
| Road Base/Caliche | 1 |
| Red / Brown Soil | 2 |
| | 3 |
| | 4 |
| | 5 |
| | 6 |
| | 7 |
| | 8 |
| | 9 |
| | 0 |
| | 1 |
| | 2 |
| | 3 |
| | 4 |
| | 5 |
| | 6 |
| | 7 |
| | 8 |
| | 9 |
| | 0 |
| | 1 |
| | 2 |
| | 3 |
| | 4 |
| | 5 |
| | 6 |
| | 7 |
| | 8 |
| | 9 |
| | 0 |
| | 1 |
| | 2 |
| | 3 |
| | 4 |
| | 5 |
| | 6 |
| | 7 |
| | 8 |
| | 9 |
| | 0 |

Attachment #7
Laboratory Analytical Reports



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

February 01, 2019

JOEL LOWRY

LOWRY ENVIROMENTAL & ASSOCIATES

PO BOX 296

LOVINGTON, NM 88260

RE: TOMB RAIDER 718 PUMP

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

LOWRY ENVIROMENTAL & ASSOCIATES
 JOEL LOWRY
 PO BOX 296
 LOVINGTON NM, 88260
 Fax To:

Received: 01/30/2019
 Reported: 02/01/2019
 Project Name: TOMB RAIDER 718 PUMP
 Project Number: NONE GIVEN
 Project Location: FLUID DELIVERY - LEA CO NM

Sampling Date: 01/25/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP # 1 0-4" (H900329-01)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 01/31/2019 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP # 1 18" (H900329-02)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 01/31/2019 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP # 2 0-4" (H900329-03)

| BTEx 8021B | | | mg/kg | | | | | | | Analyzed By: ms | |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|-----------------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | | |
| Benzene* | <0.050 | 0.050 | 01/31/2019 | ND | 2.36 | 118 | 2.00 | 0.804 | | | |
| Toluene* | <0.050 | 0.050 | 01/31/2019 | ND | 2.24 | 112 | 2.00 | 0.837 | | | |
| Ethylbenzene* | <0.050 | 0.050 | 01/31/2019 | ND | 2.20 | 110 | 2.00 | 1.03 | | | |
| Total Xylenes* | <0.150 | 0.150 | 01/31/2019 | ND | 6.73 | 112 | 6.00 | 1.10 | | | |
| Total BTEx | <0.300 | 0.300 | 01/31/2019 | ND | | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.3-129

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 464 | 16.0 | 01/31/2019 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | | |
|-----------|--------|-----------------|-----------------|--------------|----|------------|---------------|-----|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

LOWRY ENVIROMENTAL & ASSOCIATES
 JOEL LOWRY
 PO BOX 296
 LOVINGTON NM, 88260
 Fax To:

Received: 01/30/2019
 Reported: 02/01/2019
 Project Name: TOMB RAIDER 718 PUMP
 Project Number: NONE GIVEN
 Project Location: FLUID DELIVERY - LEA CO NM

Sampling Date: 01/25/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP # 2 0-4" (H900329-03)

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2019 | ND | 171 | 85.3 | 200 | 1.48 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/31/2019 | ND | 177 | 88.5 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/31/2019 | ND | | | | | |
| | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 91.1 % | 41-142 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 84.0 % | 37.6-147 | | | | | | | |

Sample ID: SP # 2 18" (H900329-04)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 01/31/2019 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2019 | ND | 171 | 85.3 | 200 | 1.48 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/31/2019 | ND | 177 | 88.5 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/31/2019 | ND | | | | | |
| | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 94.0 % | 41-142 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 83.1 % | 37.6-147 | | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

LOWRY ENVIROMENTAL & ASSOCIATES
 JOEL LOWRY
 PO BOX 296
 LOVINGTON NM, 88260
 Fax To:

Received: 01/30/2019
 Reported: 02/01/2019
 Project Name: TOMB RAIDER 718 PUMP
 Project Number: NONE GIVEN
 Project Location: FLUID DELIVERY - LEA CO NM

Sampling Date: 01/25/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP # 3 0-4" (H900329-05)

| Chloride, SM4500Cl-B | | | mg/kg | | | | | | | Analyzed By: AC | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|-----------------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | | |
| Chloride | 2080 | 16.0 | 01/31/2019 | ND | 416 | 104 | 400 | 0.00 | | | |

Sample ID: SP # 3 18" (H900329-06)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 656 | 16.0 | 01/31/2019 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP # 4 0-4" (H900329-07)

| Chloride, SM4500Cl-B | | | mg/kg | | | | | | | Analyzed By: AC | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|-----------------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | | |
| Chloride | 768 | 16.0 | 01/31/2019 | ND | 416 | 104 | 400 | 0.00 | | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2019 | ND | 171 | 85.3 | 200 | 1.48 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/31/2019 | ND | 177 | 88.5 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/31/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.6 % 41-142

Surrogate: 1-Chlorooctadecane 72.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

LOWRY ENVIROMENTAL & ASSOCIATES
 JOEL LOWRY
 PO BOX 296
 LOVINGTON NM, 88260
 Fax To:

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 01/30/2019 | Sampling Date: | 01/25/2019 |
| Reported: | 02/01/2019 | Sampling Type: | Soil |
| Project Name: | TOMB RAIDER 718 PUMP | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | FLUID DELIVERY - LEA CO NM | | |

Sample ID: SP # 4 18" (H900329-08)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 64.0 | 16.0 | 01/31/2019 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SP # 5 0-4" (H900329-09)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1870 | 16.0 | 01/31/2019 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP # 5 18" (H900329-10)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 336 | 16.0 | 01/31/2019 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP # 6 0-4" (H900329-11)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1800 | 16.0 | 01/31/2019 | ND | 416 | 104 | 400 | 0.00 | QM-07 |

Sample ID: SP # 6 18" (H900329-12)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 176 | 16.0 | 01/31/2019 | ND | 416 | 104 | 400 | 0.00 | |

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Celest D. Keene, Lab Director/Quality Manager



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Notes and Definitions

| | |
|-------|--|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

Lab I.D. _____ Sample I.D. _____

| |
|-------------------|
| (G)RAB OR (C)OMP. |
| # CONTAINERS |
| GROUNDWATER |
| WASTEWATER |
| SOIL |
| OIL |
| SLUDGE |
| OTHER : |
| ACID/BASE: |
| ICE / COOL |
| OTHER : |

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| | | | |
|------------------------------|------------------------------|-----------------------------|----------------|
| Phone Result: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Add'l Phone #: |
| Fax Result: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Add'l Fax #: |
| REMARKS: | | | |
| iodel@lowryenvironmental.com | | | |

+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Page 8 of 8

Fluid Delivery
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006 R 2.0

+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Attachment #8
Photographic Log

PHOTOLOG



Photo 1: View of the affected area and sample location, facing Northwest.



Photo 2: View of the affected area and sample location, facing Southwest.

PHOTOLOG



Photo 3: View of the affected area and sample location, facing Southeast.



Photo 4: View of the affected area and sample location, facing Southeast.

PHOTOLOG



Photo 5: View of the affected area and sample location, facing Southeast.



Photo 6: View of the affected area and sample location, facing Northwest.