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 | NVF1907328394 |
|----------------|---------------|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | Party BPX | Energy (formerly | y BP America Production Co.) | OGRID 7 | 78 | Final Closure Report | | |
|---|------------------------------|--|---|------------------------|---|--|--|--|
| Contact Name Steve Moskal | | | Contact Telephone (505) 330-9179 | | | | | |
| Contact emai | il steve.m | oskal@bpx.co | m | Incident # | eident # (assigned by OCD) nVF1907328394 | | | |
| Contact mail | ing address | 1199 Main Av | ve., Suite 101, Dura | ngo, CO 8 | 1301 | | | |
| | | | Location of F | Release So | ource | | | |
| atitude | 36. | .65827 | | Longitude _ | - | 107.71018 | | |
| | | | (NAD 83 in decimal de | egrees to 5 decim | nal places) | | | |
| Site Name R | iddle F L | S 001 (P&A si | te) | Site Type | Natural G | as Production Well Pad | | |
| Date Release | Discovered | | | API# (if app | licable) 30-0 | 45-07407 | | |
| | | 1 | | | | | | |
| Unit Letter | Section | Township | Range | County | | | | |
| \mathbf{L} | 17 | 28N | 08W | San Ju | uan | | | |
| f O | 🗆 64-4- | | | | | | | |
| urface Owner | | ⊠ Federal □ Ti | ribal Private (Name: Nature and Vo | lume of F | Release | | | |
| urface Owner | Materia | ⊠ Federal □ Ti | ribal Private (<i>Name:</i> Nature and Vo | lume of F | Release | | | |
| | Materia | Federal Ti | ribal Private (<i>Name:</i> Nature and Vo | lume of I | Release justification for Volume Re | the volumes provided below) | | |
| Crude Oil | Materia | Federal Tr | ribal Private (Name: Nature and Vo Il that apply and attach calcula ed (bbls) ed (bbls) N/A Historical tion of dissolved chlorid | lume of F | Release justification for Volume Re Volume Re | the volumes provided below) ecovered (bbls) ecovered (bbls) No | | |
| Crude Oil | Materia Water | Sederal Tr | ribal Private (Name: Nature and Vo Il that apply and attach calculated (bbls) ed (bbls) N/A Historical tion of dissolved chlorid >10,000 mg/l? | lume of F | Release justification for Volume Re Volume Re | the volumes provided below) covered (bbls) ecovered (bbls) | | |
| ☐ Crude Oil ☑ Produced | Materia Water | Seleased (Select a Volume Release Volume Release Is the concentra produced water | ribal Private (Name: Nature and Vo Il that apply and attach calculated (bbls) ed (bbls) N/A Historical tion of dissolved chlorid >10,000 mg/l? ed (bbls) | lume of F | Release justification for Volume Re Volume Re Yes | the volumes provided below) ecovered (bbls) ecovered (bbls) No | | |
| ☐ Crude Oil ☑ Produced ☐ Condensa | Materia Water | Federal Tri I(s) Released (Select a Volume Release Volume Release Is the concentral produced water Volume Release Volume Release Volume Release | ribal Private (Name: Nature and Vo Il that apply and attach calculated (bbls) ed (bbls) N/A Historical tion of dissolved chlorid >10,000 mg/l? ed (bbls) | I Stockpiles le in the | Release justification for Volume Re Volume Re Volume Re Volume Re Volume Re | the volumes provided below) ecovered (bbls) ecovered (bbls) No ecovered (bbls) | | |
| ☐ Crude Oil ☐ Produced ☐ Condensa ☐ Natural G | Materia Water te as scribe) | Federal Tri I(s) Released (Select a Volume Release Volume Release Is the concentral produced water Volume Release Volume Release Volume Release | ribal Private (Name: Nature and Vo Il that apply and attach calculated (bbls) Ed (bbls) N/A Historical tion of dissolved chlorid >10,000 mg/l? Ed (bbls) ed (Mcf) | I Stockpiles le in the | Release justification for Volume Re Volume Re Volume Re Volume Re Volume Re | the volumes provided below) ecovered (bbls) No ecovered (bbls) ecovered (bbls) ecovered (bbls) | | |

plugged and abandoned well pad for on-site remediation. Remediation Plan was submitted to the New Mexico Oil Conservation Divisions's (NMOCD) District III Aztec Office, dated 04/11/2019 (included). Closure sampling of the

stockpiles and vadose zone are included in this final report.

Form C-141 Page 6

State of New Mexico Oil Conservation Division

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

| Incident ID | nVF1907328394 |
|----------------|---------------|
| 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.

| A scaled site and sampling diagram as described in 19.15.29.11 | 1 NMAC |
|---|---|
| Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection) | of the liner integrity if applicable (Note: appropriate OCD District office |
| ☐ Laboratory analyses of final sampling (Note: appropriate ODC | District office must be notified 2 days prior to final sampling) |
| □ Description of remediation activities | |
| | |
| and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulat restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the OC | nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially additions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. |
| Printed Name: Erin Dunman | Title: Field Environmental Coordinator |
| Signature: Cun Dunnan | 09-Dec-2019 Date: |
| Signature: Cin Dunnen email: erin.dunman@bpx.com | Telephone: |
| | |
| OCD Only | |
| Received by: OCD | Date: 12/10/2019 |
| | of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations. |
| Closure Approved by: | Date:2/27/2020 |
| Printed Name: Cory | Title:Environmental Specialist |
| l <u></u> | |

BPX Energy Inc.

(Formerly BP America Production Company)

Riddle F LS 001

API #: 30-045-07407

Summary Record of Stockpile Soils Remediation

| August 5, 2005 | Initial sampling of treated stockpile soils (TSS) completed. A total of six (6) composite samples collected (<i>see Stockpile 2005 Sampling Event Section</i>). |
|---------------------------|---|
| <u>December 14, 2018</u> | Subsequent sampling of tss completed. A total of twenty (20) composite samples collected (<u>see Stockpile 2018 Sampling Event Section</u>). |
| <u>April 11, 2019</u> | Form C-141 Initial Report with Remediation Plan draft completed. Submitted & received by the New Mexico Oil Conservation Division (NMOCD) on same day via email. NMOCD approved on May 3, 2019 (<u>see Form C-141 Initial Report with Remediation Plan Section</u>). |
| <u>July 2019</u> | Initiated stockpile removal to Klein Mesa & Pine Mesa Pits. |
| <u>August 2019</u> | Completed stockpile removal. 11,935 cubic yards (c.y.) transported to Klein Mesa Pit and 5,095 c.y. to Pine Mesa Pit. |
| August 29, 2019 | Conducted vadose zone sampling of TSS areas (<u>see Vadose Zone Confirmation Section</u>). |
| <u>September 11, 2019</u> | Received 08/29/2019 vadose zone sampling laboratory report. A total of seven (7) areas exceeded 19.15.29 NMAC allowable concentrations for chloride and two (2) for Total Petroleum Hydrocarbons (TPH) per US EPA Method 8015M. |
| August 26, 2019 | Initiated additional soil removal of the seven (7) vadose zone areas. All areas excavated approximately two (2) feet in depth. Estimation of 200 c.y. were removed from each area or 1,400 c.y. total. Soils transported to Pine Mesa Pit (overall total - 6,495 c.y.). |
| October 3, 2019 | Conducted subsequent sampling of the seven (7) vadose zone TSS areas. |
| October 7, 2019 | Received 10/03/2019 final laboratory report. |
| October 11, 2019 | Recontouring of overall TSS area completed. |

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

April 17, 2019

Mr. Steve Moskal BPX Energy 1199 Main Ave, Ste. 101 Durango, Colorado 81301

Re: Riddle Soil Piles – Site History
(L) Sec 17 – T28N – R8W
San Juan County, NM

Dear Mr. Moskal:

At your request, Blagg Engineering, Inc. (BEI) has reviewed the origin, history and sampling analytical results of the soil stockpiles located at the Riddle F LS #1 (PxA) well site located in Largo Canyon, San Juan County, New Mexico (Figure 1). Detailed below are the results of this review.

Site History

Remedial stockpiles were first created at the Riddle F LS #1 wellsite in February, 1997 following a remedial excavation of hydrocarbon impacted soils on the well pad. The exact volume of soils was not established but estimated at between 10,000 - 12,000 cubic yards (CY). Additional soils were transported to the well pad for remediation in April, 1997 following a remedial excavation of hydrocarbon impacted soils at the Gooch #1E and Riddle F LS #3, a shared wellsite located at (F) Sec. 20 - T28N - R8W (also in the Largo Canyon, south of the Riddle F LS #1). The Gooch #1E/Riddle F LS #3 combined soil volume was estimated at approximately 4,150 CY. Cow manure was incorporated into all the soil stockpiles to augment remediation.

The stockpiles were first sampled for closure on August 5, 2005. At that time there were eight (8) separate piles identified (Figure 2). The estimated total volume of soil included in all stockpiles combined was 12,000 CY. Sampling was conducted using a backhoe to dig into the piles for collection of composite samples. Due to the relative pile sizes, composites for Piles #1 and #2 were combined, Piles #3 and #4 were combined, and the remained Piles #5, #6, #7 and #8 were composited individually. Laboratory testing only included U.S. EPA Method 8015 (total petroleum hydrocarbons, TPH). New Mexico Oil Conservation Division (NMOCD) guidelines in place at the time did not require to run U.S. EPA Method 8021 (BTEX) if field organic vapor meter testing reported below 100 ppm, which all composite piles passed. Additionally, chlorides were not regulated for onsite remedial activities in 2005 and these weren't included for analysis. This sample event was not witnessed by either NMOCD or BLM.

A second round of stockpile sampling was conducted on December 14, 2018. This sampling was performed to determine the existing state of remediation and to include U.S. EPA Method 8021 (BTEX) and Method 300 (Chlorides) as requested by NMOCD. It was clearly evident that large portions of Piles #1, #2 and #3 had been removed since the original August 2005 sample event. It was estimated that approximately 10,000 CY soil remained. For this event the stockpiles were measured into segments of approximately 500 CY each and an excavator trackhoe was used to collect 5-point composites from within each segment for laboratory analytical testing. NMOCD and BLM representatives were present to observe the sample event. The results of this sampling were documented in letter report to BPX Energy prepared by BEI dated December 21, 2018.

Sampling Analytical Results

The initial August, 2005 sample event included field organic meter testing and laboratory TPH analysis via U.S. EPA Method 8015, as required by NMOCD guidelines. Summary results from this were reported as follows:

TABLE 1
Riddle Stockpiles
Summary August 2005 Test Results

| Sample | Number | Field OVM | Laboratory TPH |
|------------------------|------------|--------------------|----------------|
| ID | Composites | (part per million) | (mg/Kg) |
| Pile 1 and Pile 2 | 12 | 6.6 | 67 |
| Pile 3 and Pile 4 | 12 | 2.2 | 72 |
| Pile 5 | 6 | 0.8 | ND |
| Pile 6 | 7 | 1.1 | 11 |
| Pile 7 | 8 | 1.4 | 82 |
| Pile 8 | 6 | 0.4 | 85 |
| NMOCD Closure Standard | | 100 | 100 |

ND = not detected

All piles passed regulatory standards in place at the time of sampling. BEI is not aware if these results were submitted to the regulatory community with a request for closure following this sample event.

The follow-up December, 2018 sample event included field OVM and laboratory testing via U.S. EPA Methods 8015 (TPH), 8021 (BTEX) and 300 (Chlorides) as requested by NMOCD. Summary results were reported as follows:

TABLE 2
Riddle Stockpiles
Summary December 2018 Test Results

| Sample | Volume | Number | Field | Laboratory | Laboratory | Laboratory |
|-------------|---------|------------|-------|------------|------------|------------|
| ID | (CY) | Composites | OVM | BTEX | TPH | Chlorides |
| | | _ | | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| Piles 1A+3B | 500 | 5 | 0.5 | ND | ND | 914 |
| Pile 2A | 500 | 5 | 0.6 | ND | ND | 878 |
| Pile 3A | 500 | 5 | 0.5 | ND | ND | 860 |
| Pile 4A | 500 | 5 | 0.4 | ND | ND | 1,100 |
| Pile 4B | 500 | 5 | 0.6 | ND | ND | 907 |
| Pile 4C | 500 | 5 | 0.5 | ND | ND | 1,040 |
| Pile 5A | 500 | 5 | 0.3 | ND | ND | 1,260 |
| Pile 5B | 500 | 5 | 0.4 | ND | ND | 959 |
| Pile 5C | 500 | 5 | 0.5 | ND | ND | 812 |
| Pile 6A | 500 | 5 | 0.5 | ND | ND | 1,930 |
| Pile 6B | 500 | 5 | 0.6 | ND | ND | 1,250 |
| Pile 6C | 500 | 5 | 0.4 | ND | ND | 1,180 |
| Pile 6D | 500 | 5 | 0.3 | ND | ND | 964 |
| Pile 7A | 500 | 5 | 0.3 | ND | ND | 1,260 |
| Pile 7B | 500 | 5 | 0.4 | ND | ND | 1,480 |
| Pile 7C | 500 | 5 | 0.2 | ND | ND | 1,350 |
| Pile 7D | 500 | 5 | 0.1 | ND | ND | 1,340 |
| Pile 8A | 500 | 5 | 0.1 | ND | ND | 1,000 |
| Pile 8B | 500 | 5 | 0.1 | ND | ND | 1,580 |
| Pile 8C | 500 | 5 | 0.4 | ND | ND | 1,360 |
| NMOCD | Closure | Standard: | NA | 50 | 100 | 600 |

ND = non detect

NA = not applicable

The December, 2018 analytical results indicate that the only constituent exceeding current closure requirements is chloride. All samples failed, with values ranging between 812 – 1,930 mg/Kg. The 600 mg/Kg closure standard only applies to soils within the first 4 feet of ground surface, or any soils within 50 feet of groundwater. Groundwater at the Riddle F LS #1 wellsite is less that 10 feet from ground surface.

Questions or comments with respect to this transmittal may be directed to myself at (505)320-1183. BEI appreciates the opportunity to provide services to BPX.

Respectfully,

Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.

President

Attachments: Site Location Map

effrey C Blagg

Site Figures

August 2005 Sampling Figure and Laboratory Reports December 2018 Sampling Figure and Laboratory Reports

BPX Energy Inc.

(Formerly BP America Production Company)

Riddle F LS 001 - API: 30-045-07407

(L) Sec 17 – T28N – R08W, San Juan County, New Mexico

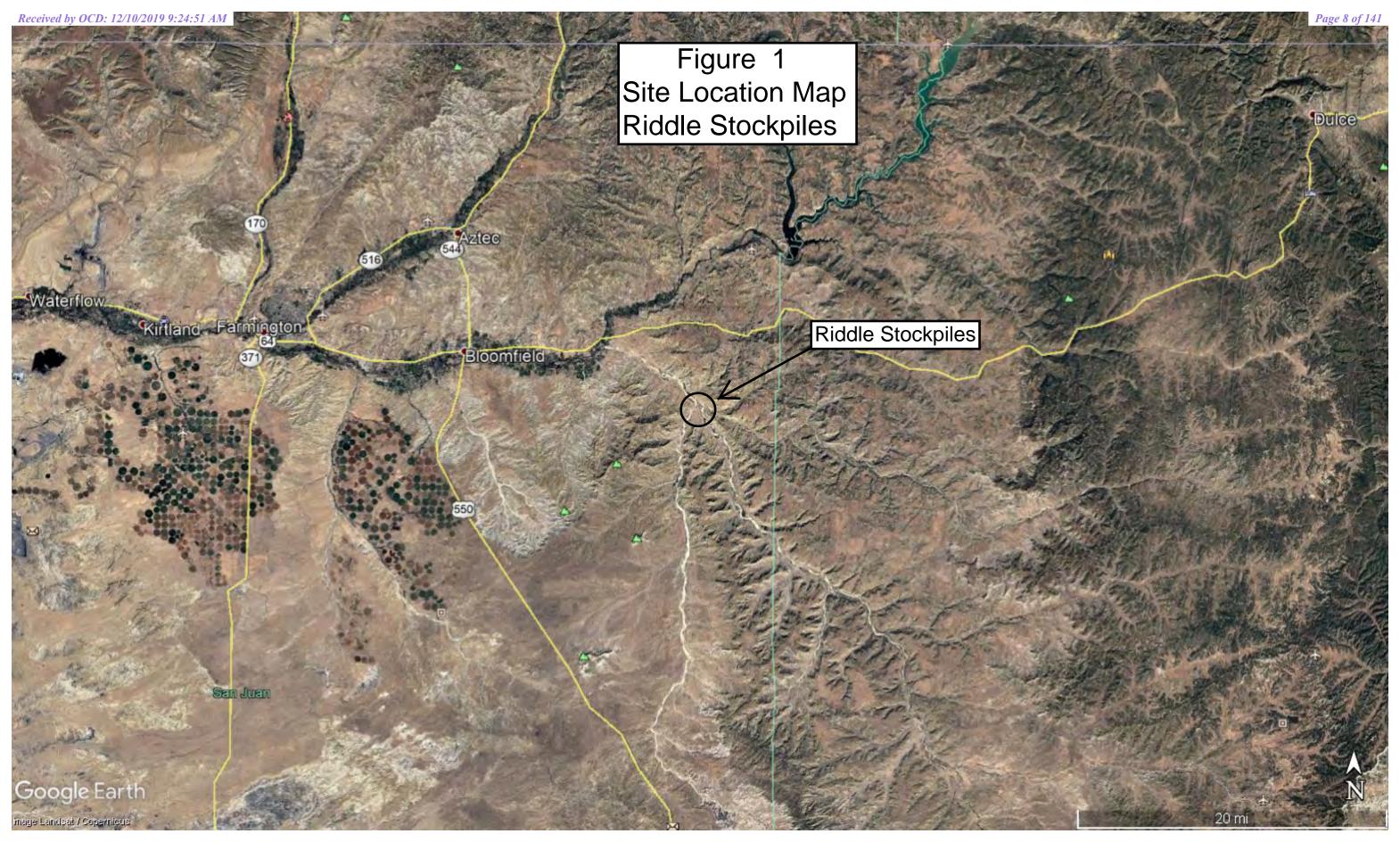
Stockpile Vadose Zone Closure Sampling Test Results

August 29, 2019 & [October 3, 2019 – designated with sample ID ending in (x)]

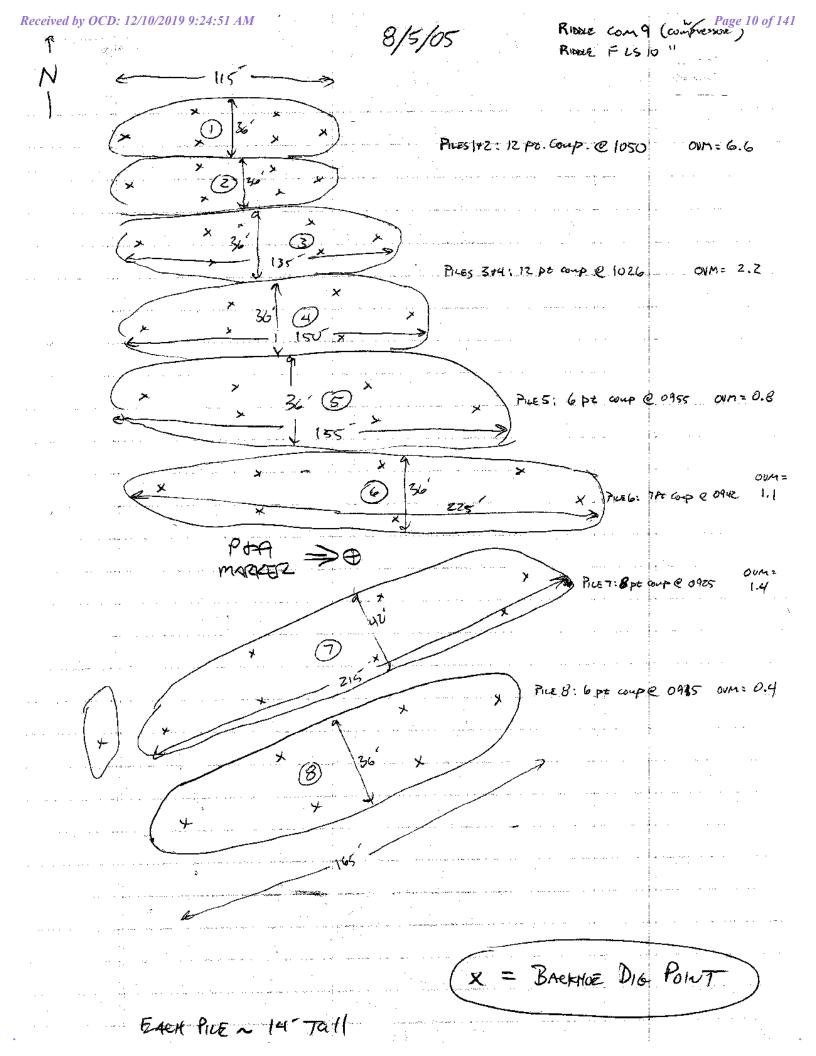
(see attached aerial map for sample ID area designations)

| Sample ID | Time | # Comp. Points | Comp. Depths | Field OVM | Benzene | Total BTEX | TPH GRO | TPH DRO | TPH MRO | Total TPH | Chloride |
|-----------------|------|-------------------|-----------------|--------------|---------|---------------|------------|------------|------------|--------------|----------|
| | | Tomes | (inches) | (ppm) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| SP – VZ #1 | 1036 | 6 | 10-12 | 4.2 | ND | ND | ND | 13 | 88 | 101 | 820 |
| SP – VZ #1 (x) | 1211 | 6 | 18-24 | NA | NA | NA | ND | ND | ND | ND | 360 |
| SP – VZ #2 | 1041 | 7 | 10-12 | 2.5 | ND | ND | ND | ND | ND | ND | 310 |
| SP – VZ #3 | 1045 | 6 | 10-12 | 2.2 | ND | ND | ND | ND | ND | ND | 460 |
| SP – VZ #4 | 1049 | 6 | 10-12 | 4.4 | ND | ND | ND | ND | ND | ND | 870 |
| SP – VZ #4 (x) | 1214 | 6 | 18-24 | NA | NA | NA | NA | NA | NA | NA | 380 |
| SP – VZ #5 | 1052 | 6 | 10-12 | 1.1 | ND | ND | ND | 10 | 84 | 94 | 660 |
| SP – VZ #5 (x) | 1217 | 6 | 18-24 | NA | NA | NA | NA | NA | NA | NA | 260 |
| SP – VZ #6 | 1056 | 6 | 10-12 | 1.5 | ND | ND | ND | ND | ND | ND | 440 |
| SP – VZ #7 | 1058 | 4 | 10-12 | 1.1 | ND | ND | ND | ND | ND | ND | 310 |
| SP – VZ #8 | 1102 | 6 | 10-12 | 2.4 | ND | ND | ND | ND | 55 | 55 | 850 |
| SP – VZ #8 (x) | 1220 | 6 | 18-24 | NA | NA | NA | NA | NA | NA | NA | 300 |
| SP – VZ #9 | 1106 | 6 | 10-12 | 1.2 | ND | ND | ND | ND | 92 | 92 | 780 |
| SP - VZ #9 (x) | 1223 | 6 | 18-24 | NA | NA | NA | NA | NA | NA | NA | 270 |
| SP – VZ #10 | 1110 | 7 | 10-12 | 0.8 | ND | ND | ND | ND | ND | ND | 290 |
| SP – VZ #11 | 1119 | 6 | 10-12 | 0.9 | ND | ND | ND | ND | ND | ND | 520 |
| SP – VZ #12 | 1124 | 6 | 10-12 | 1.4 | ND | ND | ND | ND | 50 | ND | 560 |
| SP – VZ #13 | 1130 | 6 | 10-12 | 0.7 | ND | ND | ND | ND | ND | ND | 450 |
| SP – VZ #14 | 1134 | 6 | 10-12 | 0.8 | ND | ND | ND | ND | 99 | 99 | 610 |
| SP – VZ #14 (x) | 1236 | 6 | 18-24 | NA | NA | NA | NA | NA | NA | NA | 360 |
| SP – VZ #15 | 1141 | 6 | 10-12 | 9.4 | ND | ND | ND | ND | 57 | 63 | 440 |
| SP – VZ #16 | 1146 | 6 | 10-12 | 1.6 | ND | ND | ND | ND | ND | ND | 390 |
| SP – VZ #17 | 1150 | 6 | 10-12 | 1.6 | ND | ND | ND | 13 | 89 | 102 | 720 |
| SP – VZ #17 (x) | 1229 | 6 | 18-24 | NA | NA | NA | ND | ND | ND | ND | 320 |
| | N | MOCD Site | Closure Sta | ındards - | 10 | 50 | | | | 100 | 600 |

Notes: OVM – Organic Vapor Meter, ppm – parts per million, mg/Kg – milligram per kilogram, BTEX – benzene, toluene, ethylbenzene, total xylenes, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, MRO or ORO – Motor Oil Range Organics, NA – Not Analyzed, ND – Not detected at laboratory reporting limit.



Stockpile 2005 Sampling Event Section



| CLIENT: BP | BLAGG | ENGI | NEERIN | IG, INC | | | 781 NITT. | |
|--|-------------------------------------|------------|-----------------------|---------------------------|------------------|-------------------------|-----------------------------|-------------|
| : | P.O. BOX 8 | | | | 413 | LOCATI | | |
| | <u> </u> | (505) | 632-119 | 19 | | €.⊔ | .C. NU: | HALL |
| FIELD REPORT: | LANDFARM | /COMI | POST PI | LE CLOS | SURE | VERI | FICAT | TION |
| LOCATION: NAME: RIDDLE | | | | | | DATE STAR | RTED: SHED: <u>&</u> | -5-05 |
| QUAD/UNIT: SEC: 17 QTR/FDDTAGE: | CONT | | | NTY: 33 SI | <u>:////-</u> | ENVIRONME SPECIALIST | NTAL | c.ß |
| SOIL REMEDIATION: | CON | RACION. | · | | | 3F EGIALIST | | |
| REMEDIATION SYST | | | _ AF | PROX. CU FT DEPTH | BIC Y | ardage NA | 12, | 200 ± |
| | · 1 | | | | | | | |
| FIELD NOTES & REMAR | | | | | | | | |
| DEPTH TO GROUNDWATER: | | | | | | | 4 10 | 000 |
| SOIL TYPE: SAND / SILTY SAI SOIL COLOR: | | | | | | | | |
| COMESION (ALL OTHERS) (NON COMESIVE S | | | | | COHEZIA | νĖ | | |
| PLASTICITY (CLAYS): NON PLA DENSITY (COHESIVE CLAYS & S | | | | | C / HIG | HLY PLASI | ΓIC | |
| MDISTURE: DRY / SLIGHTLY ME | DISD / MOIST / WE. | r / SATUR | ATED / SUPER | R SATURATED | | - 1 | | |
| DISCOLORATION/STAINING DBSE HC ODDR DETECTED: YES / NO | RVED: (YES)/ NO D) EXPLANATION - | EXPLANAT | ION - OCCA OF MANU | Sional Dark VLE) | BAND | in Pile | | |
| · | | | | | | | | |
| SAMPLING DEPTHS (LANDFARMS) SAMPLE TYPE: GRAB / COMPE ADDITIONAL COMMENTS: | <u> 12(11-) - # UF PTS</u> | | 1SE BARKH | of to R | ANDONE | r Di6 | TO C | ENTER |
| | טוד באנת הן | ما اها سال | vei cev-pos | THES ANDW | Test | holos. | | |
| SAMP TIME SA | MPLE I.D. LAB No: | | (a) ml FRE | · | READIN | G CALC F | nm. | |
| JAIMI . TIME JA | WITCE T.D. EAD ITO. | 11210111 | (9) 1110. 1110 | .011 012011011 | KEKBIII | 0 0/120. p | 7,5111 | |
| | | | | | | | | |
| SKETCH/SAMPL | F LOCATIONS | | | | | _1 | | |
| SKETCH/ SAMI L | E ECCATIONS | | I | CALIB, READ,≦ | , | • | | |
| SEE ATTACHED DIA | 6pam | | | CALIB. GAS = 1100 @ | | | | |
| : | | | OVM R | | | LAB SA | | ?' C |
| : : : ! | | | | FIELD HEADSPACE PID (ppm) | SAMPLE | ANALYSIS | TIME TIT | RESULTS |
| | | PILES | 12/12 PE. | 6.6 | <u>10</u> {+2 | TPi | 1050 | 67 |
| | | Pices 3 | 7 | 2.2 | 3+4 | 13 | 1026 | 72 |
| | | PILES | 6 Pt | 0.8 | 5 | 14 | 0955 | ND |
| ! ! | | PILE 6 | 7 Pt | 1.1 - | 6 | 11 | 0942 | 11 |
| | | PILE 7 | 8 Pt | 1.4 | • 7 | f! | 0925 | 82 |
| | | PILEB | 6 PE | 0.4 | 8 | <u> </u> | 0915 | 85 |
| | | | | | | METHOD | | |
| | | | SCALE | , - | | 8015B | | |
| | | | 0 |] FT | | - - , - | | |
| TRAVEL NOTES: CALLOUT | | | ONSITE: | 8/5/05 | | | | |
| revised: 07/16/01 | | | | | | | be | i1006A.sk |

man Environmental Analysis Laboratory

CLIENT:

Blagg Engineering

Lab Order:

0508074

Project: Lab ID:

Riddle Lease

0508074-01

Client Sample ID: Piles 1 & 2

Collection Date: 8/5/2005 10:50:00 AM

Date: 15-Aug-05

Matrix: SOIL

| Result | PQL Q | ual Units | DF | Date Analyzed |
|----------|------------------------|---|---|--|
| ORGANICS | | | | Analyst: SCC |
| 16 | 10 | mg/Kg | 1 | 8/11/2005 1:40:39 PM |
| <u> </u> | 50 | mg/Kg | 1 | 8/11/2005 1:40:39 PM |
| 107 | 60-124 | %REC | 1 | 8/11/2005 1:40:39 PM |
| NGE | | | | Analyst: NSB |
| ND | 5.0 | mg/Kg | 1 | 8/10/2005 5:51:06 PM |
| 99.2 | 83.1-124 | %REC | 1 | - 8/10/2005 5:51:06 PM |
| | 16 51 107 NGE | F ORGANICS 16 10 51 50 107 60-124 NGE NO 5.0 | E ORGANICS 16 10 mg/Kg 50 mg/Kg 107 60-124 %REC NGE ND 5.0 mg/Kg | E ORGANICS 16 10 mg/Kg 1 51 50 mg/Kg 1 107 60-124 %REC 1 NGE ND 5.0 mg/Kg 1 |

16 ppm

B - Analyte detected in the associated Method Blank

^{* -} Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Received by OCD: 12/10/2019 9:24:51 AM

man Environmental Analysis Laboratory

Page 13 of 141

CLIENT:

Blagg Engineering

Lab Order:

0508074

Project: Lab ID: Riddle Lease

Middle Lease

0

0508074-02

Client Sample ID: Piles 3 & 4

_

Collection Date: 8/5/2005 10:26:00 AM

Date: 15-Aug-05

Matrix: SOIL

| Analyses | Result | PQL (| Qual Units | DF | Date Analyzed |
|--------------------------------|------------------|----------|------------|----|----------------------|
| EPA METHOD 8015B: DIESEL RANG | E ORGANICS | | | | Analyst: SCC |
| Diesel Range Organics (DRO) | 19 | 10 | mg/Kg | 1 | 8/11/2005 3:20:27 PM |
| Motor Oil Range Organics (MRO) | 53_ _ | 50 | mg/Kg | 1 | 8/11/2005 3:20:27 PM |
| Surr: DNOP | 108 | 60-124 | %REC | 1 | 8/11/2005 3:20:27 PM |
| EPA METHOD 8015B: GASOLINE RA | ANGE | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | GN | 5.0 | mg/Kg | 1 | 8/10/2005 6:23:14 PM |
| Surr; BFB | 102 | 83.1-124 | %REC | 1 | 8/10/2005 6:23:14 PM |

19 ppm

- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

.........

Hall Environmental Analysis Laboratory

CLIENT: Lab Order: Blagg Engineering

0

0508074

Project:

Riddle Lease

Lab ID:

0508074-03

Client Sample ID: Pile 5

iche Sample xv. The J

Collection Date: 8/5/2005 9:55:00 AM

Date: 15-Aug-05

Matrix: SOLL

| Danula | | | | |
|----------|------------------------------|---|--|--|
| Result | PQL Q | ual Units | DF | Date Analyzed |
| ORGANICS | | | | Analyst: SCC |
| ND | 10 | mg/Kg | 1 | 8/11/2005 3:53:52 PM |
| ND* | 50 | mg/Kg | 1 | 8/11/2005 3:53:52 PM |
| 111 | 60-124 | %REC | 1 | 8/11/2005 3:53:52 PM |
| NGE | | | | Analyst: NSB |
| ND | 5.0 | mg/Kg | 1 | 8/10/2005 6:55:22 PM |
| 100 | 83.1-124 | %REC | 1 | 8/10/2005 6:55:22 PM |
| | ND NB 111 NGE ND | ORGANICS ND 10 ND 50 111 60-124 NGE ND 5.0 | E ORGANICS ND 10 mg/Kg ND 50 mg/Kg 111 60-124 %REC NGE ND 5.0 mg/Kg | E ORGANICS ND 10 mg/Kg 1 ND 50 mg/Kg 1 111 60-124 %REC 1 NGE ND 5.0 mg/Kg 1 |

ND ppm

B - Analyte detected in the associated Method Blank

^{* -} Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Hall Environmental Analysis Laboratory

CLIENT:

Blagg Engineering

Client Sample ID: Pile 6

Lab Order:

0508074

Project:

Riddle Lease

Lab ID:

0508074-04

Matrix: SOil.

Date: 15-Aug-05

Collection Date: 8/5/2005 9:42:00 AM

| Analyses | Result | PQL Qua | d Units | DF | Date Analyzed |
|--|-------------------|-----------------|---------------|--------|---|
| EPA METHOD 8015B: DIESEL RANGI | E ORGANICS | | | | Analyst: SCC |
| Diesel Range Organics (DRO) | 11 | 10 | mg/Kg | 1 | 8/11/2005 4:27:15 PM |
| Motor Oil Range Organics (MRO) | NÐ | 50 | mg/Kg | 1 | 8/11/2005 4:27:15 PM |
| Surr: DNOP | 110 | 60-124 | %REC | 1 | 8/11/2005 4:27:15 PM |
| EPA METHOD 8015B: GASOLINE RAI Gasoline Range Organics (GRO) Surr: BFB | NGE ND 99.2 | 5.0 83.1-124 | mg/Kg %REC | 1 1 | Analyst: NSB 8/10/2005 7:27:23 PM 8/10/2005 7:27:23 PM |

11 ppm

B - Analyte detected in the associated Method Blank

^{* -} Value exceeds Maximum Contaminant Level

R - RPD outside accepted recovery limits

E - Value above quantitation range

Hall Environmental Analysis Laboratory

CLIENT:

Blagg Engineering

Client Sample ID: Pile 7

Lab Order:

0508074

0300074

Project: Lab ID: Riddle Lease

0508074-05

Collection Date: 8/5/2005 9:25:00 AM

Date: 15-Aug-05

_.....

Matrix: SOIL

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed |
|---------------------------------|-------------|----------|------------|----|----------------------|
| EPA METHOD 8015B; DIESEL RANG | GE ORGANICS | | | | Analyst: SCC |
| Diesel Range Organics (DRO) | 24 | 10 | mg/Kg | 1 | 8/11/2005 5:00:35 PM |
| Metor Oil Range: Organics (MRO) | 58- | 50 | mg/Kg | 1 | 8/11/2005 5:00:35 PM |
| Surr: DNOP | 110 | 60-124 | %REC | 1 | 8/11/2005 5:00:35 PM |
| EPA METHOD 8015B: GASOLINE RA | ANGE | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 8/10/2005 8:31:14 PM |
| Surr: BFB | 100 | 83.1-124 | %REC | 1 | 8/10/2005 8:31:14 PM |

24 ppm

- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

Hall Environmental Analysis Laboratory

CLIENT:

Blagg Engineering

Lab Order: Project:

0508074

Riddle Lease

Lab ID:

0508074-06

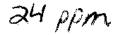
Client Sample ID: Pile 8

Collection Date: 8/5/2005 9:15:00 AM

Date: 15-Aug-05

Matrix: SOIL

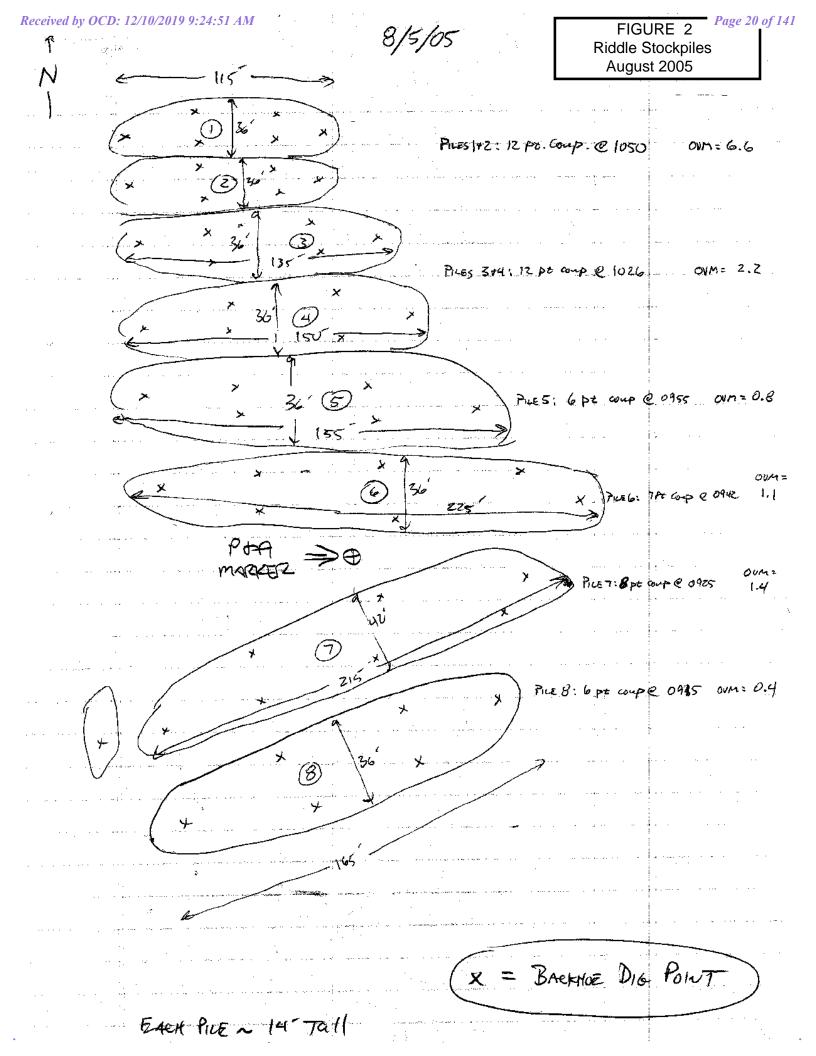
| Analyses | Result | PQL Q | uai Units | DF | Date Analyzed |
|--------------------------------|-------------|----------|-----------|----|----------------------|
| EPA METHOD 8015B: DIESEL RANG | GE ORGANICS | | | | Analyst: SCC |
| Diesel Range Organics (DRO) | 24 | 10 | mg/Kg | 1 | 8/11/2005 5:33:57 PM |
| Motor Oit Range Organies (MRO) | 61 | 50 | mg/Kg | 1 | 8/11/2005 5:33:57 PM |
| Sur: DNOP | 107 | 60-124 | %REC | 1 | 8/11/2005 5:33:57 PM |
| EPA METHOD 8015B: GASOLINE R. | ANGE | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 8/10/2005 9:02:42 PM |
| Surr: BFB | 94.2 | 83.1-124 | %REC | 1 | 8/10/2005 9:02:42 PM |
| | | | | | |



- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

| Client: Z | SLA66 | ENGN | ODY RECORD | Other:Project Name: | IELAC (| <u></u> | USACE | | | | | | | A 4! A Te | 1 NA 901 bugi el. 50 | LY Haw Jerqi (5.3 | SIS kins ue, N 45.3 | NE, lew l 975 | Suit Mexi | DFA ce D co 8: ax 50 | NTA XTO 7109 05.34 | RY) | 107 | |
|----------------------------|------------|--------------|--|--------------------------|--------------|--------------|----------------|------------|-------------|-----------------------|-------------------------------|--------------------|--------------------|---------------------------|---------------------------------------|-----------------------------------|--|--------------------------------|--------------|-------------------------------|---|---------|-----------|-----------------------------------|
| Address: | P.o. | Zox 8 | 9フ | Project #: | | | | | | | | | | Al | VAL | YS | S | ΙĒ | UE | ST | | | | |
| | | | 27 0, NM 87413 | Project Manager | | , , c.A.G | E 63 | | 's (8021) | + TPH (Gasoline Only) | as/Diesel) | | | | | | PO4, SO ₄) | s (8082) | | | | | | ce (Y or N) |
| Phone #: Fax #: | (505) | 032 | 2-1199 | Sampler: Sample Temperat | 4/ 7 ure: | 34° | 5 7 | | BE + TMB's | R + TPH | 18015B (C | d 418.1) | d 504.1) | id 8021) | or PAH) | sle | , NO ₃ , NO ₂ , | ides / PCB | 2 | -VDA) | | | | Невасьра |
| Date | Time | Matrix | Sample I.D. No. | Number/Volume | | reservati | ive | HEAL No. | BTEX + MTBE | BTEX + MTBE | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | EDC (Method 8021) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions (F, Cf, NO ₃ , NO ₂ , PO ₄ , SO ₄) | 8081 Pesticides / PCB's (8082) | 8260B (VOA) | 8270 (Semi-VOA) | | | | Air Bubbles or Headspace (Y or N) |
| 3-5-05 | 1050 | Soil | PILES 1+Z | 1-400 | | | | 508074-1 | | | X | | | | | | | | | | | | | |
| 11 | 1026 | | PILES 3+4 | .t į | | | | - Z | | | × | | | | | | | | | | | | \exists | |
| ti. | 0955 | n | PILE 5 | į (| | | | -3 | | | X | | | | | | | | | | | | | |
| i(| 0942 | 11 | PILE 6 | ė, | | | | -4 | | | X | | | | | | · | | | | | | | |
| ų | 0925 | ફ દ | PILE 7 | 14 | | | | -5 | | | X | | | | | | | | | | | | | |
| | 0915 | ₹ (| P14E 8 | 11 | | | | 6 | | | X | | | | | | | ···- | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | <u>.</u> | | | \dashv | |
| Doto | Times | Dalin quiete | d D. (Circoture) | I Desired | | | 3 | | | | | | | | | | | | | | | | | |
| Date: 19/9/05— Date: | Time: 0725 | Retinquishe | ed By: (Signature) G G By: (Signature) | Received Received | | | | 818/05 | Rem | narks: | | | | | | | | | | | | | | |

Stockpile 2018 Sampling Event Section









Project Name:

Riddle Piles

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager: 03143-0424 Steve Moskal **Reported:** 12/20/18 15:09

Pile 1A + 3B P812035-01 (Solid)

| | | Reporting | 00 01 (50 |) | | | | | |
|---|--------|-----------|-----------|----------|---------|----------|----------|--------------------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 99.5 % | 50- | -150 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 93.8 % | 50- | -150 | 1851003 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 93.7 % | 50- | -200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 914 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/19/18 | EPA 300.0/9056A | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Riddle Piles

PO Box 22024

Project Number:

03143-0424

Reported:

Tulsa OK, 74121-2024 Project Manager: Steve Moskal

12/20/18 15:09

Pile 2A P812035-02 (Solid)

| | | Reporting | | | | | | | |
|---|--------|-----------|-------|----------|---------|----------|----------|--------------------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 100 % | 50-1 | 50 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 95.7 % | 50-1 | 50 | 1851003 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 90.9 % | 50-2 | 200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 878 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/19/18 | EPA 300.0/9056A | |

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Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Riddle Piles

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 12/20/18 15:09

Pile 3A P812035-03 (Solid)

| | | 10120 | 33-03 (30) | iiu) | | | | | |
|---|--------|-----------|------------|----------|---------|----------|----------|--------------------|-------|
| | | Reporting | · | · | | · | | | |
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 99.9 % | 50- | 150 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 94.6 % | 50- | 150 | 1851003 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 91.6 % | 50- | 200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 860 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/19/18 | EPA 300.0/9056A | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Riddle Piles

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager: 03143-0424 Steve Moskal **Reported:** 12/20/18 15:09

Pile 4B P812035-04 (Solid)

| | | 10120 | 33-04 (301 | iu) | | | | | |
|---|--------|-----------|------------|----------|---------|----------|----------|--------------------|-------|
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 99.3 % | 50-1 | 50 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 97.9 % | 50-1 | 50 | 1851003 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 92.6 % | 50-2 | 00 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 907 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/19/18 | EPA 300.0/9056A | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Riddle Piles

PO Box 22024

Project Number:

03143-0424

Reported:

Tulsa OK, 74121-2024

Project Manager: Steve Moskal

12/20/18 15:09

Pile 4C P812035-05 (Solid)

| | | 10120 | 33-03 (30 | muj | | | | | |
|---|--------|-----------|-----------|----------|---------|----------|----------|--------------------|-------|
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 100 % | 50 | -150 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 93.4 % | 50 | -150 | 1851003 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 91.6 % | 50 | -200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 1040 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/19/18 | EPA 300.0/9056A | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Riddle Piles

PO Box 22024 Tulsa OK, 74121-2024 Project Number:

03143-0424

Reported: 12/20/18 15:09

1-2024

Project Manager: Steve Moskal

Pile 4A P812035-06 (Solid)

| | | Reporting | | | | | | | |
|---|--------|-----------|-------|----------|---------|----------|----------|--------------------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 99.5 % | 50-1 | 150 | 1851003 | 12/17/18 | 12/18/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 95.7 % | 50-1 | 150 | 1851003 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 90.5 % | 50-2 | 200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 1100 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/19/18 | EPA 300.0/9056A | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Riddle Piles

PO Box 22024

Project Number:

03143-0424

Reported:

Tulsa OK, 74121-2024

Project Manager: Steve Moskal

12/20/18 15:09

Pile 5B P812035-07 (Solid)

| | | Reporting | - | | | | | | |
|---|--------|-----------|-------|----------|---------|----------|----------|--------------------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 98.1 % | 50- | 150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 96.9 % | 50- | 150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 93.3 % | 50- | 200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 959 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/19/18 | EPA 300.0/9056A | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Riddle Piles

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 12/20/18 15:09

Pile 5C P812035-08 (Solid)

| | | 10120 | 33-00 (30 | iiu) | | | | | |
|---|--------|-----------|-----------|----------|---------|----------|----------|--------------------|-------|
| | | Reporting | · | · | | | | | |
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 97.6 % | 50- | 150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 95.5 % | 50- | 150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 90.7 % | 50- | 200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 812 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/19/18 | EPA 300.0/9056A | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



BP America Production Co. PO Box 22024

Tulsa OK, 74121-2024

Project Name:

Project Manager:

Riddle Piles

Project Number:

03143-0424 Steve Moskal **Reported:** 12/20/18 15:09

Pile 5A P812035-09 (Solid)

| | | Reporting | 02 07 (80 | / | | | | | |
|---|--------|-----------|-----------|----------|---------|----------|----------|--------------------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 98.2 % | 50- | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 96.2 % | 50- | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 91.1 % | 50- | -200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 1260 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/19/18 | EPA 300.0/9056A | |

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Ph (505) 632-0615 Fx (505) 632-1865



BP America Production Co. PO Box 22024

Tulsa OK, 74121-2024

Project Name:

Riddle Piles

Project Number: Project Manager: 03143-0424 Steve Moskal

Reported: 12/20/18 15:09

Pile 6B

P812035-10 (Solid)

| | | Reporting | 20 10 (50 |) | | | | | |
|---|--------|-----------|-----------|----------|---------|----------|----------|--------------------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 98.1 % | 50- | 150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 96.2 % | 50- | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 91.7 % | 50- | -200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 1250 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/19/18 | EPA 300.0/9056A | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Riddle Piles

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal Reported: 12/20/18 15:09

Pile 6A P812035-11 (Solid)

| | | | 00 11 (50 |) | | | | | |
|---|--------|-----------|-----------|----------|---------|----------|----------|--------------------|-------|
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 98.2 % | 50- | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 95.7 % | 50- | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 90.6 % | 50- | -200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 1930 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/19/18 | EPA 300.0/9056A | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



BP America Production Co. PO Box 22024 Project Name:

Riddle Piles

Tulsa OK, 74121-2024

Project Number: Project Manager: 03143-0424 Steve Moskal **Reported:** 12/20/18 15:09

Pile 6C P812035-12 (Solid)

| | | Reporting | | | | | | | |
|---|--------|-----------|-------|----------|---------|----------|----------|--------------------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 97.7 % | 50- | 150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 96.0 % | 50- | 150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 91.3 % | 50- | 200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 1180 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/19/18 | EPA 300.0/9056A | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Riddle Piles

PO Box 22024 Tulsa OK, 74121-2024 Project Number:

03143-0424

Reported:

Project Manager:

Steve Moskal

12/20/18 15:09

Pile 6D P812035-13 (Solid)

| | | Reporting | 00 10 (8) | · ··/ | | | | | |
|---|--------|-----------|-----------|----------|---------|----------|----------|--------------------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 97.5 % | 50 | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 94.6 % | 50 | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 90.8 % | 50 | -200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 964 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/20/18 | EPA 300.0/9056A | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Riddle Piles

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager: 03143-0424 Steve Moskal **Reported:** 12/20/18 15:09

Pile 7A P812035-14 (Solid)

| | | | 33-14 (50 | nu) | | | | | |
|---|--------|-----------|-----------|----------|---------|----------|----------|--------------------|-------|
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 97.5 % | 50- | 150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 95.8 % | 50- | 150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 92.0 % | 50- | 200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 1260 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/20/18 | EPA 300.0/9056A | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Riddle Piles

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager: 03143-0424 Steve Moskal **Reported:** 12/20/18 15:09

Pile 7B P812035-15 (Solid)

| | | | 33-13 (50 | | | | | | |
|---|--------|-----------|-----------|----------|---------|----------|----------|--------------------|-------|
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 97.6 % | 50- | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 95.5 % | 50- | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 89.8 % | 50- | -200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 1480 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/20/18 | EPA 300.0/9056A | |

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BP America Production Co. PO Box 22024

Tulsa OK, 74121-2024

Project Name:

Project Manager:

Riddle Piles

Project Number:

03143-0424 Steve Moskal **Reported:** 12/20/18 15:09

Pile 7C P812035-16 (Solid)

| | | | 22 10 (50 |) | | | | | |
|---|--------|-----------|-----------|----------|---------|----------|----------|--------------------|-------|
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 98.0 % | 50- | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 95.9 % | 50- | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 90.4 % | 50- | -200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 1350 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/20/18 | EPA 300.0/9056A | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



BP America Production Co. PO Box 22024 Project Name:

Riddle Piles

Tulsa OK, 74121-2024

Project Number: Project Manager: 03143-0424 Steve Moskal **Reported:** 12/20/18 15:09

Pile 7D P812035-17 (Solid)

| | | | 33-17 (50 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | |
|---|--------|-----------|-----------|--|---------|----------|----------|--------------------|-------|
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 97.5 % | 50- | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 95.6 % | 50- | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 88.4 % | 50- | -200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 1340 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/20/18 | EPA 300.0/9056A | |

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Project Name:

Riddle Piles

PO Box 22024

Project Number:

03143-0424

Reported: 12/20/18 15:09

Tulsa OK, 74121-2024

Project Manager: Steve Moskal

Pile 8A P812035-18 (Solid)

| | | Reporting | 00 10 (50 | | | | | | |
|---|-------------|-----------|-----------|----------|---------|----------|----------|--------------------|-------|
| | D 1: | | *** | 75.77 | D . I | | | | N |
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 97.4 % | 50- | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 96.2 % | 50- | -150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 89.0 % | 50- | -200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 1000 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/20/18 | EPA 300.0/9056A | |

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Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879



Project Name:

Riddle Piles

PO Box 22024

Project Number:

03143-0424

Reported: 12/20/18 15:09

Tulsa OK, 74121-2024

Project Manager: Steve Moskal

12/20/

Pile 8B P812035-19 (Solid)

| | | Reporting | | | | | | | |
|---|--------|-----------|-------|----------|---------|----------|----------|--------------------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 96.5 % | 50- | 150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 98.7 % | 50 | 150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 90.4 % | 50-2 | 200 | 1851005 | 12/17/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 1580 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/20/18 | EPA 300.0/9056A | |

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Project Name:

Riddle Piles

PO Box 22024 Tulsa OK, 74121-2024

Project Number: 03143-0424 Project Manager: Steve Moskal **Reported:** 12/20/18 15:09

Pile 8C P812035-20 (Solid)

| | | 1 0120 | 33-20 (30) | iiu) | | | | | |
|---|--------|-----------|------------|----------|---------|----------|----------|--------------------|-------|
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Volatile Organics by EPA 8021 | | | | | | | | | |
| Benzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Toluene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Ethylbenzene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| p,m-Xylene | ND | 200 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| o-Xylene | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total Xylenes | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Total BTEX | ND | 100 | ug/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Surrogate: 4-Bromochlorobenzene-PID | | 97.9 % | 50- | 150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 1851014 | 12/18/18 | 12/18/18 | EPA 8015D | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | mg/kg | 1 | 1851014 | 12/18/18 | 12/18/18 | EPA 8015D | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 95.8 % | 50- | 150 | 1851003 | 12/17/18 | 12/19/18 | EPA 8015D | |
| Surrogate: n-Nonane | | 90.9 % | 50- | 200 | 1851014 | 12/18/18 | 12/18/18 | EPA 8015D | |
| Anions by 300.0/9056A | | | | | | | | | |
| Chloride | 1360 | 20.0 | mg/kg | 1 | 1851020 | 12/19/18 | 12/20/18 | EPA 300.0/9056A | |

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Page 22 of 30

| ed by OC. Project I | D: 12/10/ intormati | <i>2019 9:2</i> ion | 4:51 AM | | | | Chain of Cu | ıstody | | | | | | | | | | | P | age [| <i>age 43 o</i> of _ |
|------------------------|-------------------------------|------------------------|------------------|----------------|-------------|-------------------------------|-----------------------------|-----------------|----------|----------|--------------|-------------|----------|----------------|---------|-----|----------|--------|-----|----------------------------------|-------------------------|
| Client: | BPX | ENERGY | | | | Rep | ort Attention | | Ť Ť | | La | b Us | e Or | ılv | | | TAT | Т | | PA Progr | |
| Project: | RIDDL | E PIL | ES. | | | Report due by: | STANDARD T. | | Lab | WO | # | | Job | Nun | nber | | 1D 30 | R | CRA | CWA | SDW |
| Project I | Manager | : STEV | E Mos | KAL | | Attention: 5+e | ve Maskal/Je | ff Bley | P8 | 12 | 035 | 5 | 031 | 43- | .04. | lu | | + | | | 1 |
| <u>Address</u> | • | | | | | Address: | | 1 | | - | | | | | nd Me | | <u></u> | | | St | ate |
| City, Sta | te, Zip | | | | | City, State, Zip | | 1 | [5 | 5 | | | | | ГТ | | | Т | T | NM CO | |
| | 505- | | | | _ | Phone: | 505-32 | 0-1193 | , 8015 | , 8015 | 1 | | | o. | | | | | 1 | | |
| Email: | STEVEN. | MOSKal | @ BPX | . COM | | Email: | jeffcblogg | e Apl. wi | o by | O by | 802 | 3260 | 6010 | 300 | + | | | | 1 | X | |
| Time Sampled | Date Sampled | Matrix | No Containers | Sample ID | | | 0 33 | Lab Number | % | GRO/DRO | BTEX by 8021 | VOC by 8260 | Metals 6 | Chloride 300.0 | TPH 418 | | | | | Ren | narks |
| 0847 | 12/4/2018 | SOIL | 1 | PILE | 1/ | 4 + 3B | | 1 | X | | | | | X | | | | | | | |
| 0705 | 3 | | | | | z.A | | 2 | | | | | | | | | | | | | |
| 0921 | | | | | | 3 A | | 3 | | | | | | | | | | | | | |
| 6937 | | | | | L | 4 B | | 4 | | | | | | | | | | | | | |
| 0946 | | | | | | 4 C | | 5 | | | | | | | | | | | | | |
| 0958 | | | | | L | 1A | | 6 | | | | | | | | | | | | | |
| 1013 | | | | | S | 5B | | 7 | | | | | | | | | | | | | |
| 1931 | | | | | | ; c | | 8 | | | | | | | | | | | | | |
| 1043 | | | | | 5 | ·A | | 9 | | | | | | | | | | | | | |
| 1055 | | | | | 6 | B | | W | | | + | | · | | | 7 | | | | | |
| Addition | al Instru | ctions: | BILL BI | ex being Ge | nevate | l | V | is ice | | <u> </u> | - 2909 | 10 | r | | | | | | | | |
| | | | d authenticity | | I am aware | e that tampering with or inte | entionally mislabelling the | sample location | , date o | r | _ | : | Samples | | | | | | | the day they ar on subsequent | |
| Relinguish | ed by: (Sigi | nature) | Date 12/ | 14/2018 | ime 1412 | Received by: (S | ignature) | Date | | Time | 15 | | Rece | ived | on id | ٠٠. | Lab U | | nly | | |
| Relinquish | ed by: (Sigi | nature) | Date | | ime | Received by: (Si | gnature) | Date | _ | Time | <u>, , ,</u> | | T1 | | p °C | _ 1 | Γ2 0 | 14 | | T3 | |
| Sample Mat | rix: S - Soil, : | Sd - Solid, Sg | g - Sludge, A | - Aqueous, O | - Other | | | Container | Tvpe | e: g - 1 | glass | | | | | | ber glas | s. v - | VOA | | |
| | | | | | | other arrangements are | made. Hazardous sam | | | | | | | | | | | | | analysis of t | he above |
| | | • | | | | with this COC. The liab | | | | | | | | | | | | | | - | |

Page 29 of 30

| ved by OCD: 12/1 Project Inform | 0/2019 9:2 ation | 4:51 AM | | | Chain of | Custody | | | | | | | | | | | Р | age Z | age 44 o of _ |
|---|---------------------|------------------|--------------|------------------|--|----------------------|----------|------------|--------------|-------------|-------------|----------------|----------|-------|---------|--------|-------------|-----------------|------------------|
| Client: BPX | ENERGY | | | | Report Attention | 1 | | | La | b U | se O | nly | | | TA | T | | PA Progr | |
| Project: RID | | | | <u> R</u> | eport due by: | | Lab | WO | | | Job | Nun | nber | | 1D | 3D | RCRA | CWA | SDW |
| Project Manag | er: Steve | Mosk | <u>/</u> | A | ttention: | | P 8 | 3120 | 35 | | 03 | 143 | -04 | 24 | | | , | | |
| Address: | | | | A | ddress: | | | | | | | | nd M | | | | | St | ate |
| City, State, Zip | | | | <u> Ci</u> | ty, State, Zip | | 5. | 5 | | | | | | | | | 1 | NM CO | UTA |
| Phone: | | | | 만 | none: | | , 8015 | 8015 | | _ | | ا و | 1 | | | | | | |
| Email: | | | | Er | mail: | | O by | o p | 802 | 3260 | 010 | & | ᅤ | | | | | X | |
| Time Date Sampled Sample | I Matrix | No Containers | Sample I | ID | | Lab Number | DRO/ORO | GRO/DRO by | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | TPH 418. | | | | | Ren | narks |
| | 135012 | 1 | PIL | E 6 | ,A | U | X | X | X | | | X | | | | | | | |
| 1127 1105 nu | | | | 6 | C | 12 | | | | | | İ | | | | | | | |
| 1124 mr | | | | 6 | d. | 13 | | | | | | | | | | | | | |
| 1158 | | | | - | 7A | 14 | | | | | | | | | | | | | |
| 1210 | | | | | 18 | 15 | | | | | | | | | | | 1.8 | | |
| 1221 | | | | 7 | C | 16 | | | | | | | | | | | | | |
| 1233 | | | | 7 | D | 17 | | | | | | | | | | | | | |
| 1300 | | | | 8 | A | 18 | | | | | | | | | | | | | |
| 13/0 | | | | 8 | 6 | 19 | | | | | | | | Ì | | | | | |
| 1321 | | 1 | ` | . 8 | · C | 20 | 1 | | | - | | | | | | | | | |
| Additional Inst | ructions: | | | - | | Vic | | ì |) | | | مادرو | | | | | · <u> </u> | | |
| l, (field sampler), attest time of collection is cor | | | | | t tampering with or intentionally mislabelling | the sample location, | , date o | r | | | | | | | | | | the day they ar | - |
| Relinquished by: (| | Date | ss for regar | Time | Received by: (Signature) | Date | Ī | Time | | | | | | | Lab | Llco | Only | 1000 | |
| 11 1 Be. | 1 | 12/ | 14/2010 | 1415 | M | 10 416 /1 | // | 1. 1 . | | | Door | airea - | 100: | | | 2/ N | • | | |
| Relinguished by: (| Signature) | Date | y wis | Time | Received by: (Signature) | Date | 0 | Time | > | \dashv | T1 | eivec | l on i | | T2 | / IN | | T3 | |
| <u>/</u> | | | | | | | | | | _ | AVG | Ten | np °C | | 10 | | | | |
| Sample Matrix: S - So | | | | | | Container | | | | | | | | | | | | | |
| Note: Samples are di | scarded 30 da | vs after resu | ts are repo | rted unless othe | r arrangements are made. Hazardous | samples will be ret | turned | to clie | ent or | dispo | sed of | at the | client | exper | nse. Th | ne rep | ort for the | analysis of | the above |

Iboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report. envirotech **Analytical Laboratory**

Page

5796 US Highway 64, Farmington, ILM 87401

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Ph (970) 259-0615 Fr (800) 362-1879



Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number:

Samples Received: 12/14/2018 2:15:00PM

Job Number: 03143-0424 Work Order: P812035

Project Name/Location: Riddle Piles

| Report | Reviewed | By: |
|--------|----------|-----|
|--------|----------|-----|

Walter Hindren

Date:

12/20/18

Walter Hinchman, Laboratory Director

Tim Cain, Project Manager

Date:

12/20/18



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

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

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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

5796 US Highway 64, Farmington, NM 87401

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BP America Production Co. Project Name: Riddle Piles
PO Box 22024 Project Number: 03143-0424
Tulsa OK, 74121-2024 Project Manager: Steve Moskal

Reported: 12/20/18 15:09

Analyical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| Pile 1A + 3B | P812035-01A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 2A | P812035-02A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 3A | P812035-03A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 4B | P812035-04A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 4C | P812035-05A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 4A | P812035-06A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 5B | P812035-07A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 5C | P812035-08A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 5A | P812035-09A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 6B | P812035-10A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 6A | P812035-11A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 6C | P812035-12A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 6D | P812035-13A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 7A | P812035-14A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 7B | P812035-15A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 7C | P812035-16A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 7D | P812035-17A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 8A | P812035-18A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 8B | P812035-19A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| Pile 8C | P812035-20A | Soil | 12/14/18 | 12/14/18 | Glass Jar, 4 oz. |
| | | | | | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



BP America Production Co. PO Box 22024 Project Name:

Riddle Piles

Tulsa OK, 74121-2024

Project Number: Project Manager: 03143-0424 Steve Moskal **Reported:** 12/20/18 15:09

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--|--------|---------------|-------|-------------|---------------------|-------------|------------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 1851003 - Purge and Trap EPA 5030A | | | | | | | | | | |
| Blank (1851003-BLK1) | | | | Prepared: 1 | 12/17/18 1 A | Analyzed: 1 | 12/18/18 1 | | | |
| Benzene | ND | 100 | ug/kg | | | | | | | |
| Toluene | ND | 100 | " | | | | | | | |
| Ethylbenzene | ND | 100 | " | | | | | | | |
| p,m-Xylene | ND | 200 | " | | | | | | | |
| o-Xylene | ND | 100 | " | | | | | | | |
| Total Xylenes | ND | 100 | " | | | | | | | |
| Total BTEX | ND | 100 | " | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7830 | | " | 8000 | | 97.9 | 50-150 | | | |
| LCS (1851003-BS1) | | | | Prepared: 1 | 12/17/18 1 <i>A</i> | Analyzed: 1 | 12/18/18 1 | | | |
| Benzene | 5840 | 100 | ug/kg | 5000 | | 117 | 70-130 | | | |
| Toluene | 5800 | 100 | " | 5000 | | 116 | 70-130 | | | |
| Ethylbenzene | 5600 | 100 | " | 5000 | | 112 | 70-130 | | | |
| p,m-Xylene | 11400 | 200 | " | 10000 | | 114 | 70-130 | | | |
| o-Xylene | 5550 | 100 | " | 5000 | | 111 | 70-130 | | | |
| Total Xylenes | 17000 | 100 | " | 15000 | | 113 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7820 | | " | 8000 | | 97.7 | 50-150 | | | |
| Matrix Spike (1851003-MS1) | Sou | rce: P812035- | 01 | Prepared: 1 | 12/17/18 1 <i>A</i> | Analyzed: 1 | 12/18/18 1 | | | |
| Benzene | 5910 | 100 | ug/kg | 5000 | ND | 118 | 54.3-133 | | | |
| Toluene | 5890 | 100 | " | 5000 | ND | 118 | 61.4-130 | | | |
| Ethylbenzene | 5800 | 100 | " | 5000 | ND | 116 | 61.4-133 | | | |
| p,m-Xylene | 11800 | 200 | " | 10000 | ND | 118 | 63.3-131 | | | |
| o-Xylene | 5750 | 100 | " | 5000 | ND | 115 | 63.3-131 | | | |
| Total Xylenes | 17600 | 100 | " | 15000 | ND | 117 | 63.3-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7950 | | " | 8000 | | 99.4 | 50-150 | | | |
| Matrix Spike Dup (1851003-MSD1) | Sou | rce: P812035- | 01 | Prepared: 1 | 12/17/18 1 <i>A</i> | Analyzed: 1 | 12/18/18 1 | | | |
| Benzene | 5790 | 100 | ug/kg | 5000 | ND | 116 | 54.3-133 | 2.00 | 20 | |
| Toluene | 5780 | 100 | " | 5000 | ND | 116 | 61.4-130 | 1.90 | 20 | |
| Ethylbenzene | 5690 | 100 | " | 5000 | ND | 114 | 61.4-133 | 1.95 | 20 | |
| p,m-Xylene | 11600 | 200 | " | 10000 | ND | 116 | 63.3-131 | 1.97 | 20 | |
| o-Xylene | 5640 | 100 | " | 5000 | ND | 113 | 63.3-131 | 2.00 | 20 | |
| Total Xylenes | 17200 | 100 | " | 15000 | ND | 115 | 63.3-131 | 1.98 | 20 | |
| Surrogate: 4-Bromochlorobenzene-PID | 7960 | | " | 8000 | | 99.5 | 50-150 | | | |
| | | | | | | | | | | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



BP America Production Co. PO Box 22024

Tulsa OK, 74121-2024

Project Name:

Riddle Piles

Project Number: 03 Project Manager: St

03143-0424 Steve Moskal **Reported:** 12/20/18 15:09

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--|--------|---------------|-------|-------------|--------------|-------------|-----------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 1851003 - Purge and Trap EPA 5030A | | | | | | | | | | |
| Blank (1851003-BLK1) | | | | Prepared: 1 | 12/17/18 1 / | Analyzed: 1 | 2/18/18 1 | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.37 | | " | 8.00 | | 92.1 | 50-150 | | | |
| LCS (1851003-BS2) | | | | Prepared: 1 | 12/17/18 1 / | Analyzed: 1 | 2/18/18 1 | | | |
| Gasoline Range Organics (C6-C10) | 42.6 | 20.0 | mg/kg | 50.0 | | 85.3 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.43 | | " | 8.00 | | 92.8 | 50-150 | | | |
| Matrix Spike (1851003-MS2) | Sour | rce: P812035- | 01 | Prepared: 1 | 12/17/18 1 / | Analyzed: 1 | 2/18/18 1 | | | |
| Gasoline Range Organics (C6-C10) | 43.4 | 20.0 | mg/kg | 50.0 | ND | 86.7 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.64 | | " | 8.00 | | 95.5 | 50-150 | | | |
| Matrix Spike Dup (1851003-MSD2) | Sour | rce: P812035- | 01 | Prepared: 1 | 12/17/18 1 / | Analyzed: 1 | 2/18/18 2 | | | |
| Gasoline Range Organics (C6-C10) | 41.3 | 20.0 | mg/kg | 50.0 | ND | 82.6 | 70-130 | 4.85 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.67 | | " | 8.00 | | 95.9 | 50-150 | | | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



BP America Production Co. Project Name: Riddle Piles
PO Box 22024 Project Number: 03143-0424
Tulsa OK, 74121-2024 Project Manager: Steve Moskal

Reported: 12/20/18 15:09

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---|--------|---------------|-------|-----------|---------------------|-------------|-----------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 1851005 - DRO Extraction EPA 3570 | | | | | | | | | | |
| Blank (1851005-BLK1) | | | | Prepared: | 12/17/18 1 <i>A</i> | Analyzed: 1 | 2/18/18 0 | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | | | | | | | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | " | | | | | | | |
| Surrogate: n-Nonane | 46.7 | | " | 50.0 | | 93.3 | 50-200 | | | |
| LCS (1851005-BS1) | | | | Prepared: | 12/17/18 1 <i>A</i> | Analyzed: 1 | 2/18/18 0 | | | |
| Diesel Range Organics (C10-C28) | 462 | 25.0 | mg/kg | 500 | | 92.3 | 38-132 | | | |
| Surrogate: n-Nonane | 46.9 | | " | 50.0 | | 93.7 | 50-200 | | | |
| Matrix Spike (1851005-MS1) | Sour | rce: P812035- | 01 | Prepared: | 12/17/18 1 <i>A</i> | Analyzed: 1 | 2/18/18 1 | | | |
| Diesel Range Organics (C10-C28) | 472 | 25.0 | mg/kg | 500 | ND | 94.3 | 38-132 | | | |
| Surrogate: n-Nonane | 46.8 | | " | 50.0 | | 93.7 | 50-200 | | | |
| Matrix Spike Dup (1851005-MSD1) | Sour | rce: P812035- | 01 | Prepared: | 12/17/18 1 <i>A</i> | Analyzed: 1 | 2/18/18 1 | | | |
| Diesel Range Organics (C10-C28) | 487 | 25.0 | mg/kg | 500 | ND | 97.4 | 38-132 | 3.24 | 20 | |
| Surrogate: n-Nonane | 47.7 | | " | 50.0 | | 95.5 | 50-200 | | | |

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Ph (505) 632-0615 Fx (505) 632-1865



BP America Production Co. Project Name: Riddle Piles
PO Box 22024 Project Number: 03143-0424
Tulsa OK, 74121-2024 Project Manager: Steve Moskal

Reported: 12/20/18 15:09

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---|--------|---------------|-------|-------------|--------------|-------------|-----------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 1851014 - DRO Extraction EPA 3570 | | | | | | | | | | |
| Blank (1851014-BLK1) | | | | Prepared: 1 | 12/18/18 1 / | Analyzed: 1 | 2/19/18 1 | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | | | | | | | |
| Oil Range Organics (C28-C40+) | ND | 50.0 | " | | | | | | | |
| Surrogate: n-Nonane | 40.5 | | " | 50.0 | | 81.0 | 50-200 | | | |
| LCS (1851014-BS1) | | | | Prepared & | Analyzed: | 12/18/18 1 | | | | |
| Diesel Range Organics (C10-C28) | 461 | 25.0 | mg/kg | 500 | | 92.3 | 38-132 | | | |
| Surrogate: n-Nonane | 46.2 | | " | 50.0 | | 92.4 | 50-200 | | | |
| Matrix Spike (1851014-MS1) | Sou | rce: P812035- | 20 | Prepared: 1 | 12/18/18 1 A | Analyzed: 1 | 2/18/18 2 | | | |
| Diesel Range Organics (C10-C28) | 463 | 25.0 | mg/kg | 500 | ND | 92.6 | 38-132 | | | |
| Surrogate: n-Nonane | 46.0 | | " | 50.0 | | 92.1 | 50-200 | | | |
| Matrix Spike Dup (1851014-MSD1) | Sour | rce: P812035- | 20 | Prepared: 1 | 12/18/18 1 A | Analyzed: 1 | 2/18/18 2 | | | |
| Diesel Range Organics (C10-C28) | 475 | 25.0 | mg/kg | 500 | ND | 95.1 | 38-132 | 2.60 | 20 | |
| Surrogate: n-Nonane | 46.4 | | " | 50.0 | | 92.9 | 50-200 | | | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



BP America Production Co. Project Name: Riddle Piles

PO Box 22024 Project Number: 03143-0424 Reported:

Tulsa OK, 74121-2024 Project Manager: Steve Moskal 12/20/18 15:09

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---|-----------|-------------|-------|------------|-----------|--------------|--------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 1851020 - Anion Extraction EPA 30 | 0.0/9056A | | | | | | | | | |
| Blank (1851020-BLK1) | | | | Prepared & | Analyzed | : 12/19/18 1 | | | | |
| Chloride | ND | 20.0 | mg/kg | | | | | | | |
| LCS (1851020-BS1) | | | | Prepared & | Analyzed: | : 12/19/18 1 | | | | |
| Chloride | 253 | 20.0 | mg/kg | 250 | | 101 | 90-110 | | | |
| Matrix Spike (1851020-MS1) | Sourc | e: P812035- | 01 | Prepared & | Analyzed: | : 12/19/18 1 | | | | |
| Chloride | 1230 | 20.0 | mg/kg | 250 | 914 | 126 | 80-120 | | | SPK1 |
| Matrix Spike Dup (1851020-MSD1) | Sourc | e: P812035- | 01 | Prepared & | Analyzed: | : 12/19/18 1 | | | | |
| Chloride | 1140 | 20.0 | mg/kg | 250 | 914 | 90.1 | 80-120 | 7.48 | 20 | |

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Ph (505) 632-0615 Fx (505) 632-1865



BP America Production Co.

Project Name: Riddle Piles

PO Box 22024

Tulsa OK, 74121-2024

Project Manager: Steve Moskal

Reported: 12/20/18 15:09

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Form C-141

Initial Report with

Remediation Plan

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

Initial Report

| Responsible Party | Res | pon | sib | le | P | ari | tv |
|-------------------|-----|-----|-----|----|---|-----|----|
|-------------------|-----|-----|-----|----|---|-----|----|

| Responsible Party: BPX Energy | | | | | OGRID: 778 | | | | |
|--|---|--|---------------------------------|-------------|-----------------------------------|--|--|--|--|
| Contact Nan | ne: Steve Mo | oskal | | | Contact Telephone: (505) 330-9179 | | | | |
| Contact email: steven.moskal@bpx.com | | | | | Incident # (assigned by OCD) | | | | |
| Contact mailing address: 1199 Main St., Suite 101, Durango CO, 81301 | | | | | | | | | |
| | | | Location | n of R | delease So | | | | |
| Latitude: <u>36.6</u> | 5827° | | (NAD 83 in a | lecimal de | Longitude: grees to 5 decim | - <u>107.71018°</u> nal places) | | | |
| Site Name: R | iddle F LS (| 001 | | | Site Type: | Natural Gas Production Well Pad | | | |
| Date Release | Discovered | : Unknown - 1994 | | | API#: 30-0 | 45-07407 | | | |
| Unit Letter | nit Letter Section Township Range | | | County | | | | | |
| L | 17 | T28N | | | | | | | |
| Crude Oi | | Volume Release | ed (bbls) | ch calculat | ions or specific | justification for the volumes provided below) Volume Recovered (bbls) | | | |
| Produced | Water | | ed (bbls): N/A Hi | | • | Volume Recovered (bbls): | | | |
| | | Is the concentrate produced water | tion of dissolved >10.000 mg/l? | chloride | e in the | ☐ Yes ☐ No | | | |
| Condensa | ite | Volume Release | | | | Volume Recovered (bbls): <u>0 bbls</u> | | | |
| Natural C | ral Gas Volume Released (Mcf) | | | | | Volume Recovered (Mcf) | | | |
| Other (de | (describe) Volume/Weight Released (provide units) | | | de units) |) | Volume/Weight Recovered (provide units) | | | |
| | ly 25 years | ago, hydrocarbon release occurred o | | iter impa | acted soil was | s placed on the Riddle F LS 001 well pad for onsite | | | |

State of New Mexico Oil Conservation Division

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

| Was this a major release as defined by | If YES, for what reason(s) does the responsible party consider this a major release? |
|---|---|
| 19.15.29.7(A) NMAC? | |
| ☐ Yes ⊠ No | |
| | |
| If YES, was immediate no | otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? |
| | |
| | Initial Response |
| The responsible p | party must undertake the following actions immediately unless they could create a safety hazard that would result in injury |
| ☐ The source of the rele | ase has been stopped. |
| ☐ The impacted area ha | s been secured to protect human health and the environment. |
| Released materials ha | we been contained via the use of berms or dikes, absorbent pads, or other containment devices. |
| All free liquids and re | ecoverable materials have been removed and managed appropriately. |
| If all the actions described | l above have <u>not</u> been undertaken, explain why: |
| | |
| | |
| | |
| | |
| Per 19.15.29.8 B. (4) NM | AC the responsible party may commence remediation immediately after discovery of a release. If remediation |
| has begun, please attach a | a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. |
| regulations all operators are public health or the environment failed to adequately investigations. | rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atteand remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws |
| Printed Name: _Steve Mo | skal Title:Environmental Coordinator |
| Signature: | Muse Date: <u>April 11, 2019</u> |
| email: <u>steven.moskal@</u> | bpx.com Telephone: _(505) 330-9179 |
| OCD Only | |
| | |
| Received by: | Date: |

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 discovery date.

| What is the shallowest depth to groundwater beneath the area affected by the release? | (ft bgs) | | | | | |
|--|------------|--|--|--|--|--|
| Did this release impact groundwater or surface water? | ☐ Yes ⊠ No | | | | | |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ⊠ No | | | | | |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ⊠ No | | | | | |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ⊠ No | | | | | |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ⊠ No | | | | | |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ⊠ No | | | | | |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ⊠ No | | | | | |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ⊠ No | | | | | |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ⊠ No | | | | | |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | | | | | | |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ⊠ No | | | | | |
| Did the release impact areas not on an exploration, development, production, or storage site? | | | | | | |
| 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. | | | | | | |
| <u>Characterization Report Checklist</u> : Each of the following items must be included in the report. | | | | | | |
| Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody | ls. | | | | | |
| La 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.

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: Steve Moskal Title: Environmental Coordinator |
| Signature: Date: _April 11, 2019_ |
| email: <u>steven.moskal@bpx,com</u> Telephone: <u>(505) 330-9179</u> |
| OCD Only |
| Received by: Date: |

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 plan. | | | |
|--|--|--|--|
| ☑ 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: Steve Moskal Title: Environmental Coordinator | | | |
| Signature: April 11, 2019 | | | |
| email: <u>steven.moskal@bpx.com</u> Telephone: <u>(505) 330-9179</u> | | | |
| 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 is | tems 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 nust be notified 2 days prior to liner inspection) | | |
| ☐ Laboratory analyses of final sampling (Note: appropriate ODG | C District office must be notified 2 days prior to final sampling) | |
| ☐ Description of remediation activities | | |
| | | |
| and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the Coaccordance. | ntions. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. | |
| Printed Name: | | |
| Signature: | Date: | |
| email: | Telephone: | |
| | | |
| OCD Only | | |
| Received by: | Date: | |
| | of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations. | |
| Closure Approved by: | Date: | |
| Printed Name: | Title: | |
| | | |

BP Remediation Plan

To: Cory Smith (NMOCD), Emmanuel Adeloye (BLM)

From: Steve Moskal (BPX)
CC: Sabre Beebe (BPX)

Date: 4/11/2019

Re: Riddle F LS 001 - Soil Remediation - Dig and Haul

API#: 30-045-07407 (L), S17, T28N, R08W; Fed Serial #SF-080112

Stockpiles GPS: 36.65827°, -107.71018°

Mr. Smith and Mr. Adeloye,

The Riddle F LS 001 site is a plugged and abandoned natural gas production well location within the San Juan Basin Gas Field in San Juan County, New Mexico. The site is located on land managed by the Bureau of Reclamation and Land Management Farmington Field Office (BLM-FFO) and is in an area primarily used for oil and gas production with limited recreation use. The production well was drilled in 1952.

Background

Approximately 20 years ago, circa 1999, hydrocarbon and produced water impacted soil was placed on the Riddle F LS 001 well pad for onsite landfarming. The stockpiles are estimated to contain approximately 10,000-15,000 cubic yards of soil. The presence of these piles prohibits final reclamation and obtaining final abandonment approval of the well pad. Soil sampling of the piles was conducted on December 14, 2018 with results for hydrocarbons below NMOCD spill and release guideline levels. However, the results for chlorides were elevated, preventing beneficial use of the soil to area oil and gas operators.

<u>Proposed Remediation – Removal of Soil</u>

Adherent to the NMAC 19.15.29, the soil with elevated chlorides cannot remain at the current location of the Riddle F LS 001 wellpad. The soil must be removed for either offsite disposal at an NMOCD approved surface waste facility or may be placed at a site where closure criteria for chlorides is acceptable for the given concentration range of 1,200 ppm to 2,000 ppm chloride.

BP has worked with the BLM Farmington Field office personnel of Natural Resource Management to identify open soil borrow pits needing backfill material for final reclamation. Soil will be removed from the Riddle F LS 001 well pad and transported via trucks to the approved and acceptable sites listed below. The soil will be placed into the opened borrow pits and compacted as fill is added. The fill will be placed to ensure a minimum of four feet of native cover or topsoil when complete. The backfilled and covered area will then be reclaimed to BLM requirements, including, contouring, stormwater management, seeding and final abandonment requirements, as agreed upon by pit users and the BLM. Below are the sites identified by the BLM as being acceptable for closure. The table includes the location information as well as any reference material for site ranking criteria following NMAC 19.15.29.12. In the event that the pits are not of adequate size to accept the volume of soil or other unforeseen complications, the soil will be disposed at an NMOCD surface waste facility.

The soil removal will be observed for changing conditions of color, odor, debris, contnents, etc. and report immediately to the NMOCD and BLM if there are any concerns. Once the stockpiles are

removed, within 30 days, BP will perform vadose zone sampling beneath the footprint of the stockpiles, sampling for TPH, BTEX and chlorides to determine if the site meets closure.

| Location | Legal Description | GPS Coordinates | Ranking Criteria |
|--|-------------------------|--|--|
| Riddle F LS 001 (Stockpile Source) | (L), S17, T28N, R08W | 36.65827, -107.71018 Surface Elevation 5,725' | <50' to groundwater. Largo Wash elev. 5,719'. |
| Doggie Pit | T25N R6W Sec 4 NWSW | 36.42718, -107.47983 Location to be Confirmed Surface Elevation 6,430' | Greater than 10,000 mg/kg Cl; Reference attached Canyon Largo Unit 486 BGT Registration |
| Pine Tree Mesa Rock Pit | T25N R6W Sec 9 NWNW | 36.41886, -107.48098 Surface Elevation 6,660' | Greater than 10,000 mg/kg Cl; Reference attached Canyon Largo Unit 486 BGT Registration |
| Kline Mesa Pit | T26N R6W Sec 33 SWNE | 36.44578, -107.46996 Surface Elevation, 6,730' | Greater than 10,000 mg/kg Cl Reference attached Klein 26N BGT Registration |
| Unnamed site | T26N R8W Sec 22 | 36.47451, -107.66249 | Less than 100' to wash |
| Marron Sandstone Pit | T27N R8W Sec 27 SENE | 36.54655, -107.66284 | Within 150' of tributary of Largo Wash |

Site Ranking

Depth to groundwater at the Riddle F LS 001 stockpile site is estimated to be less than 50 feet from ground surface. This estimation is based on the proximity of Largo Wash being approximately 500 feet away and an elevation difference of approximately 6 feet.

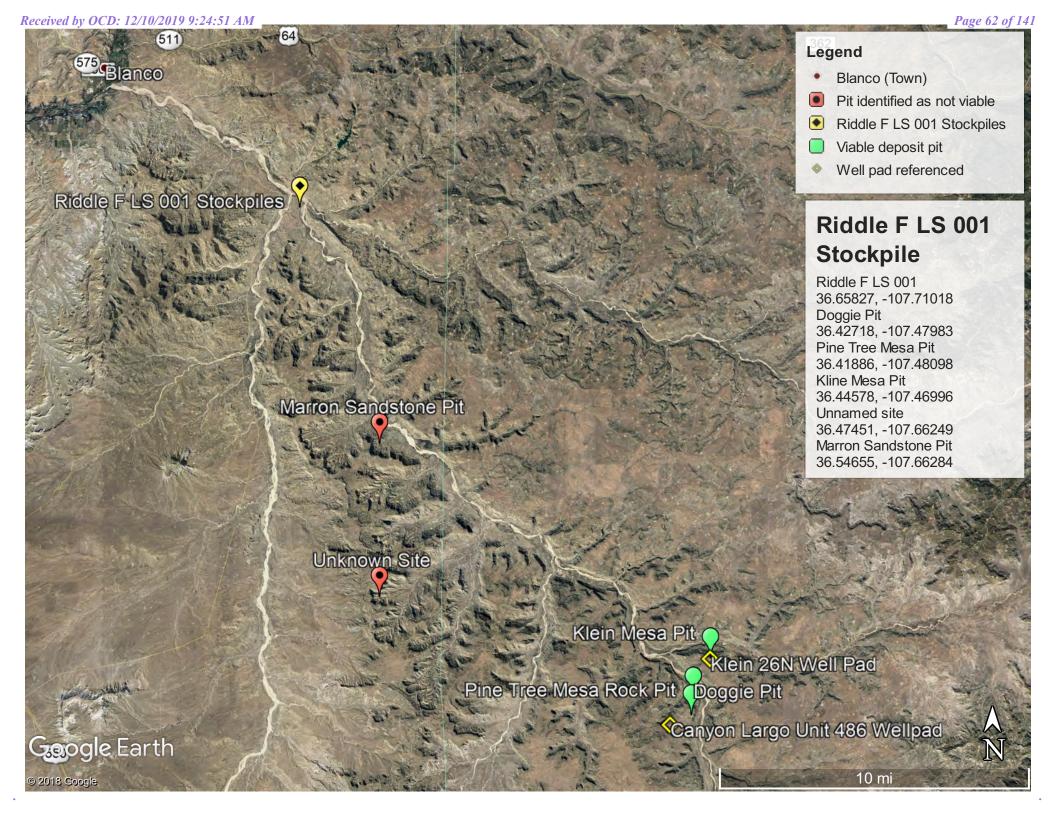
The Marron and unnamed pits are within 150' and 100' of significant ephemeral water ways, defaulting both to 600 mg/kg chloride threshold. These will not be acceptable deposit sites for the soil.

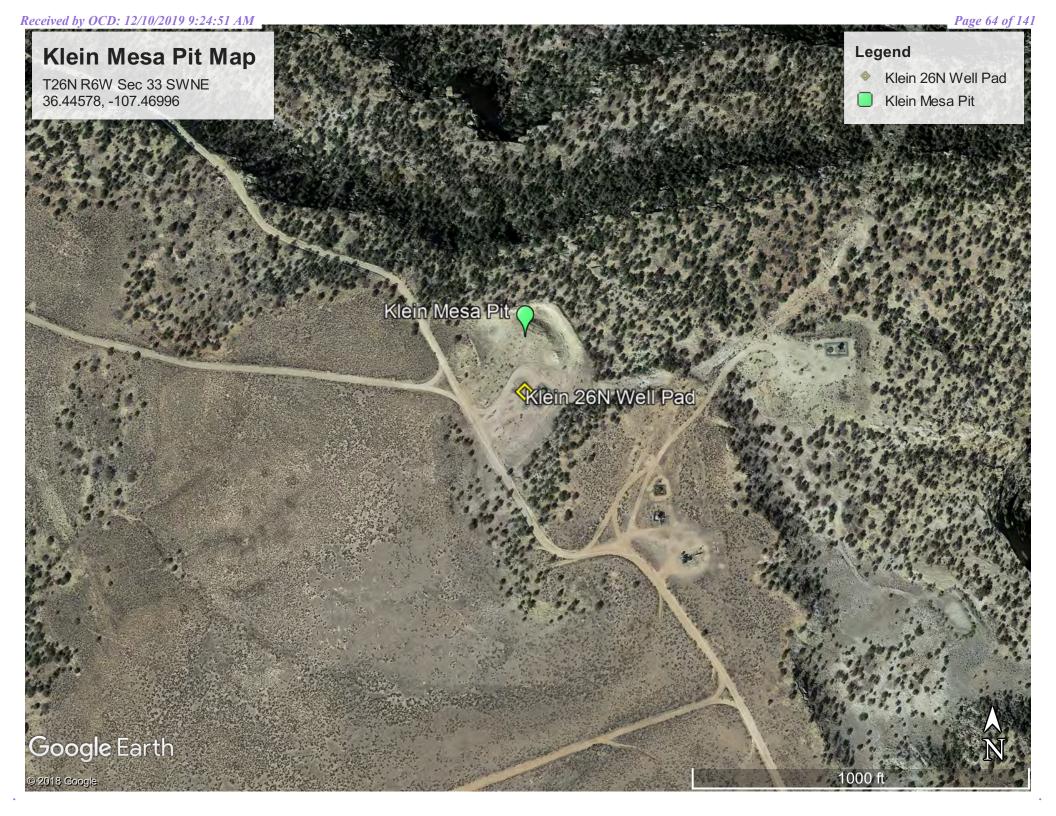
The Doggie, Pine Tree Mesa and Klein Mesa pits are a viable deposit sites for the soil. Each are greater than 100' to groundwater, greater than 200' to a surface water or tributary, greater than 1,000 from a domestic water source, occupied structure/institution and none within a municipal boundary. Attached are reference siting criteria for each. The Pine Tree Mesa pit and Doggie pit are within 4,000 and 6,000 feet of the Canyon Largo Unit 486 well pad, with similar elevation (6,710'). The Klein Mesa Pit is within 200' of the Klein 26N well pad with equal elevations.

Based on the siting criteria, the remediation site closure standards will be 2,500 ppm TPH, 1,000 ppm GRO+DRO, 50 ppm BTEX, 10 ppm benzene and 10,000 ppm chlorides. The soil samples from December 14, 2018 meet these parameters.

Site Closure and Reporting

Once the trucking activity is complete, vadose zone sampling results are received BP will request closure of the Riddle F LS 001 stockpile site within 60 and proceed with final reclamation at the site under the guidance of the BLM.





District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., 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-144 July 21, 2008

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Proposed Alternative Method Permit or Closure Plan Application

| Type of action: | X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method |
|-----------------|--|
| | Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method |
| | Modification to an existing permit |
| | Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method |

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

| Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538 |
|---|
| Address: PO Box 4289, Farmington, NM 87499 |
| Facility or well-name: CANYON LARGO UNIT 486 |
| API Number: 3003929722 OCD Permit Number: |
| U/L or Qtr/Qtr: F Section: 8 Township: 25N Range: 6W County: Rio Arriba |
| Center of Proposed Design: Latitude: 36.4143°N Longitude: -107.4926°W NAD: X 1927 1983 |
| Surface Owner: X Federal State Private Tribal Trust or Indian Allotment |
| Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D |
| Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other Liner Seams: Welded Factory Other |
| 4 X Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Metal Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE PVC X Other Unspecified |
| 5 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. |

Page 1 of 5

| 6 | | |
|---|------------------|----------|
| Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) | | |
| Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, in | astitution or ch | urch) |
| Four foot height, four strands of barbed wire evenly spaced between one and four feet | isitinity of th | iir(ii) |
| X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire. | | |
| | | |
| Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) | | |
| X Screen Netting Other | | |
| Monthly inspections (If netting or screening is not physically feasible) | | |
| | | |
| 8 Signs: Subsection C of 19.15.17.11 NMAC | | |
| 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers | | |
| X Signed in compliance with 19.15.3.103 NMAC | | |
| 9 | | |
| Administrative Approvals and Exceptions: | | |
| Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. | | |
| Please check a box if one or more of the following is requested, if not leave blank: | | |
| X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con (Fencing/BGT Liner) | isideration of a | pproval. |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | | |
| Exception(s). Requests must be submitted to the sama be unwitnessed buleau office for consideration of approval. | | |
| Siting Criteria (regarding permitting): 19.15.17.10 NMAC | | |
| Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system. | | |
| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | Yes | XNo |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | Yes | XNo |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | Yes | XNo |
| (Applies to temporary, emergency, or cavitation pits and below-grade tanks) | □ NA | |
| - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | | |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | Yes | No |
| (Applied to permanent pits) | XNA | |
| - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | | |
| Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. | Yes | XNo |
| - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. | | |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality | Yes | XNo |
| Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | Yes | X No |
| Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division | Yes | XNo |
| Within an unstable area. | Yes | X No |
| Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | | |
| Within a 100-year floodplain - FEMA map | Yes | XNo |

| | owing itoms must be attached to the as | polication Please indicate h | thment Checklist: Subsection B of 19.15.17.9 NMAC of the check mark in the box, that the documents are attached. |
|--|--|---|---|
| | | | agraph (4) of Subsection B of 19.15.17.9 NMAC |
| | | | nts of Paragraph (2) of Subsection B of 19:15.17.9 |
| | pliance Demonstrations - based up | | |
| | I upon the appropriate requirements | | ens of 17.15.17.10 Hite |
| | ntenance Plan - based upon the appr | | 15 17 12 NMAC |
| = | | | |
| | and 19.15.17.13 NMAC | applicable) - based upon th | e appropriate requirements of Subsection C of |
| Previously Approved D | esign (attach copy of design) | API | or Permit |
| Instructions: Each of the following Geologic and Hydro | ogeologic Data (only for on-site clos pliance Demonstrations (only for or | pplication. Please indicate, by sure) - based upon the requi nn-site closure) - based upon | 6.17.9 NMAC a check mark in the box, that the documents are attached. rements of Paragraph (3) of Subsection B of 19.15.17.9 the appropriate requirements of 19.15.17.10 NMAC |
| Design Plan - based | upon the appropriate requirements | s of 19.15.17.11 NMAC | |
| Operating and Main | ntenance Plan - based upon the appr | ropriate requirements of 19. | 15.17.12 NMAC |
| Closure Plan (Please NMAC and 19.15.1 | | applicable) - based upon th | e appropriate requirements of Subsection C of 19.15.17.9 |
| | esign (attach copy of design) | API | |
| | perating and Maintenance Plan | API | |
| | | | |
| Dike Protection and Leak Detection Desi Liner Specifications Quality Control/Qua Operating and Main Freeboard and Over | ng Design Plans - based upon the ap Structural Integrity Design: based ign - based upon the appropriate red and Compatibility Assessment - ba- ality Assurance Construction and In tenance Plan - based upon the appropring Prevention Plan - based up- ous Odors, including H2S, Prevention | upon the appropriate require quirements of 19.15.17.11 Mased upon the appropriate re- astallation Plan ropriate requirements of 19. you the appropriate requirements | ements of 19.15.17.11 NMAC NMAC equirements of 19.15.17.11 NMAC |
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| Emergency Respons Oil Field Waste Stre Monitoring and Insp Erosion Control Plan Closure Plan - based Proposed Closure: 19.15 Instructions: Please complete Type: Drilling Wo Alternative Proposed Closure Method: Droposed Closure Method: Droposed Closure Method: Droposed Closure Method: | cam Characterization section Plan in d upon the appropriate requirements 1.7.13 NMAC the applicable boxes, Boxes 14 throughout the applicable boxes, Boxes 14 through the applic | nugh 18, in regards to the propition P&A Perman al (Below-Grade Taisystems only) for temporary pits and closed On-site Trench exceptions must be submitted | osed closure plan. ent Pit X Below-grade Tank Closed-loop System nk) -loop systems) to the Santa Fe Environmental Bureau for consideration) ons: Each of the following items must be attached to the closure plan |
| Emergency Respons Oil Field Waste Stre Monitoring and Insp Erosion Control Plan Closure Plan - based Proposed Closure: 19.15 Instructions: Please complete Type: Drilling Wo Alternative Troposed Closure Method: Syste Excavation and Resplease indicate, by a check management. Yeste Excavation and Proceed | cam Characterization section Plan in d upon the appropriate requirements 1.7.13 NMAC the applicable boxes, Boxes 14 throughout the applicable boxes, Boxes 14 throughout the applicable boxes and Removal Waste Excavation and Removal Waste Removal (Closed-loop s On-site Closure Method (only sometime of the applicable boxes) Alternative Closure Method (Elemoval Closure Plan Checklist: (Interest in the box, that the documents and dures - based upon the appropriate section of the | nugh 18, in regards to the propition P&A Perman al (Below-Grade Taileystems only) for temporary pits and closed On-site Trench exceptions must be submitted 19.15.17.13 NMAC) Instruction re attached. requirements of 19.15.17.13 | osed closure plan. ent Pit X Below-grade Tank Closed-loop System nk) -loop systems) to the Santa Fe Environmental Bureau for consideration) ons: Each of the following items must be attached to the closure plan |
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| Emergency Respons Oil Field Waste Stre Monitoring and Insp Erosion Control Plan Closure Plan - based Proposed Closure: 19.15 Instructions: Please complete Type: Drilling Wo Alternative Proposed Closure Method: Proposed Closure Method: Naste Excavation and Re Please indicate, by a check m X Protocols and Procee X Confirmation Sampl X Disposal Facility Na | am Characterization section Plan in it upon the appropriate requirements in it is applicable boxes, Boxes 14 throw it is applicable boxes, Boxes 14 throw it is applicable in it is applicable in it is appropriate in it is applicable in it is appli | nugh 18, in regards to the propition P&A Perman al (Below-Grade Tarsystems only) for temporary pits and closed On-site Trench exceptions must be submitted at the submitted at the submitted at the submitted on the appropriate requirements of 19.15.17.13 on the appropriate requirements, drilling fluids and drill cut | osed closure plan. ent Pit X Below-grade Tank Closed-loop System nk) -loop systems) to the Santa Fe Environmental Bureau for consideration) ons: Each of the following items must be attached to the closure plants of Subsection F of 19.15.17.13 NMAC |
| Emergency Respons Oil Field Waste Stre Monitoring and Insp Erosion Control Plan Closure Plan - based Croposed Closure: 19.15 Instructions: Please complete Type: Drilling Wo Alternative Troposed Closure Method: Street Excavation and Respect to the street of the street | am Characterization section Plan in it upon the appropriate requirements in it is applicable boxes, Boxes 14 throw it is applicable boxes, Boxes 14 throw it is applicable in it is applicable in it is appropriate in it is applicable in it is appli | nugh 18, in regards to the propition P&A Perman (Below-Grade Tailsystems only) for temporary pits and closed On-site Trench exceptions must be submitted 19.15.17.13 NMAC) Instruction attached. requirements of 19.15.17.13 on the appropriate requirements, drilling fluids and drill cut upon the appropriate requirements. | ent Pit X Below-grade Tank Closed-loop System nk) -loop systems) to the Santa Fe Environmental Bureau for consideration) ons: Each of the following items must be attached to the closure plants of Subsection F of 19.15.17.13 NMAC strings) ments of Subsection H of 19.15.17.13 NMAC |

Form C-144 Oil Conservation Division

Page 3 of 5

| are required. | Dienosal Facility Parmit #. | |
|--|--|---------------------------|
| Disposal Facility Name: | Disposal Facility Permit #: Disposal Facility Permit #: | |
| | ciated activities occur on or in areas that will not be used for future | |
| Required for impacted areas which will not be used for future service a | and operations: In the appropriate requirements of Subsection H of 19.15.17.13 NMAents of Subsection I of 19.15.17.13 NMAC | AC |
| | e closure plan. Recommendations of acceptable source material are provided bei te district office or may be considered an exception which must be submitted to th | |
| Ground water is less than 50 feet below the bottom of the buried | | Yes No |
| NM Office of the State Engineer - iWATERS database search; U | SGS: Data obtained from nearby wells | ∐N/A |
| Fround water is between 50 and 100 feet below the bottom of the - NM Office of the State Engineer - iWATERS database search; US | | Yes No |
| | the control of the co | |
| Fround water is more than 100 feet below the bottom of the burie - NM Office of the State Engineer - iWATERS database search; US | | Yes No |
| Vithin 300 feet of a continuously flowing watercourse, or 200 feet of a measured from the ordinary high-water mark). | | Yes No |
| - Topographic map: Visual inspection (certification) of the propose | d site | |
| /ithin 300 feet from a permanent residence, school, hospital, institution - Visual inspection (certification) of the proposed site; Aerial photo; | | Yes No |
| - Visual hispection (certification) of the proposed site, vietnal photo, | satellite image | ☐Yes ☐No |
| Vithin 500 horizontal feet of a private, domestic fresh water well or spr urposes, or within 1000 horizontal fee of any other fresh water well or - NM Office of the State Engineer - iWATERS database; Visual ins | spring, in existence at the time of the initial application. pection (certification) of the proposed site | |
| Vithin incorporated municipal boundaries or within a defined municipal ursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Writte | | Yes No |
| Within 500 feet of a wetland | | Yes No |
| - US Fish and Wildlife Wetland Identification map; Topographic m | ap; Visual inspection (certification) of the proposed site | |
| Vithin the area overlying a subsurface mine. - Written confirantion or verification or map from the NM EMNRE | D-Mining and Mineral Division | Yes No |
| Vithin an unstable area. | 9 110 110 110 110 110 110 110 110 110 11 | Yes No |
| - Engineering measures incorporated into the design; NM Bureau of Topographic map | Geology & Mineral Resources; USGS; NM Geological Society; | |
| Vithin a 100-year floodplain FEMA map | | Yes No |
| by a check mark in the box, that the documents are attached. | ctions: Each of the following items must bee attached to the closur | re plan. Please indicate, |
| Siting Criteria Compliance Demonstrations - based upon the | | |
| Proof of Surface Owner Notice - based upon the appropria | | |
| | based upon the appropriate requirements of 19.15.17.11 NMAC | 0.15.17.11 \$344.0 |
| Protocols and Procedures - based upon the appropriate req | urial of a drying pad) - based upon the appropriate requirements of 1 uirements of 19.15.17.13 NMAC | 9.15.1/.11 NMAC |
| | ne appropriate requirements of Subsection F of 19.15.17.13 NMAC | |
| Waste Material Sampling Plan - based upon the appropriat | | |
| | rilling fluids and drill cuttings or in case on-site closure standards car | nnot be achieved) |
| Soil Cover Design - based upon the appropriate requireme | | mor se dellie red/ |
| Re-vegetation Plan - based upon the appropriate requirement | | |
| Site Reclamation Plan - based upon the appropriate require | ements of Subsection G of 19.15.17.13 NMAC | |

Form C-144

| | Crystal Tafoya | Title: | Regulatory Technician | |
|--|---|--|--|---------------------|
| Signature: | Constal Talon | Date: | 12/22/2008 | |
| e-mail address: | crystal, tatoya@conocophillios.co | Telephone: | 505-326-9837 | |
| | | | | |
| 0 OCD Approval: | Permit Application (including closure plan) | Closure Plan (only) | OCD Conditions (see attachment | |
| OCD Representative | Signature: | | Approval Date: | |
| itle: | | OCD Perm | | |
| | | | | |
| nstructions: Operators a report is required to be st | ired within 60 days of closure completion re required to obtain an approved closure plan abmitted to the division within 60 days of the co is been obtained and the closure activities have | prior to implementing any closus impletion of the closure activities been completed. | | |
| | | The state of the s | | |
| Closure Method: Waste Excavation If different from a | and Removal On-site Closure Met | hod Alternative Closure N | Method Waste Removal (Closed-loc | op systems only) |
| 3 3 | Weste Descript Classes Co. 1 | Section of The State - | and Challengton W. L. Why. | |
| | ng Waste Removal Closure For Closed-loop S tify the facility or facilities for where the liquid | | | than two facilities |
| ere utilized. | | | | • |
| Disposal Facility Nam | | | Permit Number: | |
| Disposal Facility Nam | | | Permit Number: | |
| The second secon | system operations and associated activities perfe | | be used for future service and opeartions? | |
| | demonstrate complilane to the items below) | ∐No | | |
| | areas which will not be used for future service (Photo Documentation) | and operations: | | |
| | nd Cover Installation | | | |
| = | plication Rates and Seeding Technique | | | |
| Ke-vegetation App | pheation Rates and Seeding Technique | | | |
| | achment Checklist: Instructions: Each of to | he following items must be attac | hed to the closure report. Please indicate | by a check mark in |
| | ments are attachea. | | | |
| Closure Report Att | Notice (surface owner and division) | | | |
| Closure Report Att the box, that the document Proof of Closure | | | | |
| Closure Report Att the box, that the docut Proof of Closure Proof of Deed N | Notice (surface owner and division) | | | |
| Closure Report Att the box, that the docu- Proof of Closure Proof of Deed N Plot Plan (for on | Notice (surface owner and division) otice (required for on-site closure) | | | |
| Closure Report Att the box, that the docur Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa | Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) | | | |
| Closure Report Att the box, that the docur Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S | Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) | | | |
| Closure Report Att the box, that the docur Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility | Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number | | | |
| Closure Report Att the box, that the docu- Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Soil Backfilling | Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) | | | |
| Closure Report Att the box, that the docu- Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Soil Backfilling Re-vegetation A | Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation | | | |
| Closure Report Att the box, that the docu- Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Soil Backfilling Re-vegetation A | Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation pplication Rates and Seeding Technique a (Photo Documentation) | Longitude: | NAD ∏ 1927 | ☐ 1983 |
| Closure Report Att the box, that the docus Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Soil Backfilling a Re-vegetation A Site Reclamation | Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation pplication Rates and Seeding Technique a (Photo Documentation) | Longitude: | NAD ☐ 1927 | <u> </u> |
| Closure Report Att the box, that the docut Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Soil Backfilling Re-vegetation A Site Reclamation On-site Closure | Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation pplication Rates and Seeding Technique a (Photo Documentation) | Longitude: | NAD [] 1927 | 1983 |
| Closure Report Att the box, that the docum Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Soil Backfilling Re-vegetation A Site Reclamation On-site Closure | Notice (surface owner and division) otice (required for on-site closure)site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation pplication Rates and Seeding Technique in (Photo Documentation) Location: Latitude: | Longitude: | NAD | 1983 |
| Closure Report Att the box, that the docut Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Soil Backfilling Re-vegetation A Site Reclamation On-site Closure | Notice (surface owner and division) otice (required for on-site closure)site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation pplication Rates and Seeding Technique in (Photo Documentation) Location: Latitude: | | | |
| Closure Report Att the box, that the document of Closure Proof of Closure Proof of Deed Now Plot Plan (for on Confirmation Sale Waste Material Solisposal Facility Soil Backfilling Re-vegetation Ale Site Reclamation On-site Closure Properator Closure Certification Confirmation C | Notice (surface owner and division) otice (required for on-site closure)site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation pplication Rates and Seeding Technique a (Photo Documentation) Location: Latitude: | closure report is ture, accurate a | nd complete to the best of my knowledge a | |
| Closure Report Att the box, that the document of Closure Proof of Closure Proof of Deed Now Plot Plan (for one Confirmation Sate Waste Material Structure of Soil Backfilling of Re-vegetation Agents of Closure Structure Closure Certhereby certify that the interest of the closure complies with | Notice (surface owner and division) otice (required for on-site closure)site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation pplication Rates and Seeding Technique a (Photo Documentation) Location: Latitude: tification: formation and attachments submitted with this | closure report is ture, accurate a | nd complete to the best of my knowledge a | |
| Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Soil Backfilling Re-vegetation A Site Reclamation On-site Closure Proof of Deed N Site Reclamation On-site Closure Properator Closure Cer Confirmation Sa Description Sa Des | Notice (surface owner and division) otice (required for on-site closure)site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation pplication Rates and Seeding Technique a (Photo Documentation) Location: Latitude: tification: formation and attachments submitted with this | closure report is ture, accurate ai ions specified in the approved clo Title: | nd complete to the best of my knowledge a | |
| Closure Report Att the box, that the documents of Closure Proof of Closure Proof of Deed Now Plot Plan (for one Confirmation Sale Waste Material Soil Backfilling Re-vegetation Ale Site Reclamation On-site Closure Confirmation Confirmation Properties With the Infection Report of Closure Complies with the Infection Report of Closure Complies with the Infection Reclassive Complies With the Infection Reclassi | Notice (surface owner and division) otice (required for on-site closure)site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation pplication Rates and Seeding Technique a (Photo Documentation) Location: Latitude: tification: formation and attachments submitted with this | closure report is ture, accurate a ions specified in the approved clo | nd complete to the best of my knowledge a | |

Form C-144

Page 1 of 1

New Mexico Office of the State Engineer POD Reports and Downloads

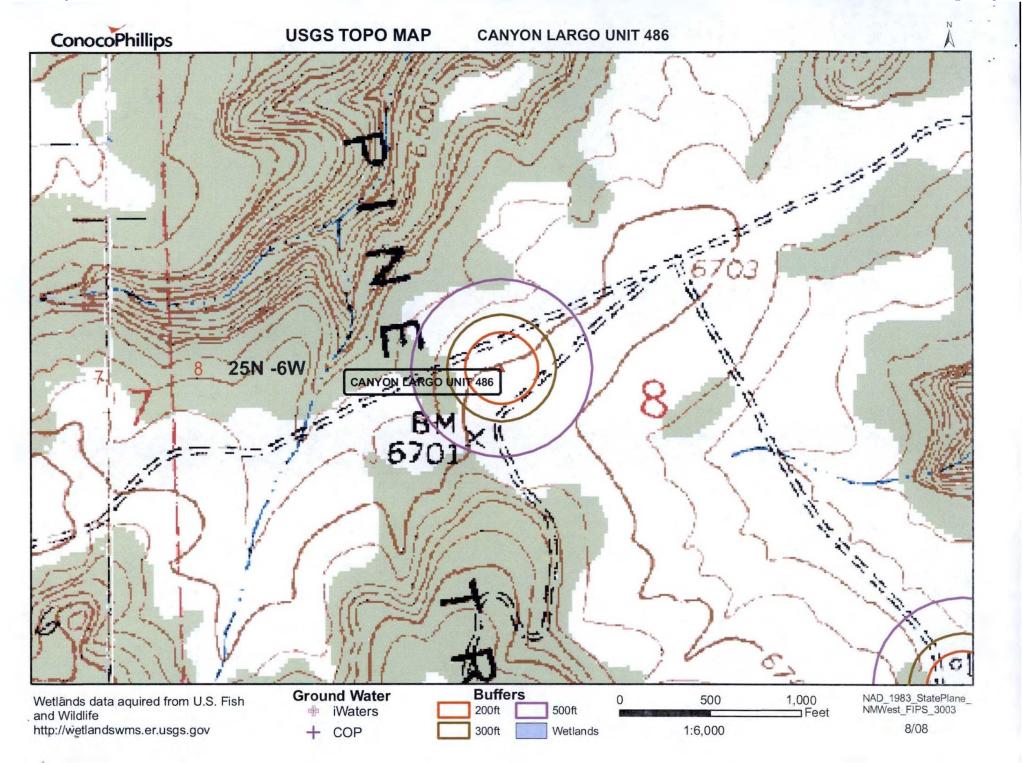
| Township: 25N Rang | e: 06W Sections: | |
|---------------------------|---------------------------|---------------------------|
| NAD27 X: Y: | Zone: Searce | h Radius: |
| County: Basin: | Number: | Suffix: |
| Owner Name: (First) | (Last) C Non-D | Domestic C Domestic 6 All |
| POD / Surface Data Report | Avg Depth to Water Report | Water Column Report |
| Clear | Form iWATERS Menu Help | |
| | | |

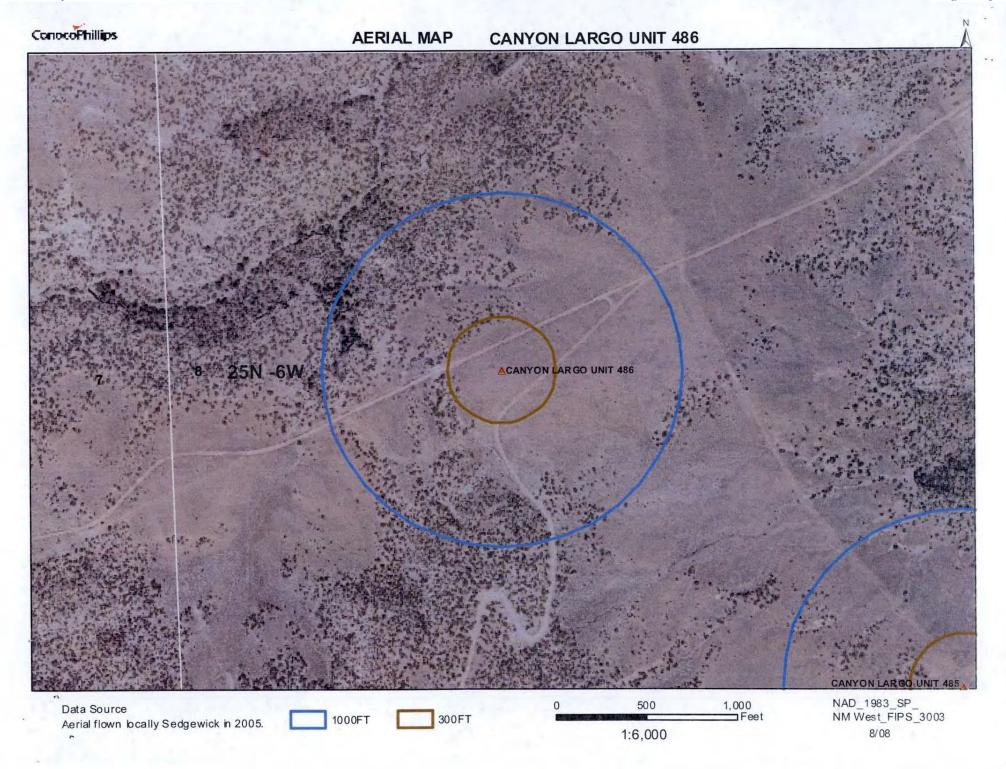
WATER COLUMN REPORT 08/20/2008

| (quarters | are | 1=NW | 2=NE | 3=SW | 4=SE |) |
|-----------|-----|---------|------|------|------|---|
| | | 25 . 21 | | - | 1 mg | |

| | (quarter | quarters are biggest to | | | | | smallest) | | | Depth | Depth | Water (in |
|-------------|----------|-------------------------|-----|---|---|---|-----------|---|---|-------|-------|-----------|
| POD Number | Tws | Rng | Sec | q | q | q | Zone | X | Y | Well | Water | Column |
| SJ 00201 | 25N | 06W | 03 | 4 | 1 | | | | | 1346 | 500 | 846 |
| SJ 00681 | 25N | 06W | 21 | 4 | 1 | 4 | | | | | 80 | |
| SJ 00681 12 | 25N | 06W | 33 | 4 | 4 | 4 | | | | 435 | | |

Record Count: 3

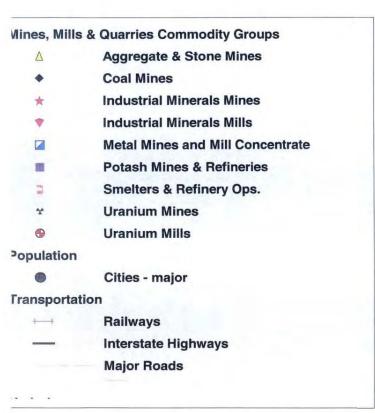


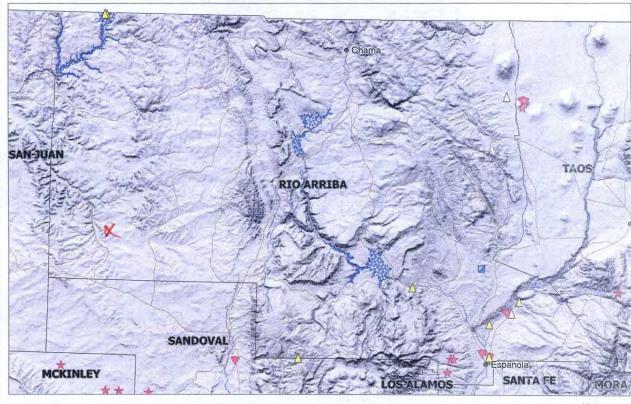


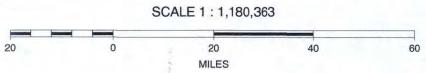
Mines, Mills and Quarries Web Map

CANYON LARGO UNIT 486

Unit Letter: F, Section: 08, Town: 025N, Range: 006W

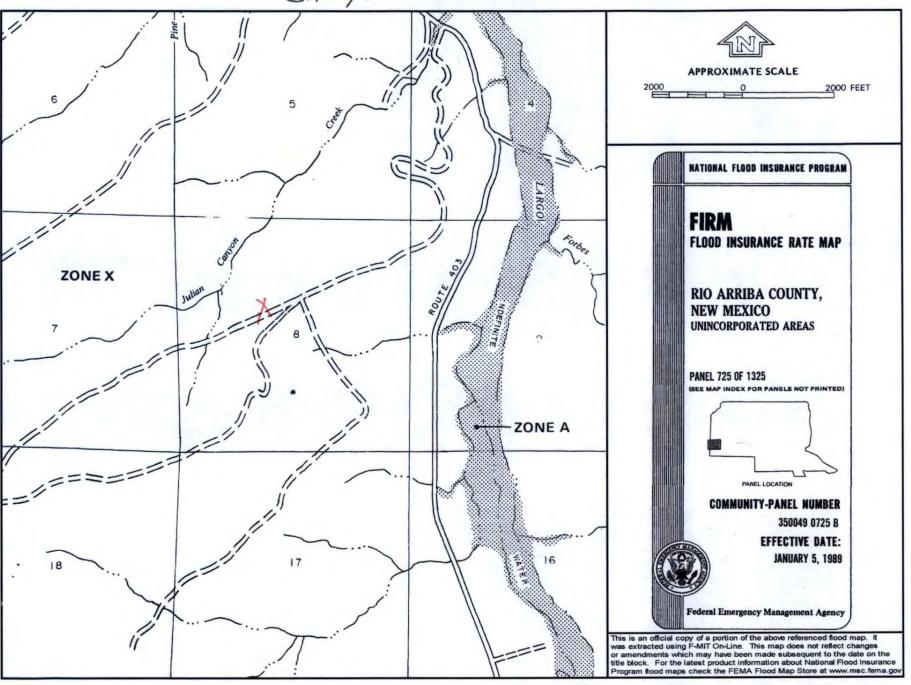








CANYON LARGO UNIT 486



CANYON LARGO UNIT 486

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'CANYON LARGO UNIT 486', which is located at 36.4143 degrees North latitude and 107.4926 degrees West longitude. This location is located on the Gonzales Mesa 7.5' USGS topographic quadrangle. This location is in section 8 of Township 25 North Range 6 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Nageezi, located 17.3 miles to the southwest. The nearest large town (population greater than 10,000) is Farmington, located 45.4 miles to the northwest (National Atlas). The nearest highway is State Highway 403, located 1.2 miles to the southeast. The location is on BLM land and is 4,249 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Blanco Canyon. New Mexico, Subbasin. This location is located 2043 meters or 6701 feet above sea level and receives 10.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 119 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 1,043 feet to the west and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4,265 feet to the west. The nearest water body is 4,217 feet to the west. It is classified by the USGS as an intermittent lake and is 0.7 acres in size. The nearest spring is 6,302 feet to the southwest. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 5,930 feet to the southwest. The nearest wetland is a 0.8 acre other located 4,220 feet to the west. The slope at this location is 1 degree to the northwest as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION--Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Orlie fine sandy loam, 1 to 8 percent slopes' and is well drained and not hydric with moderate erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 26.0 miles to the southwest as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Hydrogeological context:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line. The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an inter-bedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use. The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>

1301 W. Grand Ave., Artesia, NM 88210

District III
1000 Rio Brazos Rd., 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-144 July 21, 2008

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

| Type of action: | X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method |
|-----------------|---|
| | Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method |
| | Modification to an existing permit |
| | Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, |
| | below-grade tank, or proposed alternative method |

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

| environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. |
|--|
| Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538 |
| Address: PO Box 4289, Farmington, NM 87499 |
| Facility or well name: KLEIN 26N |
| API Number: 0CD Permit Number: 0CD Permit Number: |
| U/L or Qtr/Qtr: G Section: 33 Township: 26N Range: 6W County: Rio Arriba |
| Center of Proposed Design: Latitude: 36.4452990°N Longitude: -107.4694200°W NAD: X 1927 1983 |
| Surface Owner: X Federal State Private Tribal Trust or Indian Allotment |
| Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: |
| Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other Liner Seams: Welded Factory Other |
| A |
| Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. |

| Fehring: Subsection D of 19 15 17 14 NMAC (Applies to permanent pit, temporary pits, and below grade lanks) Chain link, six feet in height, two strands of barbed wire at ton (Pennin 186). | |
|--|------------------------------|
| Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, as hood, hospital from front height, four strands of barbed wire evenly spaced between one and four feet | ital, institution or charch) |
| X Alternate. Please specify 4' hog wire fencing topped with two strands burbed wire. | |
| 7 | |
| Netting: Subsection E of 19 15 17.11 NMAC (Applies to permanent pits and permanent open top tanks) | |
| Screen Netting Other | |
| Monthly inspections (If netting or screening is not physically feasible) | |
| 8 | |
| Signs: Subsection C of 19.15.17.11 NMAC | |
| 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers | |
| X Signed in compliance with 19.15.3.103 NMAC | |
| 9 | |
| Administrative Approvals and Exceptions: | |
| Justifications and/or demonstrations of equivalency are required. Please refer to 19 15 17 NATAC Grant Levil 19 17 | |
| touse theth a box if one or more of the following is requested, if not leave blank. | |
| X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office fo | |
| (Fencing BC) Liner) | r consideration of approval |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | |
| 0 | |
| Siting Criteria (regarding permitting): 19.15-17-10 NMAC | |
| Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the control of the c | |
| appropriate district office or may be considered and the | |
| consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria | |
| a thoughty sectil. | |
| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - IWATERS (attabase recents 1956). | |
| State of the state | Yes X No |
| Within ARD feet of a continuously flowing watercourse and 200 states | |
| lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site | Yes X No |
| Within 300 fact forms a new community of the proposed site | 1 |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial | Yes XNo |
| (Applies to temporary, emergency, or cavitation pits and below-grade tanks) | |
| Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ∏NA |
| Within 1000 feet from a permanent residence, school, hessited institution | - |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) | Yes No |
| Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | X NA |
| Within 500 horizonal feet of a private domestic force on | |
| Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. | Yes X No |
| | |
| of the State Lighter - TWATERS database search; Visual inspection (certification) of the approach | |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance dopted pursuant to NMSA 1978, Section 3-27-3, as amended | Yes XNo |
| Written confirmation or verification from the municipality. Written appropriate the second of the se | Yes XNo |
| | |
| US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | Yes X No |
| | |
| THE CHARTEST AND AN ADDRESS OF THE PARTY OF | Yes XNo |
| Table - Mining and Mineral Division | 1 |
| Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Vithin an unstable area. | □v |
| other an unstance area. | Yes XNo |
| /ithin an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Octety; Topographic map | Yes XNo |

| Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15.17.9 NMAC instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. |
|--|
| X Hydrogeologic Report (Below grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC |
| Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19:15-17-9 |
| X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17,10 NMAC |
| X Design Plan—based upon the appropriate requirements of 19 15.17,41 NMAC |
| X Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17.12 NMAC |
| X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC |
| Previously Approved Design (attach copy of design) API or Permit |
| Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. |
| Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15 17.9 |
| Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15.17.10 NMAC |
| Design Plan - hased upon the appropriate requirements of 19,15,17,11 NMAC |
| Operating and Maintenance Plan - based upon the appropriate requirements of 19 15.17.12 NMAC |
| Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC |
| Demission to Assess April 1997 |
| |
| |
| Description of Disc Popula A antique Chapter of the |
| Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC |
| Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. |
| Ilydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15-17.9 NMAC Siting Criteria Compliance Depress States above the second |
| Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment |
| Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC |
| Dike Protection and Structural Integrity Design, based upon the appropriate requirements of 19 15.17 11 NMAC |
| Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC |
| Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC |
| Quality Control/Quality Assurance Construction and Installation Plan |
| Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC |
| Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan |
| Emergency Response Plan |
| Oil Field Waste Stream Characterization |
| Monitoring and Inspection Plan |
| Erosion Control Plan |
| Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC |
| 14 |
| Proposed Closure: 19.15.17.13 NMAC |
| Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. |
| Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System |
| Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank) |
| Waste Removal (Closed-loop systems only) |
| On-site Closure Method (only for temporary pits and closed-loop systems) |
| In-place Burial On-site Trench |
| Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) |
| 15 |
| Waste Excavation and Removal Closure Plan Checklist: 19 15 17 13 NMAC Instructions: Each of the City in the Committee Committe |
| and and an are successful and an authorities. |
| X Protocols and Procedures - based upon the appropriate requirements of 19.15,17.13 NMAC |
| X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17 13 NMAC |
| [X] Disposal Pacility Name and Permit Number (for liquids, drilling fluids and drill cuttings) |
| = 1 Subsection H of 19 19 17 11 NMAC |
| X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC |
| X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17 13 NMAC |

| les . | · · · · · · · · · · · · · · · · · · · | |
|---|---|---|
| Waste Removal Closure For Closed-loon Systems That Hellan | Above Ground Steel Tanks or Haul-off Bins Only: (1945-1743 D NMAC) of liquids, drifting fluids and drift entings. Use affectment if more than to | e) ro hurlities |
| Disposal Facility Name: | Disposal Facility Permit #: | |
| Disposal Facility Name: | Disposal Facility Permit #: | |
| Will any of the proposed closed-loop system operations and a Yes (If yes, please provide the information | servicited activities occurs on on an amount has a trace | e service and operations? |
| Required for impacted areas which will not be used for future servi Soil Backfill and Cover Design Specification - based to Re-vegetation Plan - based upon the appropriate requi Site Reclamation Plan - based upon the appropriate rec | upon the appropriate requirements of Subsection H of 19.15.17.13 NM rements of Subsection I of 19.15.17.13 NMAC | IAC |
| for consideration of approval. Justifications and/or demonstrations of equ | in the closure plan. Recommendations of acceptable source material are provided by printe district office or may be considered an exception which must be submitted to a twalency are required. Please refer to 19.13.17 10 NMAC for guidance | elow, Requests regarding changes to the Santa Fe Environmental Bureau office |
| Ground water is less than 50 feet below the bottom of the buri | | Yes No |
| NM Office of the State Engineer - iWATERS database search | t; USGS: Data obtained from nearby wells | N/A |
| Ground water is between 50 and 100 feet below the bottom of | | Yes No |
| - NM Office of the State Engineer - iWATERS database search; | : USGS: Data obtained from nearby wells | N/A |
| Ground water is more than 100 feet below the bottom of the bi | uried waste. | Yes No |
| - NM Office of the State Engineer - iWATERS database search, | | ∐Yes ∐No |
| | of any other significant watercourse or lakebed, sinkhole, or playa lake | Yes No |
| - Topographic map: Visual inspection (certification) of the property | | |
| Within 300 feet from a permanent residence, school, hospital, institution - Visual inspection (certification) of the proposed site; Aerial pho | tion, or church in existence at the time of initial application, oto: satellite image | Yes No |
| -NM Office of the State Engineer - iWATERS database; Visual i | inspection (certification) of the proposed size | Yes No |
| Within incorporated municipal boundaries or within a defined municipal pursuant to NMSA 1978, Section 3 27-3, as amended. - Written confirmation or verification from the municipality; Writen | ipal fresh water well field covered under a municipal ordinance adopted | Yes No |
| Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic | | Yes No |
| Within the area overlying a subsurface mine. - Written confirantion or verification or map from the NM EMNI | | Yes No |
| Within an unstable area. | of Geology & Mineral Resources, USGS, NM Geological Society, | Yes No |
| Within a 100-year floodplain, - FEMA map | | Yes No |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instruby a check mark in the box, that the documents are attached. | uctions: Each of the following items must bee attached to the closur | e plan. Please indicate, |
| Siting Criteria Compliance Demonstrations - based upon | the appropriate requirements of 19.15.17.10 NM AC | |
| Proof of Surface Owner Notice - based upon the appropri | iate requirements of Subsection F of 19.15 17.13 NMAC | |
| Construction/Design Plan of Burial Trench (if applicable |) based upon the appropriate requirements of 19.15,17.11 NMAC | |
| Construction/Design Plan of Temporary Pit (for in place | burial of a drying pad) - based upon the appropriate requirements of 19 | 0.15.17.11.NMAC |
| Frotocots and Procedures - based upon the appropriate re- | quirements of 19.15.17.13 NMAC | TIPLITITING |
| Confirmation Sampling Plan (if applicable) - based upon | the appropriate requirements of Subsection F of 19.15.17.13 NMAC | |
| Waste Material Sampling Plan - based upon the appropria | tte requirements of Subsection F of 19.15.17.13 NMAC | |
| Disposal Facility Name and Permit Number (for liquids, d | frilling fluids and drill cuttings or in case on-site closure standards can | not be achieved) |
| 5011 Cover Design - based upon the appropriate requireme | ents of Subsection H of 19.15.17.13 NMAC | |
| Re-vegetation Plan - based upon the appropriate requirem Site Reclamation Plan - based upon the appropriate requir | ents of Subsection I of 19.15.17.13 NMAC | |
| and a short the abby object terior. | enteria of adosection C of 19.15.17.13 NMAC | |

| Name (Print): | information submitted with this application is | | St of my knowledge and belief. |
|---|--|---|--|
| | Crystal Tafoya | | Regulatory Technician |
| Signature: e mail address: | and la | Date: | 12/22/2008 |
| e man address | crystal tallova @corrocophillips co | Telephone | 505-326-9837 |
| | Permit Application (including closure pla | un) Closure Plan (only) | OCD Conditions (see attachment) |
| OCD Representative | Signature: | | Approval Date: |
| Title: | | OCD Permit | Number: |
| report is required to be si | ired within 60 days of closure completic re required to obtain an approved closure pla dimitted to the division within 60 days of the a s been obtained and the closure activities hav | in prior to implementing any closure a completion of the closure activities. F we been completed. | activities and submitting the closure report. The closure Please do not complete this section of the form until an pmpletion Dute: |
| 22 | | | mpeton parc. |
| Closure Method: Waste Excavation If different from a | and Removal On-site Closure Mo | ethod Alternative Closure Met | thod Waste Removal (Closed-loop systems only) |
| Closure Report Regardic Instructions: Please ident were utilized. | | Systems That Utilize Above Groundids, drilling fluids and drill cuttings | d Steel Tunks or Haul-off Bins Only: were disposed. Use attachment if more than two facilities |
| Disposal Facility Name | | Disposal Facility Pem | nit Number |
| Disposal Facility Name Were the closed loop o | | Disposal Facility Perm | nit Number |
| Yes (If yes, please | ystem operations and associated activities peri demonstrate complilane to the items below) | formed on or in areas that will not be | used for future service and opeartions? |
| | areas which will not be used for future service | | |
| Site Reclamation (| Photo Documentation) | and operations. | |
| | d Cover Installation | | |
| Re-vegetation App | lication Rates and Seeding Technique | | |
| | chment Checklist: Instructions: Each of the test of th | he following items must be attached | to the closure report. Please indicate, by a check mark in |
| | tice (required for on-site closure) | | |
| Plot Plan (for on- | ite closures and temporary pits) | | |
| | ppling Analytical Results (if applicable) | | |
| Waste Material Sa | ampling Analytical Results (if applicable) | | |
| | Name and Permit Number | | |
| Soil Backfilling ar | d Cover Installation | | |
| | olication Rates and Seeding Technique | | |
| Re-vegetation App | | | |
| Re-vegetation App Site Reclamation (| | | NAD 1927 1983 |
| Re-vegetation App | ocation: Latitude: | Longitude: | NAD [1927 [1983 |
| Re-vegetation App | | Longitude: | 1927 1983 |
| Re-vegetation App Site Reclamation (On-site Closure Le | ication: | history paragraph to the control of | |
| Re-vegetation App Site Reclamation (On-site Closure Le | ication: | history paragraph to the control of | |
| Re-vegetation App Site Reclamation (On-site Closure Le perator Closure Certife ereby certify that the info- e closure complies with all | ication: | losure report is ture, accurate and coms specified in the approved clasure p | |

New Mexico Office of the State Engineer POD Reports and Downloads

| Township: 26N Range: 06W Sections: |
|---|
| NAD27 X: Y: Zone: Search Radius: |
| County: Basin: Number: Suffix: |
| Owner Name: (First) (Last) C Non-Domestic C Domestic C All |
| POD / Surface Data Report Avg Depth to Water Report Water Column Report |
| Clear Form iWATERS Menu Help |
| |
| WATER COLUMN REPORT 08/20/2008 (quarters are 1=NW 2=NE 3=SW 4=SE) |

Depth

Well

Depth

Water

Water (in

Column

(quarters are biggest to smallest)

Tws Rng Sec q q q

No Records found, try again

POD Number

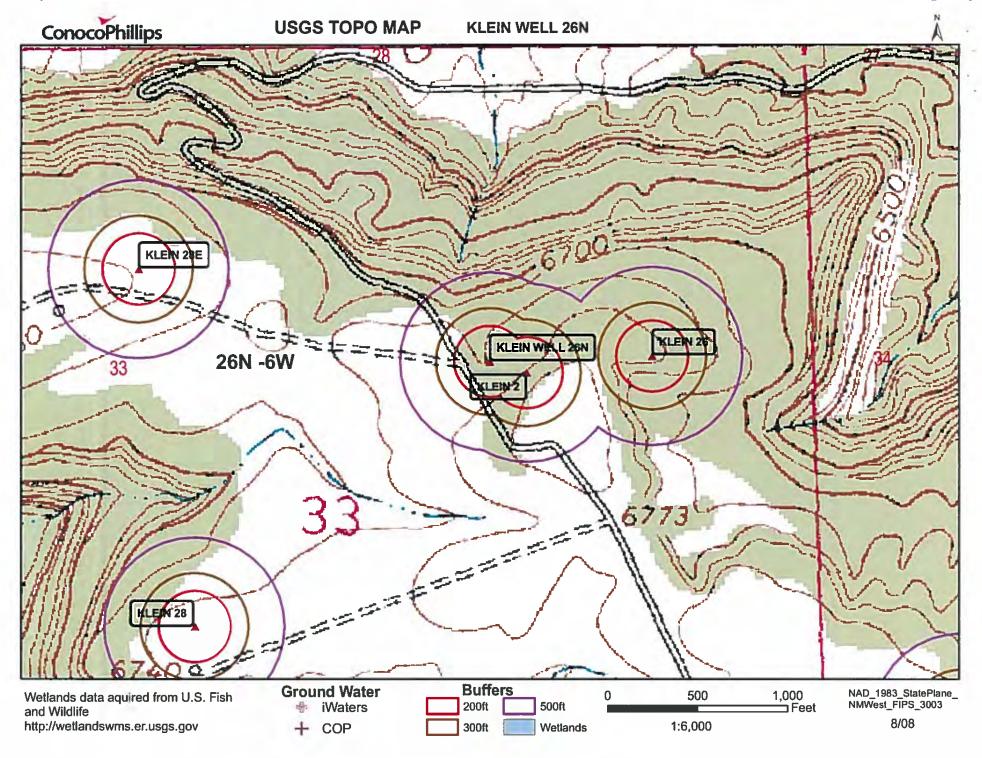
New Mexico Office of the State Engineer

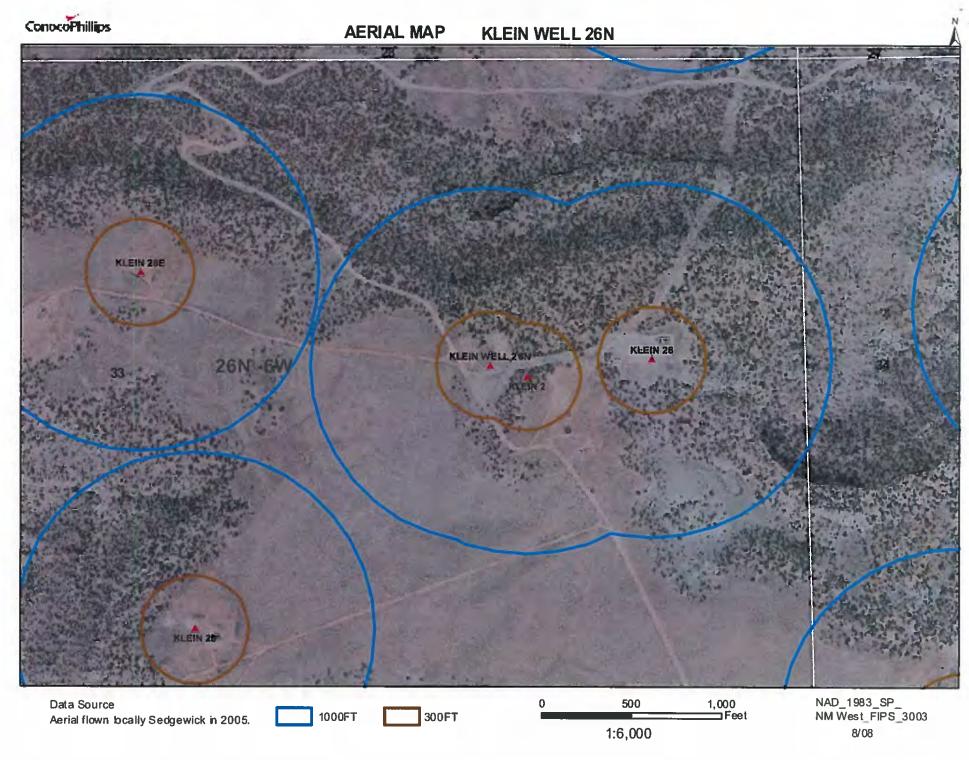
Page 1 of 1

New Mexico Office of the State Engineer POD Reports and Downloads

| Towns | hip: 25N Ra | inge: 06W | Sections: | | | | | |
|-------------------------|--------------------------|-------------|----------------|-------------|-----------|-----------|---------|-----|
| NAD27 | X: | Y: | Zone: | Sea | rch Radiu | s: | | |
| County: | Basin: | | | Number: | - | Suffix: | | |
| Owner Name: (First | | (Last) | | C Non- | Domestic | ○ Dom | estic 🕝 | All |
| POD / Surface | Data Report | Av | Depth to Water | er Report | Wat | er Column | Report | |
| | CI | ear Form | iWATERS N | 1enu Help | | | | |
| | | | | | | | | j |
| | | WATER | COLUMN REP | ORT 08/20/2 | 800 | | | |
| (| arters are | 1=NW 2=NE | 3=SW 4=SE) | | | | | |
| — | arters are | | | | Depth | Depth | Water | (in |
| POD Number | | ec a a a | Zone | x Y | Well | Water | Column | |
| SJ 00201 | _ 25N 06W 0 25N 06W 2 | | | | 1346 | 500 80 | 846 | |
| SJ 00681 SJ 00681 12 | _ 25N 06W 2 25N 06W 3 | | | | 435 | ου | | |

Record Count: 3

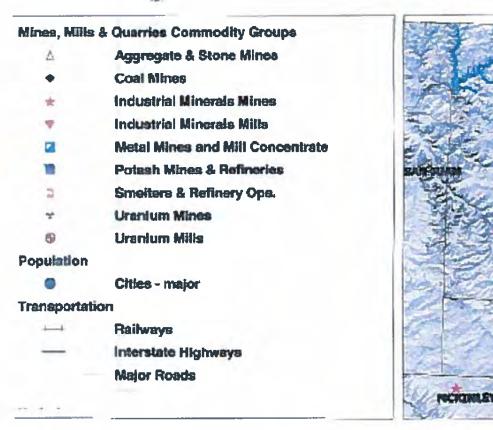


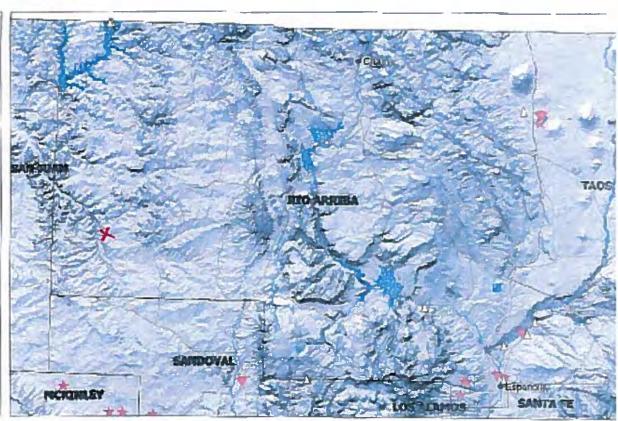


Mines, Mills and Quarries Web Map

KLEIN WELL 26N

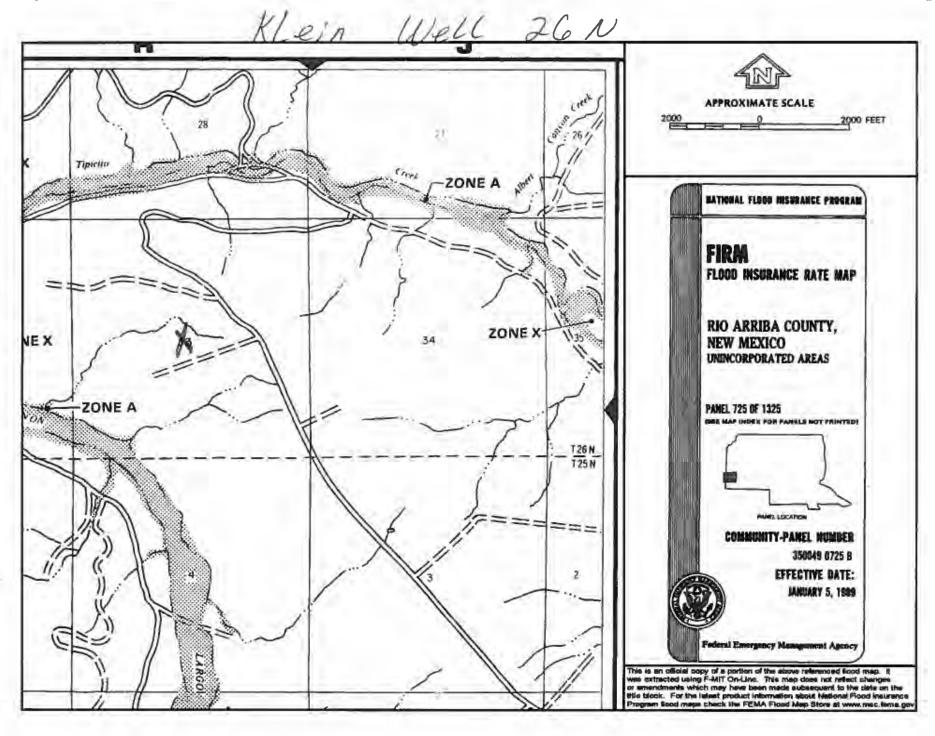
Unit Letter: , Section: 33, Town: 26N, Range: 6W











KLEIN WELL 26N

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'KLEIN WELL 26N', which is located at 36.445299 degrees North latitude and 107.46942 degrees West longitude. This location is located on the Gonzales Mesa 7.5' USGS topographic quadrangle. This location is in section 33 of Township 26 North Range 6 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Nageezi, located 19.6 miles to the southwest. The nearest large town (population greater than 10,000) is Farmington, located 45.5 miles to the northwest (National Atlas). The nearest highway is State Highway 403, located 3.1 miles to the south. The location is on BLM land and is 3,692 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Blanco Canyon. New Mexico, Sub-basin. This location is located 2058 meters or 6750 feet above sea level and receives 10.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 393 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 664 feet to the northwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is named Tapicito Creek and is 2,758 feet to the north. The nearest water body is 6,187 feet to the southeast. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 7,666 feet to the south. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 2,473 feet to the north. The nearest wetland is a 412.7 acre Ravine located 2,702 feet to the north. The slope at this location is 3 degrees to the northwest as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION--Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Vessilla-Menefee-Orlie complex, 1 to 30 percent slopes' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 27.8 miles to the north as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

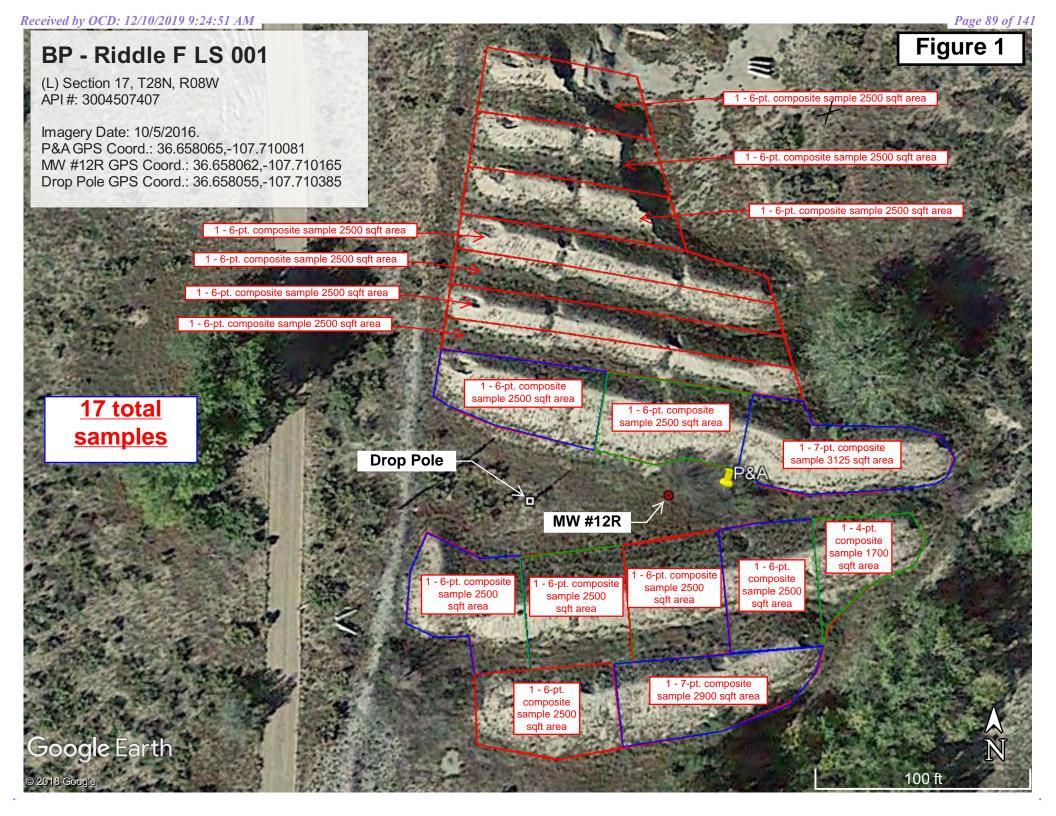
Regional Hydrogeological context:

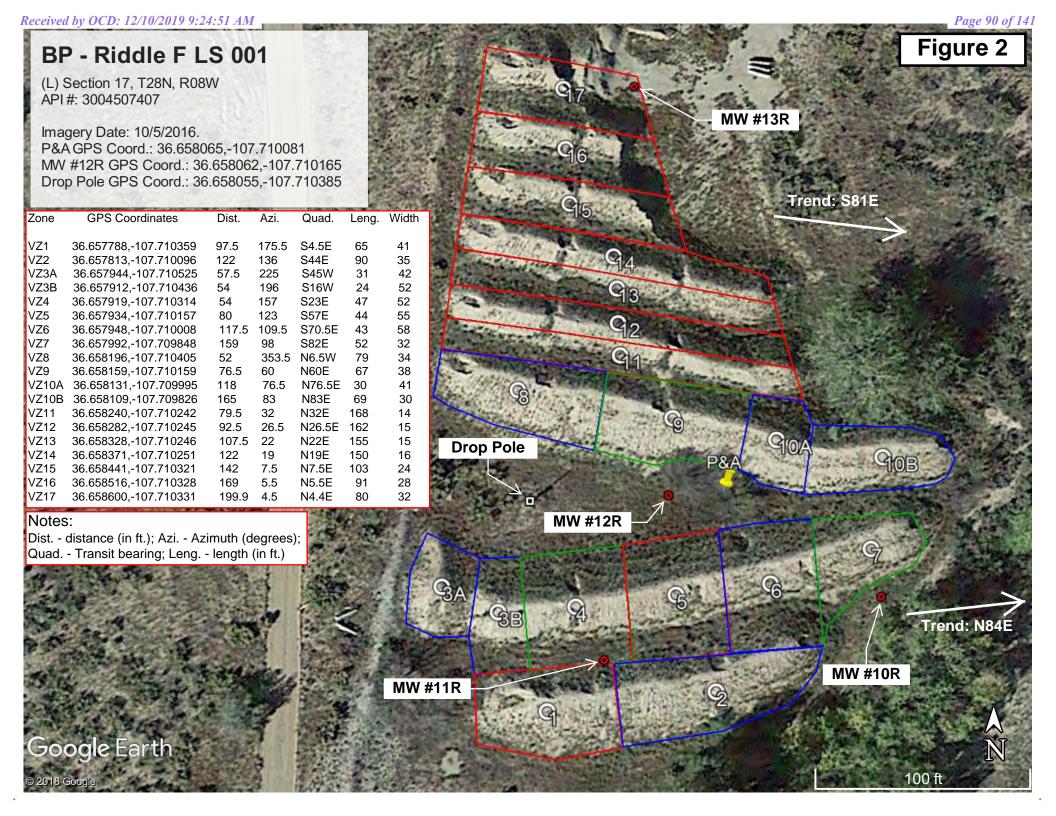
The San Jose Formation of Eccene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line. The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use. The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

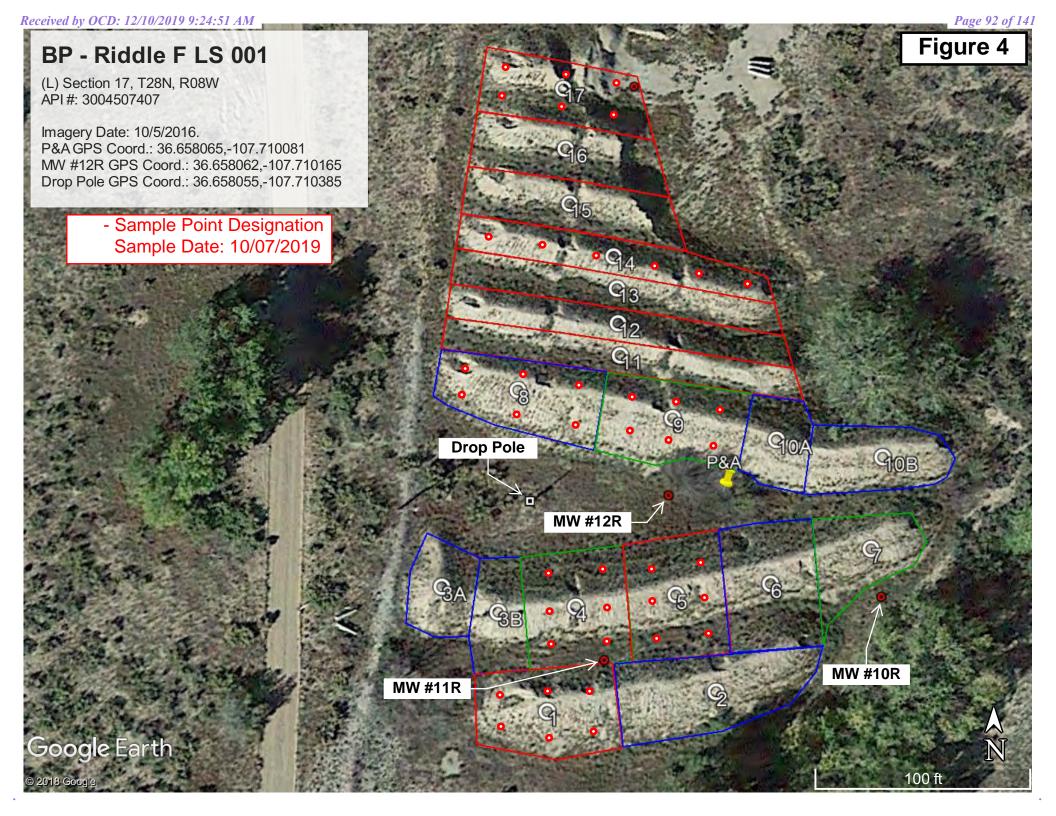
Vadose Zone

Confirmation



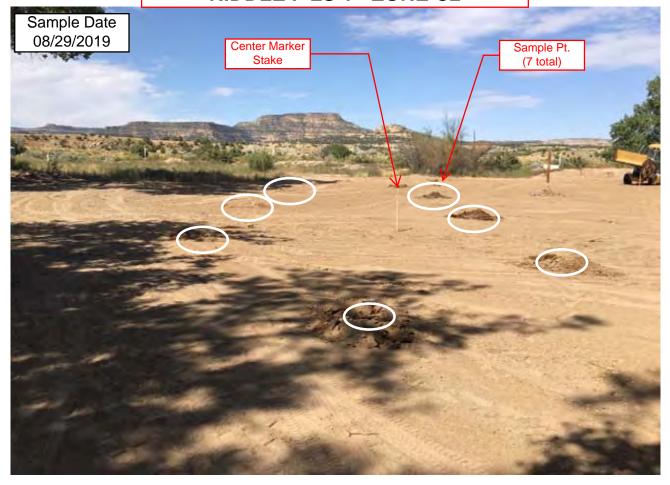




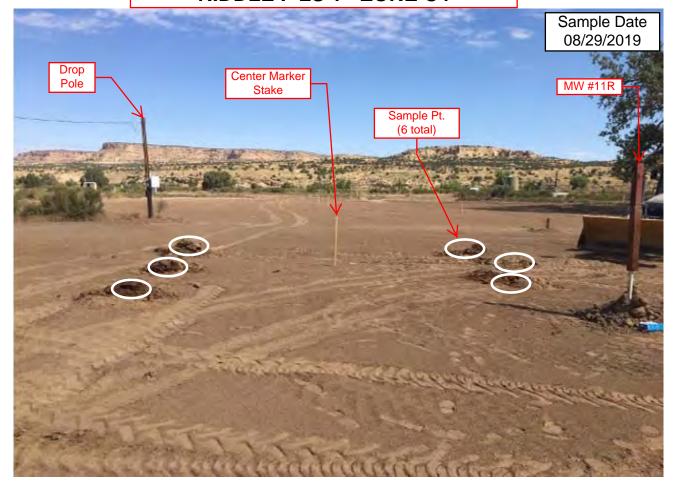




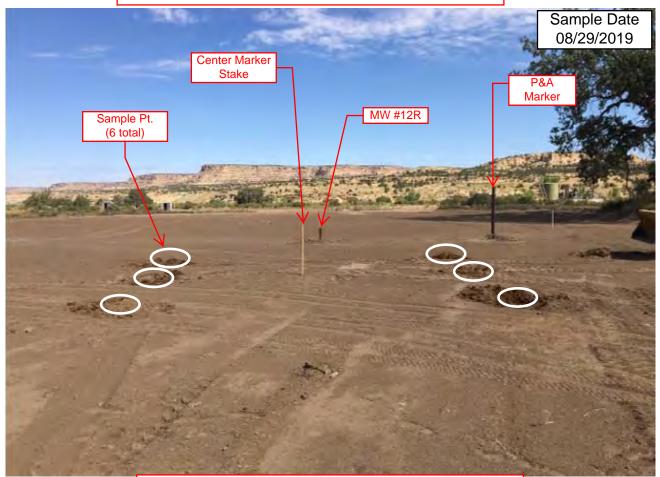
RIDDLE F LS 1 - ZONE C2



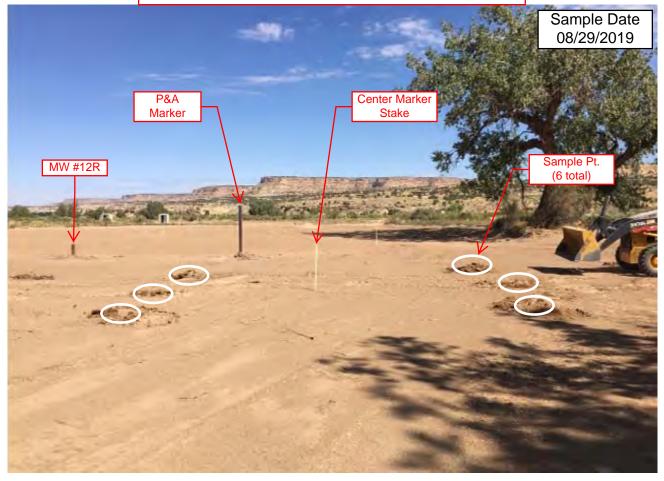


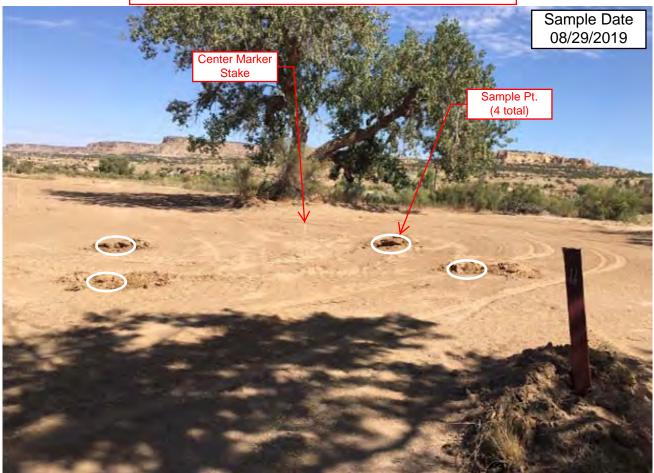


Received by OCD: 12/10/2019 9:24:51 AM RIDDLE F LS 1 - ZONE C5

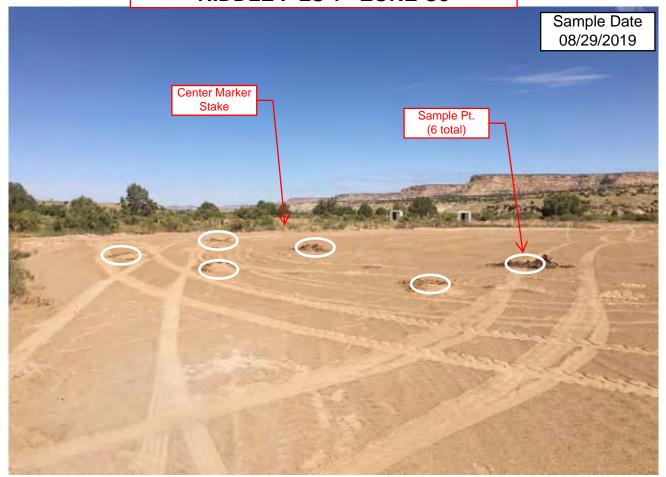


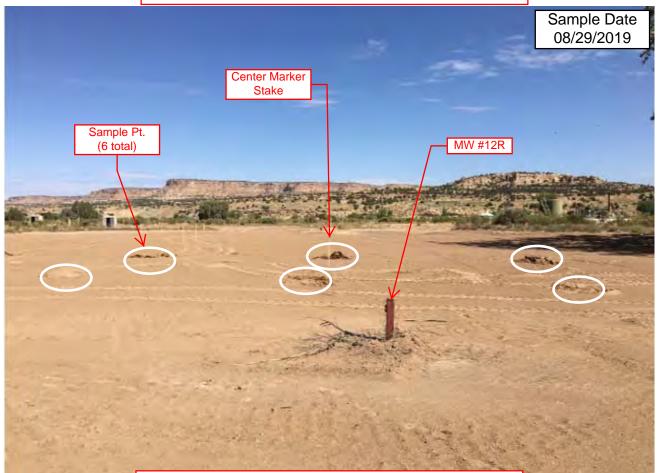
RIDDLE F LS 1 - ZONE C6

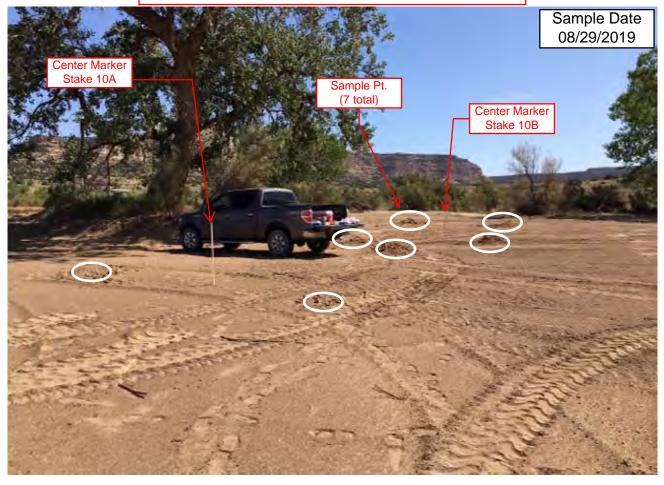




RIDDLE F LS 1 - ZONE C8









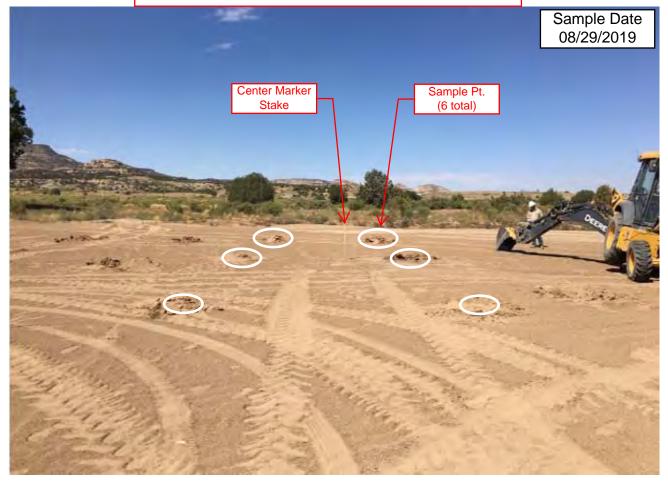


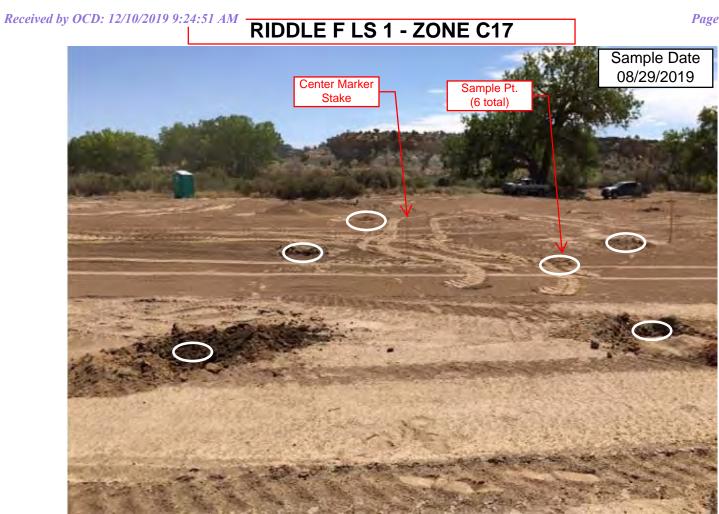
Sample Date 08/29/2019 Center Marker Stake Sample Pt. (6 total collected)





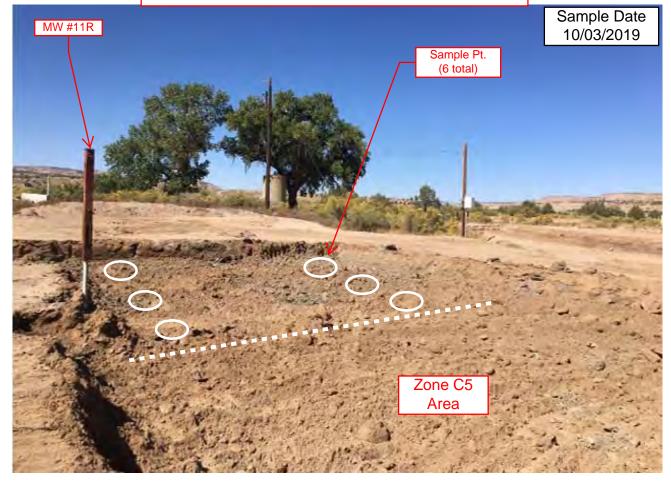
RIDDLE F LS 1 - ZONE C16

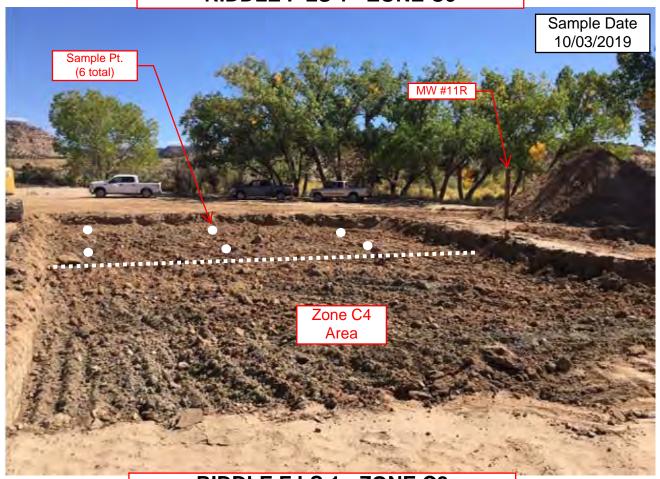


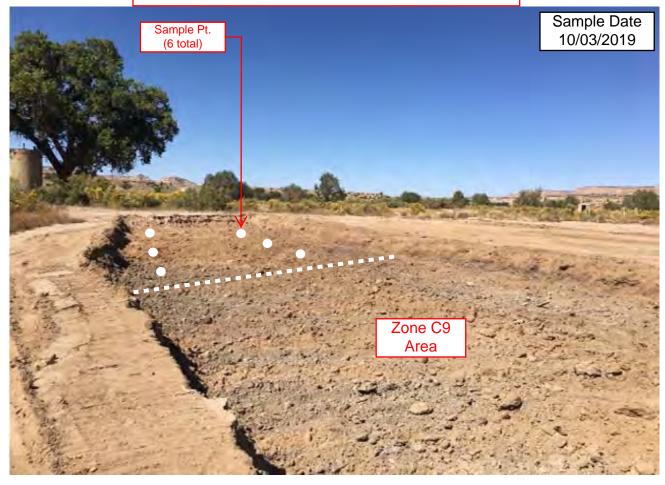
















RIDDLE F LS 1 - ZONE C17



Analytical Report

Lab Order 1908I75

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SP-VZ #1

 Project:
 RIDDLE F LS 1
 Collection Date: 8/29/2019 10:36:00 AM

 Lab ID:
 1908I75-001
 Matrix: SOIL
 Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | 820 | 60 | mg/Kg | 20 | 9/7/2019 10:59:42 AM | 47324 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst | : BRM |
| Diesel Range Organics (DRO) | 13 | 9.5 | mg/Kg | 1 | 9/5/2019 9:42:55 PM | 47254 |
| Motor Oil Range Organics (MRO) | 88 | 48 | mg/Kg | 1 | 9/5/2019 9:42:55 PM | 47254 |
| Surr: DNOP | 108 | 70-130 | %Rec | 1 | 9/5/2019 9:42:55 PM | 47254 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 9/5/2019 12:24:30 PM | 47241 |
| Surr: BFB | 94.3 | 77.4-118 | %Rec | 1 | 9/5/2019 12:24:30 PM | 47241 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 9/5/2019 12:24:30 PM | 47241 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 12:24:30 PM | 47241 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 12:24:30 PM | 47241 |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 9/5/2019 12:24:30 PM | 47241 |
| Surr: 4-Bromofluorobenzene | 83.1 | 80-120 | %Rec | 1 | 9/5/2019 12:24:30 PM | 47241 |

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

Qualifiers:

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

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

Page 1 of 21

Analytical Report
Lab Order 1910296

Date Reported: 10/7/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Riddle F LS 1

Lab ID: 1910296-001

Client Sample ID: SP-VZ#1(x)

Collection Date: 10/3/2019 12:11:00 PM Received Date: 10/4/2019 9:30:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | CJS |
| Chloride | 360 | 60 | mg/Kg | 20 | 10/4/2019 11:58:12 AM | 47944 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst: | BRM |
| Diesel Range Organics (DRO) | ND | 8.8 | mg/Kg | 1 | 10/4/2019 10:40:13 AM | 47935 |
| Motor Oil Range Organics (MRO) | ND | 44 | mg/Kg | 1 | 10/4/2019 10:40:13 AM | 47935 |
| Surr: DNOP | 108 | 70-130 | %Rec | 1 | 10/4/2019 10:40:13 AM | 47935 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: | NSB |
| Gasoline Range Organics (GRO) | ND | 3.6 | mg/Kg | 1 | 10/4/2019 10:39:56 AM | 47919 |
| Surr: BFB | 94.9 | 77.4-118 | %Rec | 1 | 10/4/2019 10:39:56 AM | 47919 |

Matrix: SOIL

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

Qualifiers:

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

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

Page 1 of 10

Analytical Report

Lab Order 1908I75

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: RIDDLE F LS 1

Lab ID: 1908I75-002

Client Sample ID: SP-VZ #2

Collection Date: 8/29/2019 10:41:00 AM Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | 310 | 60 | mg/Kg | 20 | 9/7/2019 11:12:06 AM | 47324 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.4 | mg/Kg | 1 | 9/5/2019 10:07:31 PM | 47254 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 9/5/2019 10:07:31 PM | 47254 |
| Surr: DNOP | 109 | 70-130 | %Rec | 1 | 9/5/2019 10:07:31 PM | 47254 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 9/5/2019 9:47:34 AM | 47241 |
| Surr: BFB | 89.6 | 77.4-118 | %Rec | 1 | 9/5/2019 9:47:34 AM | 47241 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 9/5/2019 9:47:34 AM | 47241 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 9:47:34 AM | 47241 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 9:47:34 AM | 47241 |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 9/5/2019 9:47:34 AM | 47241 |
| Surr: 4-Bromofluorobenzene | 92.1 | 80-120 | %Rec | 1 | 9/5/2019 9:47:34 AM | 47241 |

Matrix: SOIL

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

Qualifiers:

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

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

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Lab Order 1908I75

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SP-VZ #3 **Project:** RIDDLE F LS 1 Collection Date: 8/29/2019 10:45:00 AM

Lab ID: 1908I75-003 Matrix: SOIL Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL (| Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | 460 | 61 | mg/Kg | 20 | 9/7/2019 11:24:30 AM | 47324 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | : BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 9/6/2019 1:09:26 PM | 47288 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 9/6/2019 1:09:26 PM | 47288 |
| Surr: DNOP | 122 | 70-130 | %Rec | 1 | 9/6/2019 1:09:26 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 9/5/2019 2:52:30 PM | 47276 |
| Surr: BFB | 91.4 | 77.4-118 | %Rec | 1 | 9/5/2019 2:52:30 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 9/5/2019 2:52:30 PM | 47276 |
| Toluene | ND | 0.048 | mg/Kg | 1 | 9/5/2019 2:52:30 PM | 47276 |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 9/5/2019 2:52:30 PM | 47276 |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 9/5/2019 2:52:30 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 93.7 | 80-120 | %Rec | 1 | 9/5/2019 2:52:30 PM | 47276 |

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

Qualifiers:

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

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

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Lab Order 1908175

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: RIDDLE F LS 1

Lab ID: 1908I75-004

Client Sample ID: SP-VZ #4

Collection Date: 8/29/2019 10:49:00 AM Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | 870 | 60 | mg/Kg | 20 | 9/7/2019 12:26:33 PM | 47324 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst | : BRM |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 9/6/2019 1:33:43 PM | 47288 |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 9/6/2019 1:33:43 PM | 47288 |
| Surr: DNOP | 108 | 70-130 | %Rec | 1 | 9/6/2019 1:33:43 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 9/5/2019 4:03:04 PM | 47276 |
| Surr: BFB | 88.0 | 77.4-118 | %Rec | 1 | 9/5/2019 4:03:04 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 9/5/2019 4:03:04 PM | 47276 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 4:03:04 PM | 47276 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 4:03:04 PM | 47276 |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 9/5/2019 4:03:04 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 90.0 | 80-120 | %Rec | 1 | 9/5/2019 4:03:04 PM | 47276 |

Matrix: SOIL

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

Qualifiers:

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

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

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Lab Order 1910296

Date Reported: 10/7/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Riddle F LS 1

Lab ID: 1910296-002

Client Sample ID: SP-VZ#4(x)

Collection Date: 10/3/2019 12:14:00 PM

Received Date: 10/4/2019 9:30:00 AM

| Analyses | Result | RL Qı | ual Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-------|-----------|----|----------------------|----------|
| EPA METHOD 300.0: ANIONS | | | | | Analy | yst: CJS |
| Chloride | 380 | 60 | mg/Kg | 20 | 10/4/2019 12:10:37 F | PM 47944 |

Matrix: SOIL

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

Qualifiers:

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

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

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Lab Order 1908I75

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SP-VZ #5

 Project:
 RIDDLE F LS 1
 Collection Date: 8/29/2019 10:52:00 AM

 Lab ID:
 1908I75-005
 Matrix: SOIL
 Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analys | : CJS |
| Chloride | 660 | 60 | mg/Kg | 20 | 9/7/2019 12:38:57 PM | 47324 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | : BRM |
| Diesel Range Organics (DRO) | 10 | 9.7 | mg/Kg | 1 | 9/6/2019 1:58:10 PM | 47288 |
| Motor Oil Range Organics (MRO) | 84 | 49 | mg/Kg | 1 | 9/6/2019 1:58:10 PM | 47288 |
| Surr: DNOP | 114 | 70-130 | %Rec | 1 | 9/6/2019 1:58:10 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 9/5/2019 6:00:43 PM | 47276 |
| Surr: BFB | 87.4 | 77.4-118 | %Rec | 1 | 9/5/2019 6:00:43 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.023 | mg/Kg | 1 | 9/5/2019 6:00:43 PM | 47276 |
| Toluene | ND | 0.046 | mg/Kg | 1 | 9/5/2019 6:00:43 PM | 47276 |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 9/5/2019 6:00:43 PM | 47276 |
| Xylenes, Total | ND | 0.093 | mg/Kg | 1 | 9/5/2019 6:00:43 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 89.4 | 80-120 | %Rec | 1 | 9/5/2019 6:00:43 PM | 47276 |

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

Qualifiers:

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

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

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Lab Order 1910296

Date Reported: 10/7/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SP-VZ#5(x)

Project: Riddle F LS 1 Collection Date: 10/3/2019 12:17:00 PM

Lab ID: 1910296-003 **Matrix:** SOIL **Received Date:** 10/4/2019 9:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-------|----------|----|----------------------|----------|
| EPA METHOD 300.0: ANIONS | | | | | Analy | st: CJS |
| Chloride | 260 | 60 | mg/Kg | 20 | 10/4/2019 12:23:01 F | PM 47944 |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Lab Order 1908I75

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SP-VZ #6

 Project:
 RIDDLE F LS 1
 Collection Date: 8/29/2019 10:56:00 AM

 Lab ID:
 1908I75-006
 Matrix: SOIL
 Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | 440 | 60 | mg/Kg | 20 | 9/7/2019 12:51:22 PM | 47324 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst | : BRM |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 9/6/2019 4:44:56 PM | 47288 |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 9/6/2019 4:44:56 PM | 47288 |
| Surr: DNOP | 101 | 70-130 | %Rec | 1 | 9/6/2019 4:44:56 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 9/5/2019 6:24:13 PM | 47276 |
| Surr: BFB | 89.3 | 77.4-118 | %Rec | 1 | 9/5/2019 6:24:13 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 9/5/2019 6:24:13 PM | 47276 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 6:24:13 PM | 47276 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 6:24:13 PM | 47276 |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 9/5/2019 6:24:13 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 91.3 | 80-120 | %Rec | 1 | 9/5/2019 6:24:13 PM | 47276 |

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

Qualifiers:

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

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

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Lab Order 1908I75

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: RIDDLE F LS 1

Lab ID: 1908I75-007

Client Sample ID: SP-VZ #7

Collection Date: 8/29/2019 10:58:00 AM

Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|---------------------|---------------|
| EPA METHOD 300.0: ANIONS | | | | | Analys | t: CJS |
| Chloride | 310 | 60 | mg/Kg | 20 | 9/7/2019 1:28:35 PM | 47324 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analys | t: BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 9/6/2019 5:07:18 PM | 47288 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 9/6/2019 5:07:18 PM | 47288 |
| Surr: DNOP | 100 | 70-130 | %Rec | 1 | 9/6/2019 5:07:18 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analys | t: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 9/5/2019 6:47:40 PM | 47276 |
| Surr: BFB | 95.4 | 77.4-118 | %Rec | 1 | 9/5/2019 6:47:40 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analys | t: NSB |
| Benzene | ND | 0.023 | mg/Kg | 1 | 9/5/2019 6:47:40 PM | 47276 |
| Toluene | ND | 0.047 | mg/Kg | 1 | 9/5/2019 6:47:40 PM | 47276 |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 9/5/2019 6:47:40 PM | 47276 |
| Xylenes, Total | ND | 0.093 | mg/Kg | 1 | 9/5/2019 6:47:40 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 98.3 | 80-120 | %Rec | 1 | 9/5/2019 6:47:40 PM | 47276 |

Matrix: SOIL

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

Qualifiers:

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

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

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Lab Order 1908I75

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: RIDDLE F LS 1

Lab ID: 1908I75-008

Client Sample ID: SP-VZ #8

Collection Date: 8/29/2019 11:02:00 AM Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|---------------------|---------------|
| EPA METHOD 300.0: ANIONS | | | | | Analys | t: CJS |
| Chloride | 850 | 60 | mg/Kg | 20 | 9/7/2019 1:40:59 PM | 47324 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analys | t: BRM |
| Diesel Range Organics (DRO) | ND | 9.2 | mg/Kg | 1 | 9/6/2019 5:29:32 PM | 47288 |
| Motor Oil Range Organics (MRO) | 55 | 46 | mg/Kg | 1 | 9/6/2019 5:29:32 PM | 47288 |
| Surr: DNOP | 102 | 70-130 | %Rec | 1 | 9/6/2019 5:29:32 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analys | t: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 9/5/2019 7:11:06 PM | 47276 |
| Surr: BFB | 88.6 | 77.4-118 | %Rec | 1 | 9/5/2019 7:11:06 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analys | t: NSB |
| Benzene | ND | 0.025 | mg/Kg | 1 | 9/5/2019 7:11:06 PM | 47276 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 9/5/2019 7:11:06 PM | 47276 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 9/5/2019 7:11:06 PM | 47276 |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 9/5/2019 7:11:06 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 91.0 | 80-120 | %Rec | 1 | 9/5/2019 7:11:06 PM | 47276 |

Matrix: SOIL

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

Qualifiers:

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

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

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Lab Order 1910296

Date Reported: 10/7/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project:

Lab ID: 1910296-004

Riddle F LS 1

Matrix: SOIL

Client Sample ID: SP-VZ#8(x)

Collection Date: 10/3/2019 12:20:00 PM Received Date: 10/4/2019 9:30:00 AM

| Analyses | Result | RL Qu | ual Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-------|-----------|----|----------------------|----------|
| EPA METHOD 300.0: ANIONS | | | | | Analy | /st: CJS |
| Chloride | 300 | 60 | mg/Kg | 20 | 10/4/2019 12:35:25 F | PM 47944 |

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

Qualifiers:

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

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

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Lab Order 1908I75

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: RIDDLE F LS 1

Lab ID: 1908I75-009

Client Sample ID: SP-VZ #9

Collection Date: 8/29/2019 11:06:00 AM Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | 780 | 59 | mg/Kg | 20 | 9/8/2019 12:47:49 PM | 47337 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | : BRM |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 9/6/2019 5:51:52 PM | 47288 |
| Motor Oil Range Organics (MRO) | 92 | 49 | mg/Kg | 1 | 9/6/2019 5:51:52 PM | 47288 |
| Surr: DNOP | 105 | 70-130 | %Rec | 1 | 9/6/2019 5:51:52 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 9/5/2019 7:34:31 PM | 47276 |
| Surr: BFB | 87.8 | 77.4-118 | %Rec | 1 | 9/5/2019 7:34:31 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.025 | mg/Kg | 1 | 9/5/2019 7:34:31 PM | 47276 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 7:34:31 PM | 47276 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 7:34:31 PM | 47276 |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 9/5/2019 7:34:31 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 90.2 | 80-120 | %Rec | 1 | 9/5/2019 7:34:31 PM | 47276 |

Matrix: SOIL

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

Qualifiers:

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

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

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Lab Order 1910296

Date Reported: 10/7/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SP-VZ#9(x)

 Project:
 Riddle F LS 1
 Collection Date: 10/3/2019 12:23:00 PM

 Lab ID:
 1910296-005
 Matrix: SOIL
 Received Date: 10/4/2019 9:30:00 AM

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

Qualifiers:

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

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

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Lab Order 1908I75

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: RIDDLE F LS 1

Lab ID: 1908I75-010

Matrix: SOIL

Collection Date: 8/29/2019 11:10:00 AM

Client Sample ID: SP-VZ #10

Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|---------------------|---------------|
| EPA METHOD 300.0: ANIONS | | | | | Analys | t: CJS |
| Chloride | 290 | 60 | mg/Kg | 20 | 9/8/2019 1:00:13 PM | 47337 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analys | t: BRM |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 9/6/2019 6:14:07 PM | 47288 |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 9/6/2019 6:14:07 PM | 47288 |
| Surr: DNOP | 122 | 70-130 | %Rec | 1 | 9/6/2019 6:14:07 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analys | t: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 9/5/2019 7:57:54 PM | 47276 |
| Surr: BFB | 88.7 | 77.4-118 | %Rec | 1 | 9/5/2019 7:57:54 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analys | t: NSB |
| Benzene | ND | 0.023 | mg/Kg | 1 | 9/5/2019 7:57:54 PM | 47276 |
| Toluene | ND | 0.047 | mg/Kg | 1 | 9/5/2019 7:57:54 PM | 47276 |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 9/5/2019 7:57:54 PM | 47276 |
| Xylenes, Total | ND | 0.093 | mg/Kg | 1 | 9/5/2019 7:57:54 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 90.1 | 80-120 | %Rec | 1 | 9/5/2019 7:57:54 PM | 47276 |

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

Qualifiers:

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

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

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Lab Order 1908I75

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: RIDDLE F LS 1 **Lab ID:** 1908I75-011

Collection Potes \$2/20/2010 1

Collection Date: 8/29/2019 11:19:00 AM Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|---------------------|---------------|
| EPA METHOD 300.0: ANIONS | | | | | Analys | t: CJS |
| Chloride | 520 | 60 | mg/Kg | 20 | 9/8/2019 1:12:38 PM | 47337 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analys | t: BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 9/6/2019 6:36:36 PM | 47288 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 9/6/2019 6:36:36 PM | 47288 |
| Surr: DNOP | 102 | 70-130 | %Rec | 1 | 9/6/2019 6:36:36 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analys | t: NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 9/5/2019 8:21:18 PM | 47276 |
| Surr: BFB | 87.6 | 77.4-118 | %Rec | 1 | 9/5/2019 8:21:18 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analys | t: NSB |
| Benzene | ND | 0.023 | mg/Kg | 1 | 9/5/2019 8:21:18 PM | 47276 |
| Toluene | ND | 0.046 | mg/Kg | 1 | 9/5/2019 8:21:18 PM | 47276 |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 9/5/2019 8:21:18 PM | 47276 |
| Xylenes, Total | ND | 0.093 | mg/Kg | 1 | 9/5/2019 8:21:18 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 89.6 | 80-120 | %Rec | 1 | 9/5/2019 8:21:18 PM | 47276 |

Matrix: SOIL

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

Qualifiers:

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

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

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Lab Order 1908I75

Client Sample ID: SP-VZ #12

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: RIDDLE F LS 1 Collection Date: 8/29/2019 11:24:00 AM

Lab ID: 1908I75-012 **Matrix:** SOIL **Received Date:** 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|---------------------------------------|--------|----------|------------|----|---------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | :: CJS |
| Chloride | 560 | 60 | mg/Kg | 20 | 9/8/2019 1:25:02 PM | 47337 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst | : BRM |
| Diesel Range Organics (DRO) | ND | 9.0 | mg/Kg | 1 | 9/6/2019 6:59:00 PM | 47288 |
| Motor Oil Range Organics (MRO) | 50 | 45 | mg/Kg | 1 | 9/6/2019 6:59:00 PM | 47288 |
| Surr: DNOP | 104 | 70-130 | %Rec | 1 | 9/6/2019 6:59:00 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | :: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 9/5/2019 8:44:44 PM | 47276 |
| Surr: BFB | 87.5 | 77.4-118 | %Rec | 1 | 9/5/2019 8:44:44 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.025 | mg/Kg | 1 | 9/5/2019 8:44:44 PM | 47276 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 8:44:44 PM | 47276 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 8:44:44 PM | 47276 |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 9/5/2019 8:44:44 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 90.2 | 80-120 | %Rec | 1 | 9/5/2019 8:44:44 PM | 47276 |

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

Qualifiers:

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

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

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Lab Order 1908175

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: RIDDLE F LS 1

Lab ID: 1908I75-013

Client Sample ID: SP-VZ #13

Collection Date: 8/29/2019 11:30:00 AM Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|---------------------|---------------|
| EPA METHOD 300.0: ANIONS | | | | | Analys | t: CJS |
| Chloride | 450 | 60 | mg/Kg | 20 | 9/8/2019 1:37:26 PM | 47337 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analys | t: BRM |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 9/6/2019 7:21:32 PM | 47288 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 9/6/2019 7:21:32 PM | 47288 |
| Surr: DNOP | 111 | 70-130 | %Rec | 1 | 9/6/2019 7:21:32 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analys | t: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 9/5/2019 9:08:03 PM | 47276 |
| Surr: BFB | 85.6 | 77.4-118 | %Rec | 1 | 9/5/2019 9:08:03 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analys | t: NSB |
| Benzene | ND | 0.025 | mg/Kg | 1 | 9/5/2019 9:08:03 PM | 47276 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 9/5/2019 9:08:03 PM | 47276 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 9/5/2019 9:08:03 PM | 47276 |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 9/5/2019 9:08:03 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 88.2 | 80-120 | %Rec | 1 | 9/5/2019 9:08:03 PM | 47276 |

Matrix: SOIL

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

Qualifiers:

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

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

Page 13 of 21

Lab Order **1908I75**

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SP-VZ #14

 Project:
 RIDDLE F LS 1
 Collection Date: 8/29/2019 11:34:00 AM

 Lab ID:
 1908I75-014
 Matrix: SOIL
 Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|---------------------|---------------|
| EPA METHOD 300.0: ANIONS | | | | | Analys | t: CJS |
| Chloride | 610 | 60 | mg/Kg | 20 | 9/8/2019 1:49:51 PM | 47337 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analys | t: BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 9/6/2019 7:43:54 PM | 47288 |
| Motor Oil Range Organics (MRO) | 99 | 47 | mg/Kg | 1 | 9/6/2019 7:43:54 PM | 47288 |
| Surr: DNOP | 124 | 70-130 | %Rec | 1 | 9/6/2019 7:43:54 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analys | t: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 9/5/2019 9:31:28 PM | 47276 |
| Surr: BFB | 85.1 | 77.4-118 | %Rec | 1 | 9/5/2019 9:31:28 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analys | t: NSB |
| Benzene | ND | 0.025 | mg/Kg | 1 | 9/5/2019 9:31:28 PM | 47276 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 9:31:28 PM | 47276 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 9:31:28 PM | 47276 |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 9/5/2019 9:31:28 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 87.6 | 80-120 | %Rec | 1 | 9/5/2019 9:31:28 PM | 47276 |

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

Qualifiers:

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

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

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Lab Order 1910296

Date Reported: 10/7/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SP-VZ#14(x)

Project: Riddle F LS 1 Collection Date: 10/3/2019 12:26:00 PM

Lab ID: 1910296-006 **Matrix:** SOIL **Received Date:** 10/4/2019 9:30:00 AM

| Analyses | Result | RL Qu | ıal Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-------|-----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS | | | | | Analy | st: CJS |
| Chloride | 360 | 60 | mg/Kg | 20 | 10/5/2019 12:06:57 A | M 47944 |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Lab Order 1908I75

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: RIDDLE F LS 1 **Lab ID:** 1908I75-015

Matrix: SOIL

Client Sample ID: SP-VZ #15 Collection Date: 8/29/2019 11:41:00 AM

Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | 440 | 60 | mg/Kg | 20 | 9/8/2019 2:02:16 PM | 47337 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | : BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 9/6/2019 8:06:31 PM | 47288 |
| Motor Oil Range Organics (MRO) | 57 | 48 | mg/Kg | 1 | 9/6/2019 8:06:31 PM | 47288 |
| Surr: DNOP | 115 | 70-130 | %Rec | 1 | 9/6/2019 8:06:31 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 9/5/2019 10:42:31 PM | 47276 |
| Surr: BFB | 90.9 | 77.4-118 | %Rec | 1 | 9/5/2019 10:42:31 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.023 | mg/Kg | 1 | 9/5/2019 10:42:31 PM | 47276 |
| Toluene | ND | 0.046 | mg/Kg | 1 | 9/5/2019 10:42:31 PM | 47276 |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 9/5/2019 10:42:31 PM | 47276 |
| Xylenes, Total | ND | 0.091 | mg/Kg | 1 | 9/5/2019 10:42:31 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 92.2 | 80-120 | %Rec | 1 | 9/5/2019 10:42:31 PM | 47276 |

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

Qualifiers:

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

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

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Lab Order **1908I75**

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: RIDDLE F LS 1

Lab ID:

1908I75-016 **Matrix:** SOIL

Client Sample ID: SP-VZ #16 Collection Date: 8/29/2019 11:46:00 AM

Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analys | : CJS |
| Chloride | 390 | 60 | mg/Kg | 20 | 9/8/2019 2:14:41 PM | 47337 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | Analyst | : BRM |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 9/6/2019 8:28:54 PM | 47288 |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 9/6/2019 8:28:54 PM | 47288 |
| Surr: DNOP | 105 | 70-130 | %Rec | 1 | 9/6/2019 8:28:54 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 9/5/2019 11:06:26 PM | 47276 |
| Surr: BFB | 96.8 | 77.4-118 | %Rec | 1 | 9/5/2019 11:06:26 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.023 | mg/Kg | 1 | 9/5/2019 11:06:26 PM | 47276 |
| Toluene | ND | 0.046 | mg/Kg | 1 | 9/5/2019 11:06:26 PM | 47276 |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 9/5/2019 11:06:26 PM | 47276 |
| Xylenes, Total | ND | 0.092 | mg/Kg | 1 | 9/5/2019 11:06:26 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 99.1 | 80-120 | %Rec | 1 | 9/5/2019 11:06:26 PM | 47276 |

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

Qualifiers:

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

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

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Lab Order 1908I75

Date Reported: 9/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: RIDDLE F LS 1

Lab ID: 1908I75-017

Client Sample ID: SP-VZ #17

Collection Date: 8/29/2019 11:50:00 AM Received Date: 8/30/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | 720 | 59 | mg/Kg | 20 | 9/8/2019 2:27:05 PM | 47337 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | : BRM |
| Diesel Range Organics (DRO) | 13 | 9.8 | mg/Kg | 1 | 9/6/2019 8:51:16 PM | 47288 |
| Motor Oil Range Organics (MRO) | 89 | 49 | mg/Kg | 1 | 9/6/2019 8:51:16 PM | 47288 |
| Surr: DNOP | 110 | 70-130 | %Rec | 1 | 9/6/2019 8:51:16 PM | 47288 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 9/5/2019 11:30:13 PM | 47276 |
| Surr: BFB | 90.3 | 77.4-118 | %Rec | 1 | 9/5/2019 11:30:13 PM | 47276 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 9/5/2019 11:30:13 PM | 47276 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 11:30:13 PM | 47276 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 9/5/2019 11:30:13 PM | 47276 |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 9/5/2019 11:30:13 PM | 47276 |
| Surr: 4-Bromofluorobenzene | 92.5 | 80-120 | %Rec | 1 | 9/5/2019 11:30:13 PM | 47276 |

Matrix: SOIL

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

Qualifiers:

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

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

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Analytical Report
Lab Order 1910296

Date Reported: 10/7/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SP-VZ#17(x)

Project: Riddle F LS 1

Collection Date: 10/3/2019 12:29:00 PM **Received Date:** 10/4/2019 9:30:00 AM

Lab ID: 1910296-007 **Matrix:** SOIL

| Analyses | Result | RL Q | ual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|-----------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | 320 | 60 | mg/Kg | 20 | 10/5/2019 12:19:17 AM | 47944 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | : BRM |
| Diesel Range Organics (DRO) | ND | 8.8 | mg/Kg | 1 | 10/4/2019 11:04:20 AM | 47935 |
| Motor Oil Range Organics (MRO) | ND | 44 | mg/Kg | 1 | 10/4/2019 11:04:20 AM | 47935 |
| Surr: DNOP | 108 | 70-130 | %Rec | 1 | 10/4/2019 11:04:20 AM | 47935 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 3.5 | mg/Kg | 1 | 10/4/2019 11:02:50 AM | 47919 |
| Surr: BFB | 95.2 | 77.4-118 | %Rec | 1 | 10/4/2019 11:02:50 AM | 47919 |

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

Qualifiers:

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

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

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| CI | <u>nain-c</u> | of-Cus | tody Record | Turn-Around I | ime. | | | | | Н | Δſ | • | FN | W | TE | 20 | NB | ИF | :NT | CA (| ſ | |
|--------------------|---------------|-------------|---------------------------|-------------------------|----------------------|------------------------|-----------------------|-------------|----------------|---------------------------|--------------------|-------------|---------------|---|-----------------|-------------|-----------------|----------------|----------|-------------|-----------------|----------------------|
| Client: | BLAG | G ENGR. | / BPX ENERGY | ☑ Standard | ☐ Rush _ | | | | F | | | | | | | | | | AT (| | | |
| | | | | Project Name: | | | | | | | | | | | | ntal. | | | . | | | |
| Mailing Ad | ddress: | P.O. BO | X 87 | R | IDDLE F LS | #1 | | 49 | 01 F | Iawki | | | | | | | | | 9 | | | |
| | | BLOOM | FIELD, NM 87413 | Project #: | | | | | | 5-34 | | | | | | 345- | | | | | | |
| Phone #: | | (505) 63 | 2-1199 | | | | | | | | | | | | | ues | | | | | | |
| email or F | ax#: | | | Project Manag | er: | | | | | | | | T, | ټ | | ŀ | l | 1) | | | \Box | |
| QA/QC Pad Standa | - | | Level 4 (Full Validation) | | SABRE BEE | ВЕ | (8021B) | only) | / MRO) | ļ | | IS) | | PO4,SO, | 2 PCB's | | | ter - 300.1) | | | e | |
| Accreditat | ion: | 2 | | Sampler: | NELSON VE | LEZ JEFF BLAND | 8) F | + TPH (Gas | DRO / | न | - - | 70SIMS) | | _ 2 2 | 8082 | Ī | | / water | | | sample | |
| □ NELAP | | □ Other | | On Ice: | <u></u> Σ⁄(Yes | ⊞ Ńo | ∄ | TPH | _ | 418.1) | 504 | 었ㅣ | s l | 8 | <u>~</u> I | . | 8 | 300.0 | | | te sa | ž |
| □ EDD (T | ype) | | | Sample Tempe | erature:4,60 | S=4.1 | 4 | 3E + | (GR | ροτ | 힐 | <u>.</u> اخ | etal | S. | icid | হ | اِ ا | - 1 | | 흥 | isoc | اغ |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL NO. 1908 I 75 | BTEX + NAT | BTEX + MTBE | трн 8015в (GRO | TPH (Method | EDB (Method 504.1) | РАН (8310 | RCKA 8 Metals | Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) | 8081 Pesticides | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (soil | : | Grab sample | 5 pt. composite | Air Bubbles (Y or N) |
| 8/29/19 | /०३८ | SOIL | SP - VZ # 1 | 4 oz 1 | Cool | -00 | 7 | | √ | | | | | | | | | ٧ | | | 6 | |
| 8/29/19 | 1041 | SOIL | SP - VZ # 2 | 4 oz 1 | Cool | 7012 | > | | V | | | | | | | | | ٧ | | | 7 | |
| 8/29/19 | 1095 | SOIL | SP - VZ #3 | 4 oz 1 | Cool | <i>T</i> 03 | 7 | | ٧ | | | | | | | | | ٧ | | | 6 | |
| 8/29/19 | 1049 | SOIL | SP - VZ #4 | 4 oz 1 | Cool | 704 | > | | 7 | | | | | | | | | ٧ | | | 6 | |
| 8/29/19 | 1052 | SOIL | SP - VZ # 5 | 4 oz 1 | Cool | 70 | 7 | | 7 | | | | | | | | | ٧ | | | 6 | |
| 8/29/19 | १०५४ | SOIL | SP - VZ #6 | 4 oz 1 | Cool | -206 | 7 | | ٧ | | | | | | | | | ٧ | | | 6 | |
| 8/29/19 | 1058 | SOIL | SP - VZ # 7 | 4 oz 1 | Cool | -07 | 7 | | ٧ | | | | | | | | | ٧ | | | 4 | |
| 8/29/19 | 1102 | SOIL | SP - VZ #8 | 4 oz 1 | Cool | -768 | 7 | | 7 | | | | | | | · | | √ | | | 6 | |
| 8/29/19 | 1106 | SOIL | SP - VZ # 9 | 4 oz 1 | Cool | 709 | 7 | | ٧ | | | | | | | | | ٧ | | | 6 | |
| 8/29/19 | 1110 | SOIL | SP - VZ # 10 | 4 oz 1 | Cool | 70 | ٧ | | ٧ | | | | | | | | | V | | | 7 | |
| 8/29/19 | 1119 | SOIL | SP - VZ #11 | 4 oz 1 | Cool | al | V | | ٧ | | | | | | | | | ٧ | | | 6 | |
| 8/29/19 | 1124 | SOIL | SP - VZ # 12 | 4 oz 1 | Cool | 7/2 | ٧ | | ٧ | | | | | | | | | V | | \Box | 6 | |
| Date: 8/29/2019 | Time: | Relinquishe | d by: [Blagg | Received by: | Jolant | Date Time 8/29/19 1442 | Rem | | | BILL DI VIA EM SABR | AIL C | RISP | ENDI | NG. | | | ract(| S) BEI | LOW. F | O DE | LIVER | ₹ED |
| Date: | Time: 1757 | Relinquishe | od by: | Received by: An | | Date Time | | | | | | | | | | | | | alutical | | | |

| <u>C</u> | <u>hain-</u> | of-Cus | stody Record | l urn-Around | ı ime: | | | | | _ | AL | | _ | NIZ. | /TE | 20 | . B.I.a | 14 E | EN | T 4 | | |
|------------|---------------|----------------|---|-------------------------|------------------------|----------------------------|-------------|-------------|----------------|--------------------|--------------------|-----------|---------------|---|-----------------|-------------|-----------------|----------------|----------|-------------|-----------------|----------------------|
| Client: | BLAG | G ENGR. | / BPX ENERGY | ☐ Standard | ☐ Rush _ | | | | | | | | | | | | | | EN At | | | r |
| | | | · · · · · · · · · · · · · · · · · · · | Project Name | | | | | | | | | | | | | l.con | | * 1 | Ur | C I | |
| Mailing A | ddress: | P.O. BO | X 87 | - | RIDDLE F LS | 5 # 1 | | 40 | 01 L | | | | | | | | | '' 3710 | | | | |
| | | BLOOM | FIELD, NM 87413 | Project #: | | | 1 | | | 14WK 05-34 | | | | | | | | | 9 | | | |
| Phone #: | | (505) 63 | | | | | | 16 | :1. 3(| J3-34 | ¥3-3 | | | rax ysis | | _ | -410 st | ,, | | | | |
| email or F | ax#: | | | Project Manag | jer: | | | | | | | | | | | 1000 | | $\widehat{}$ | | | | |
| QA/QC Pa | • | | Level 4 (Full Validation) | | SABRE BEE | BE | (8021B) | only) | MRO) | | | (S) | | 04,504) | PCB's | | | er - 300.1) | | | a) | |
| Accreditat | tion: | | | Sampler: | NELSON VI | ELEZ /JEHF BLAGE | 8) | | RO / | 1) | 1) | 70SIMS) | | O ₂ , P | 8082 | | | water | | | sample | |
| □ NELAF |) | □ Other | | On Ice: | ⊠ Yes | □No | 1 | + TPH (Gas | / DRO | 418. | 504. | 8270 | | N,EC | _ | | ₹ | 300.0 | | | | Z |
| | Гуре) | <u> </u> | | Sample Temp | erature:44-6-6 | 05(F=4.1 | L | + 3E | (GR(| po. | pou | ٥ | etals | CI,N(| cide | (A) | j-\C | | | <u>e</u> | osit | ة خ |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL NO. 1908IT 3 | BTEX +-MITE | BTEX + MTBE | TPH 8015B (GRO | TPH (Method 418.1) | EDB (Method 504.1) | PAH (8310 | RCRA 8 Metals | Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) | 8081 Pesticides | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (soil | | Grab sample | # pt. composite | Air Bubbles (Y or N) |
| 8/29/19 | 1130 | SOIL | SP - VZ # 13 | 4 oz 1 | Cool | 7013 | | | ٧ | | | | | | | | | ٧ | | | 6 | |
| 8/29/19 | 1134 | SOIL | SP - VZ # 14 | 4 oz 1 | Cool | 014 | ٧ | | ٧ | | | | | | | | | ٧ | | | 6 | |
| 8/29/19 | 1141 | SOIL | SP - VZ # 15 | 4 oz 1 | Cool | 705 | ٧ | | ٧ | | | | | | | | | ٧ | | | 6 | |
| 8/29/19 | 1146 | SOIL | SP-VZ #16 | 4 oz 1 | Cool | 7016 | ٧ | | ٧ | | | | | | | | | ٧ | | | 6 | |
| 8/29/19 | 1150 | SOIL | SP - VZ # 17 | 4 oz 1 | Cool | 717 | ٧ | | ٧ | | | | | | | | | V | | | 6 | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | · | | | | | | | |
| Date: | Time: 1442 | Relinquishe | d Blazy | Received by: | ait | Date Time 8/29/19 1442 | Rem | | | BILL D VIA EI | MAIL | OR IS | PEND | ING. | | | TACT(| S) BEL | LOW. | PO DI | ELIVE | RED |
| Date: | | Relinguishe | ed by: | Received by | as In | Date/ Time 08/30/19 | | | | | | | | - | | - 2- 2 | | | | | | |
| | If necessa | inv samples si | ubmitted to Hall Environmental may be s | uhcontracted to other | accredited laboratorie | e This serves as notice of | this or | esihili | tv Ac | w eub | confr | acted o | tata w | ill ba c | loorly | notate | ad on t | the ac | abéica | ropor | | — |

| Chain- | of-Cu | istody Record | Turn-Around | Time: | | | | | | | | | | # TE 15 | | | | | |
|-----------------------|--|---|--|------------------|--|---|------------------------------|---|--|--|-------------|-------------|---|---|-------------|--------------|----------|-----------|----------------------|
| BPX | ENER | GY | ☐ Standard | Rush | Same Day | | | | | | | | | | | | | | |
| BLAGE | ENGL | NEERING TAR | A Company of the Comp | e: | 0 | | | 亷 | | | | | | | | | INC. | 110 | IL I |
| | | | RIDDLE | FLS | [#] 1 | | 40 | 04.1 | | | | | | | | | 7400 | | |
| | | | Project #: | | | | | | | | | | | | | | | | |
| #: 505 | - 320 | -110.2 | | | | | 1.6 | ei. 50 | 13-34 | -5-58 | _ | - | and All | - | | | / | | |
| | | 110,5 | Project Mana | ager: | | | <u>\S</u> | ô | | | | | | | | | | | |
| | | ☐ Level 4 (Full Validation) | | | EBE | s (8021) | (Gas on | RO / MR | | | (SMI) | | PO ₄ ,SO | PCB's | | | 0 | | |
| | □ Othe | or . | | | | TMB | TPH |) / DF | 3.1) | 1.1 | 270 S | | ,NO ₂ , | 8082 | | _ | 300.0 | | Î |
| | LI Othe | "- | | | | + | + | GRC | 418 | 204 | or 8 | als | 9 | es/ | | OA) | | | o |
| Time | Matrix | Sample Request ID | Container Type and # | | | STEX + MTB | STEX + MTB | TPH 8015B (| TPH (Method | EDB (Method | PAH's (8310 | RCRA 8 Meta | Anions (F,CI,I | 3081 Pesticid | 3260B (VOA) | 3270 (Semi-V | CHLORIDE | | Air Bubbles (Y or N) |
| 1211 | SOIL | SP-VZ#1(x) | 4 02 × 1 | COOL | -00) | | | X | | | | | _ | | | w | X | | |
| 1214 | | SP-1/2#4(x) | | | -007 | | | | | | | | | | | | X | | |
| 1217 | | SP- V2 #5(x) | | | -003 | | | 1 | | | | | | | | | X | | |
| 1220 | | | | | -004 | | | | | | | | | | | | | | |
| 1223 | | | | | -005 | | | | | | | | | = = | | | X | | |
| 1226 | | | | | -006 | | | | | | | | | | | | X | | |
| 1229 | | SP-VZ #17(X) | | 1 | -007 | | | X | | | | | | | | | Χ | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | 7 | | | | | | | | | | | | \perp |
| Time: 1530 Time: 1752 | Jef | 1 Blogg | Received by: | Walls Currier | Date Time 10/3/2019 1536 Date Time 10/4/16 9:30 | | narks | s: E | ONT: | BP. | X - s : | - F SA | BRE | nect B | EE'S | 20. SE/ | ISS | NED NO DI | MANN |
| | BPX BLAGG Address #: 505 or Fax#: Package: ndard itation AP 0 (Type) Time 1211 1214 1217 1220 1223 1226 1229 | BPX ENER BLAGG ENGL Address: #: 505 - 320 or Fax#: Package: ndard itation AP | #: 505 - 320 - 1183 or Fax#: Package: Indard | BPX ENERGY | BPX ENERGY BLAGE ENGINEERING, INC. Address: Project Name: Project #: #: 505 - 320 - 1183 or Fax#: Package: Indiand I Level 4 (Full Validation) Itation AP Other O(Type) Time Matrix Sample Request ID Time Matrix Sample Request ID Sample Temperature: 2 Tool 1211 SOL SP-V2*1(X) 1214 SP-V2*4(X) 1217 SP-V2*5(X) 1220 SP-V2*8(X) 1224 SP-V2*1(X) 1229 SP-V2*1(X) Fine: Relinquished by: Received by: Time: Relinquished by: Received by: Received by: Time: Relinquished by: Received by: Time: Relinquished by: Received by: | Standard Standard | Standard Rush Samu Day | Standard Rush Same Day Project Name: RIDDLE F L S #1 49 | Standard Rush Samp Day Project Name: Rush Samp Day Project Name: RubLE F L S #1 Agon Heal No. Sample Request D Container Type And Ty | Standard Rush Samp Day Project Name: RubLE F L S #1 A901 Hawking Tel. 505-34 | Standard | Standard | Standard Rush Same Date Project Name: Rush Same Date Rush Same Date Rush Same Date Rush Same Date Time Relinquished by: Received by Date Time Relinquished by: Received by Date Time Relinquished by: Reserved by Date Time Relinquished by: Reserved by Date Time Relinquished by: Reserved by Date Time Relinquished by: Received by Relinquished by: Relinquished by: | Standard Rush Samt Day Project Name: Ribble F L S # 1 Project Name: Ribble F L S # 1 Project Manager: Project Manager: SABRE BEEBE SABRE BEEBE Sample Sample Sample Rush Sample Sample Rush Sample Rush | BPX ENERGY | Standard | Standard | Standard | Standard |

Hall Environmental Analysis Laboratory, Inc.

1908175 11-Sep-19

Client: Project: **Blagg Engineering** RIDDLE F LS 1

Sample ID: MB-47324

SampType: mblk

Result

TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 47324

RunNo: 62719

SPK value SPK Ref Val %REC LowLimit

Prep Date: 9/6/2019 Analysis Date: 9/7/2019

PQL

SeqNo: 2136450 Units: mg/Kg

Analyte

%RPD

RPDLimit Qual

WO#:

Chloride

ND 1.5

Sample ID: LCS-47324

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 47324

RunNo: 62719

HighLimit

Prep Date: 9/6/2019

Analysis Date: 9/7/2019

SeqNo: 2136451

Units: mg/Kg

Analyte

Result

15

Result

Result

15

ND

PQL SPK value SPK Ref Val

15.00

%REC LowLimit 97.1

HighLimit 110

90

%RPD **RPDLimit** Qual

Chloride

SampType: mblk

1.5

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

PBS

9/6/2019

Sample ID: MB-47337

Batch ID: 47337 Analysis Date: 9/8/2019

RunNo: 62749

SeqNo: 2137240

Units: mg/Kg

Analyte

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

%RPD

Qual

Chloride

Sample ID: LCS-47337

SampType: Ics

1.5

TestCode: EPA Method 300.0: Anions RunNo: 62749

Client ID: LCSS Prep Date:

9/6/2019

Batch ID: 47337

SeqNo: 2137241

Units: mg/Kg

Qual

Analyte

Analysis Date: 9/8/2019 **PQL**

1.5

SPK value SPK Ref Val

%REC 96.7

LowLimit

HighLimit

RPDLimit

Chloride

15.00

110

Qualifiers:

Value exceeds Maximum Contaminant Level

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits Sample pH Not In Range

Reporting Limit

Page 18 of 21

Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

1908175 11-Sep-19

WO#:

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client: Project:

Sample ID: LCS-47254

Blagg Engineering RIDDLE F LS 1

| Surr: DNOP | 10 | | 10.00 | | 101 | 70 | 130 | | | |
|--------------------------------|------------|---------------|-----------|-------------|-----------|-----------|-------------|------------|------------|------|
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Prep Date: 9/4/2019 | Analysis D | ate: 9/ | 5/2019 | \$ | SeqNo: 2 | 133503 | Units: mg/k | (g | | |
| Client ID: PBS | Batch | ID: 47 | 254 | F | RunNo: 6 | 2660 | | | | |
| Sample ID: MB-47254 | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Surr: DNOP | 4.3 | | 5.000 | | 86.6 | 70 | 130 | | | |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 93.4 | 63.9 | 124 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Prep Date: 9/4/2019 | Analysis D | ate: 9/ | 5/2019 | 5 | SeqNo: 2 | 133502 | Units: mg/k | (g | | |
| Client ID: LCSS | Batch | ID: 47 | 254 | F | RunNo: 6 | 2660 | | | | |
| | | | | | | | | | | |

| Sample ID: LCS-47288 | SampT | ype: LC | S | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|------------|--|-----------|---|----------|----------|--------------|------|----------|------|--|
| Client ID: LCSS | Batch | Batch ID: 47288 RunNo: 62698 | | | | | | | | | |
| Prep Date: 9/5/2019 | Analysis D | Analysis Date: 9/6/2019 | | | SeqNo: 2 | 135531 | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | 57 | 10 | 50.00 | 0 | 113 | 63.9 | 124 | | | | |
| Surr: DNOP | 5.9 | | 5.000 | | 117 | 70 | 130 | | | | |

| Sample ID: MB-47288 | SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | | | |
|--------------------------------|--|-----------------|-----------|-----------------------|----------|----------|--------------|------|----------|------|--|
| Client ID: PBS | Batcl | n ID: 47 | 288 | F | RunNo: 6 | 2698 | | | | | |
| Prep Date: 9/5/2019 | Analysis D |)ate: 9/ | 6/2019 | SeqNo: 2135532 | | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | | |
| Surr: DNOD | 11 | | 10.00 | | 107 | 70 | 130 | | | | |

Surr: DNOP 10.00 107 130

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

1908175 11-Sep-19

Client:

Blagg Engineering

RIDDLE F LS 1 **Project:**

Client ID: PBS

Sample ID: MB-47241 SampType: MBLK

Batch ID: 47241

RunNo: 62633

SPK value SPK Ref Val %REC

1000

25.00

1000

1000

SPK value SPK Ref Val

Prep Date: 9/3/2019

Analysis Date: 9/4/2019

PQL

SeqNo: 2132540

LowLimit

Units: mg/Kg HighLimit

%RPD **RPDLimit** Qual

WO#:

Gasoline Range Organics (GRO) Surr: BFB

Result ND 980

5.0

98.2

77.4 118

TestCode: EPA Method 8015D: Gasoline Range

Sample ID: LCS-47241

LCSS

SampType: LCS Batch ID: 47241 TestCode: EPA Method 8015D: Gasoline Range RunNo: 62633

%RPD

%RPD

Prep Date: 9/3/2019

Analysis Date: 9/4/2019

SeqNo: 2132541

Units: mg/Kg

RPDLimit

Analyte Gasoline Range Organics (GRO)

Result PQL 24 5.0

1200

SPK value SPK Ref Val %REC I owl imit 0 94.7

HighLimit 80 120 Qual

Surr: BFB

Client ID:

Sample ID: MB-47276 SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

77 4

Prep Date: 9/4/2019

Client ID: PBS Batch ID: 47276 Analysis Date: 9/5/2019

Result

Result

RunNo: 62667 SeqNo: 2134629

115

Units: mg/Kg

HighLimit

118

Analyte Gasoline Range Organics (GRO) Surr: BFB

ND 5.0 890

SPK value SPK Ref Val %REC LowLimit

89.3 77.4 118

RPDLimit

Qual

Sample ID: LCS-47276

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range RunNo: 62667

Client ID: LCSS Prep Date: 9/4/2019

Batch ID: 47276 Analysis Date: 9/5/2019

PQL

PQL

SeqNo: 2134630

%REC

Units: mg/Kg HighLimit

120

118

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

23 5.0 25.00 1000 1000

92.6 99.6

80 77.4

LowLimit

Qualifiers:

Value exceeds Maximum Contaminant Level

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

1908I75 11-Sep-19

WO#:

Client: Blagg Engineering
Project: RIDDLE F LS 1

| Sample ID: MB-47241 | Samp1 | SampType: MBLK TestCode: EPA Method | | | | 8021B: Volat | iles | | | |
|----------------------------|------------|-------------------------------------|-----------|-----------------------|------|--------------|--------------|------|----------|------|
| Client ID: PBS | Batcl | h ID: 47 2 | 241 | RunNo: 62633 | | | | | | |
| Prep Date: 9/3/2019 | Analysis D | Date: 9/ | 4/2019 | SeqNo: 2132575 | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.86 | | 1.000 | | 85.5 | 80 | 120 | | | |

| Sample ID: LCS-47241 | Samp | Гуре: LC | S | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|------------|-------------------|-----------|---------------------------------------|----------|----------|--------------|------|----------|------|--|--|
| Client ID: LCSS | Batc | h ID: 47 2 | 241 | R | RunNo: 6 | 2633 | | | | | | |
| Prep Date: 9/3/2019 | Analysis [| Date: 9/ | 4/2019 | S | SeqNo: 2 | 132576 | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Benzene | 0.93 | 0.025 | 1.000 | 0 | 93.4 | 80 | 120 | | | | | |
| Toluene | 0.97 | 0.050 | 1.000 | 0 | 96.6 | 80 | 120 | | | | | |
| Ethylbenzene | 0.98 | 0.050 | 1.000 | 0 | 98.1 | 80 | 120 | | | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 95.6 | 80 | 120 | | | | | |
| Surr: 4-Bromofluorobenzene | 0.91 | | 1.000 | | 91.3 | 80 | 120 | | | | | |

| Sample ID: MB-47276 | SampT | Гуре: МЕ | BLK | Tes | tCode: El | PA Method | 8021B: Volat | iles | | | |
|----------------------------|------------|-------------------|-----------|---------------------|-----------|-----------|--------------|------|----------|------|--|
| Client ID: PBS | Batcl | h ID: 47 2 | 276 | RunNo: 62667 | | | | | | | |
| Prep Date: 9/4/2019 | Analysis D | Date: 9/ | 5/2019 | SeqNo: 2134673 | | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | ND | 0.025 | | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.92 | | 1.000 | | 92.3 | 80 | 120 | | | | |

| Sample ID: LCS-47276 | Samp1 | Гуре: LC | s | Tes | tCode: El | PA Method | 8021B: Volat | iles | | | |
|----------------------------|------------|-------------------|-----------|-----------------------|-----------|-----------|--------------|------|----------|------|--|
| Client ID: LCSS | Batc | h ID: 47 2 | 276 | F | RunNo: 6 | 2667 | | | | | |
| Prep Date: 9/4/2019 | Analysis [| Date: 9/ | 5/2019 | SeqNo: 2134675 | | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | 0.96 | 0.025 | 1.000 | 0 | 96.1 | 80 | 120 | | | | |
| Toluene | 0.98 | 0.050 | 1.000 | 0 | 97.8 | 80 | 120 | | | | |
| Ethylbenzene | 0.97 | 0.050 | 1.000 | 0 | 96.8 | 80 | 120 | | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 98.6 | 80 | 120 | | | | |
| Surr: 4-Bromofluorobenzene | 0.97 | | 1.000 | | 97.3 | 80 | 120 | | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 21 of 21



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

| Client Name: | BLAGG | Work Order Numb | er: 1908 | 175 | | RcptNo | |
|---|---|--|--|---|-------------|--|------------------|
| Received By: | Anne Thorne | 8/30/2019 8:00:00 A | М . | | Ann Sh | - | |
| Completed By: | Anne Thorne | 8/30/2019 2:57:17 P | М | | Aone Sh | | |
| Reviewed By: | 10 | 8/30/17 | | | ane fr | _ | |
| Chain of Cus | stody | | | | | | |
| 1. Is Chain of C | ustody complete? | | Yes | ✓ | No 🗌 | Not Present | |
| 2. How was the | sample delivered? | | <u>Cour</u> | <u>ier</u> | | | |
| <u>Log in</u> | | | | | | | |
| Was an attern | npt made to cool the s | amples? | Yes | ✓ | No 🗌 | NA 🗌 | |
| 4. Were all samp | ples received at a tem | perature of >0° C to 6.0°C | Yes | ✓ | No 🗌 | NA 🗌 | |
| 5. Sample(s) in | proper container(s)? | | Yes | ✓ | No 🗆 | | |
| 6. Sufficient sam | nple volume for indicat | ed test(s)? | Yes | ✓ | No 🗆 | | |
| 7. Are samples (| except VOA and ONG | properly preserved? | Yes | ✓ | No 🗆 | | |
| 8. Was preserva | tive added to bottles? | | Yes | | No 🔽 | NA \square | |
| 9. VOA vials hav | e zero headspace? | | Yes | | No 🗆 | No VOA Vials 🗹 | |
| 10. Were any san | mple containers receiv | ed broken? | Yes | | No 🗹 | # of processed | |
| 44 - | | | | | | # of preserved bottles checked | |
| | ork match bottle labels ancies on chain of cus | | Yes | ✓ | No ∐ | for pH: | 12 unless noted) |
| | correctly identified on (| | Yes | ✓ | No □ | Adjusted2 | |
| | t analyses were reque | | | ✓ | No 🗆 | | 2010 |
| | ng times able to be me ustomer for authorizati | | Yes | ✓ | No 🗆 | Checked by: | 8,50,15 |
| • | ing (if applicable | • | | | | | |
| | tified of all discrepanc | | Yes | | No 🗆 | NA 🗹 | |
| Person | Notified: | Date | | | <u> </u> | | |
| By Who | om: | Via: | □ eMa | il 🗍 F | Phone Fax | In Person | |
| Regardi | ing: | | | | | | |
| Client Ir | nstructions: | 1895 STATE OF THE SECOND SECON | er i en este de la composition della composition | *************************************** | | NEED AL SALES CALLS CALLS CONTRACT CONT | |
| 16. Additional rer | marks: | | | | | | ٠ |
| 17. <u>Cooler Information</u> Cooler No | and proportional and the contract of | ion Seal Intact Seal No Yes | Seal Da | te | Signed By | | |
| | | | | | | | |

Hall Environmental Analysis Laboratory, Inc.

07-Oct-19

1910296

Client:

Blagg Engineering

Project:

Riddle F LS 1

Sample ID: MB-47944

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 47944

RunNo: 63436

Prep Date: 10/4/2019

Analysis Date: 10/4/2019

PQL

SeqNo: 2166913

Units: mg/Kg

%RPD

%RPD

RPDLimit

WO#:

Qual

Analyte Chloride

ND 1.5

Sample ID: LCS-47944 LCSS

SampType: Ics Batch ID: 47944

PQL

1.5

1.5

TestCode: EPA Method 300.0: Anions

RunNo: 63436

%REC

97.3

Units: mg/Kg

HighLimit

Analyte

Client ID: LCSS

Prep Date: 10/4/2019

Client ID:

Analysis Date: 10/4/2019

15

14

Result

Result

SeqNo: 2166914

SPK value SPK Ref Val %REC LowLimit

LowLimit

HighLimit

110

RPDLimit

Qual

Chloride

Sample ID: LCS-47944

SampType: Ics

15.00

SPK value SPK Ref Val

RunNo: 63443

TestCode: EPA Method 300.0: Anions

90

Units: mg/Kg

Analyte

Prep Date: 10/4/2019

Batch ID: 47944 Analysis Date: 10/4/2019

SPK value SPK Ref Val %REC LowLimit

96.2

SeqNo: 2166987

%RPD

RPDLimit

Qual

Chloride

Result

15.00

0

HighLimit 110

Qualifiers:

Value exceeds Maximum Contaminant Level

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 8 of 10

Hall Environmental Analysis Laboratory, Inc.

1910296 07-Oct-19

WO#:

Client: Project. **Blagg Engineering**

Riddle F LS 1

| Diesel Range Organics (DRO) | Project: Riddle I | ELS I | | |
|--|--------------------------------|--------------------------|-------------------------------|-----------------------------|
| Prep Date: 10/4/2019 | Sample ID: LCS-47935 | SampType: LCS | TestCode: EPA Method 8015 | 5M/D: Diesel Range Organics |
| Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quality Diesel Range Organics (DRO) 53 10 50.00 0 106 63.9 124 Surr: DNOP 4.9 50.00 97.6 70 130 Sample ID: MB-47935 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 47935 RunNo: 63422 Prep Date: 10/4/2019 Analysis Date: 10/4/2019 SeqNo: 2165733 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quality Diesel Range Organics (DRO) ND 10 10.00 99.7 70 130 | Client ID: LCSS | Batch ID: 47935 | RunNo: 63422 | |
| Diesel Range Organics (DRO) S3 10 50.00 0 106 63.9 124 | Prep Date: 10/4/2019 | Analysis Date: 10/4/2019 | SeqNo: 2165732 Unit | ts: mg/Kg |
| Surr: DNOP 4.9 5.000 97.6 70 130 Sample ID: MB-47935 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 47935 RunNo: 63422 Prep Date: 10/4/2019 Analysis Date: 10/4/2019 SeqNo: 2165733 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qui Diesel Range Organics (DRO) ND 10 10.00 99.7 70 130 Sample ID: LCS-47905 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166359 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qui Surr: DNOP 4.8 5.000 96.1 70 130 Sample ID: MB-47905 SampType: MBLK TestCode: EPA | Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit Hiç | ghLimit %RPD RPDLimit Qual |
| Sample ID: MB-47935 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 47935 RunNo: 63422 Prep Date: 10/4/2019 Analysis Date: 10/4/2019 SeqNo: 2165733 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quality Diesel Range Organics (DRO) ND 10 10.00 99.7 70 130 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166359 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quality Sample ID: MB | Diesel Range Organics (DRO) | 53 10 50.00 | 0 106 63.9 | 124 |
| Client ID: PBS | Surr: DNOP | 4.9 5.000 | 97.6 70 | 130 |
| Prep Date: 10/4/2019 Analysis Date: 10/4/2019 SeqNo: 2165733 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quality Diesel Range Organics (DRO) ND 10 ND 50 ND 10 10.00 99.7 70 130 70 | Sample ID: MB-47935 | SampType: MBLK | TestCode: EPA Method 8015 | 5M/D: Diesel Range Organics |
| Analyte | Client ID: PBS | Batch ID: 47935 | RunNo: 63422 | |
| Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10 10.00 99.7 70 130 Sample ID: LCS-47905 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166359 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quality Surr: DNOP 4.8 5.000 96.1 70 130 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166360 Units: %Rec Analyte Result PQL SPK value SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quality | Prep Date: 10/4/2019 | Analysis Date: 10/4/2019 | SeqNo: 2165733 Unit | ts: mg/Kg |
| Motor Oil Range Organics (MRO) Surr: DNOP ND 50 10 10.00 99.7 70 130 Sample ID: LCS-47905 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166359 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 4.8 5.000 96.1 70 130 Sample ID: MB-47905 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166360 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Qual | Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit Hiç | ghLimit %RPD RPDLimit Qual |
| Surr: DNOP 10 10.00 99.7 70 130 Sample ID: LCS-47905 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166359 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 4.8 5.000 96.1 70 130 Sample ID: MB-47905 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166360 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | Diesel Range Organics (DRO) | ND 10 | | |
| Sample ID: LCS-47905 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166359 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 4.8 5.000 96.1 70 130 Sample ID: MB-47905 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166360 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Spk Value SPK Ref Val | Motor Oil Range Organics (MRO) | ND 50 | | |
| Client ID: LCSS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166359 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quality Surr: DNOP 4.8 5.000 96.1 70 130 Sample ID: MB-47905 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166360 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quality | Surr: DNOP | 10 10.00 | 99.7 70 | 130 |
| Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166359 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quality Surr: DNOP 4.8 5.000 96.1 70 130 Sample ID: MB-47905 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166360 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quality | Sample ID: LCS-47905 | SampType: LCS | TestCode: EPA Method 8015 | 5M/D: Diesel Range Organics |
| Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quality Surr: DNOP 4.8 5.000 96.1 70 130 <td< td=""><td>Client ID: LCSS</td><td>Batch ID: 47905</td><td>RunNo: 63422</td><td></td></td<> | Client ID: LCSS | Batch ID: 47905 | RunNo: 63422 | |
| Surr: DNOP 4.8 5.000 96.1 70 130 Sample ID: MB-47905 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166360 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | Prep Date: 10/3/2019 | Analysis Date: 10/4/2019 | SeqNo: 2166359 Unit | ts: %Rec |
| Sample ID: MB-47905 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166360 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua | Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit Hiç | ghLimit %RPD RPDLimit Qual |
| Client ID: PBS Batch ID: 47905 RunNo: 63422 Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166360 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quality | Surr: DNOP | 4.8 5.000 | 96.1 70 | 130 |
| Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166360 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua | Sample ID: MB-47905 | SampType: MBLK | TestCode: EPA Method 8015 | iM/D: Diesel Range Organics |
| Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua | Client ID: PBS | Batch ID: 47905 | RunNo: 63422 | |
| | Prep Date: 10/3/2019 | Analysis Date: 10/4/2019 | SeqNo: 2166360 Unit | ts: %Rec |
| Surr: DNOP 13 10.00 132 70 130 S | Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit Hiç | ghLimit %RPD RPDLimit Qual |
| | Surr: DNOP | 13 10.00 | 132 70 | 130 S |

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

1910296 07-Oct-19

Client: Project: Blagg Engineering

Riddle F LS 1

Sample ID: MB-47919

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 47919

RunNo: 63433

Prep Date: 10/3/2019 Analysis Date: 10/4/2019 SeqNo: 2166815 Units: mg/Kg

Result PQL

%RPD **RPDLimit** Qual

WO#:

Gasoline Range Organics (GRO) Surr: BFB

ND 5.0 980

1000

SPK value SPK Ref Val

SPK value SPK Ref Val %REC

98.1 77.4

LowLimit

118

HighLimit

Sample ID: LCS-47919

Client ID: LCSS

SampType: LCS Batch ID: 47919

PQL

TestCode: EPA Method 8015D: Gasoline Range RunNo: 63433

%REC

%RPD

Prep Date: 10/3/2019

Analysis Date: 10/4/2019

SeqNo: 2166816

Units: mg/Kg

LowLimit HighLimit **RPDLimit** Qual

Gasoline Range Organics (GRO)

26 1100

Result

5.0 25.00 1000 105 110 80

118

Surr: BFB

Analyte

0

77.4

120

Qualifiers:

Value exceeds Maximum Contaminant Level

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range Reporting Limit

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

| Octob Popos | 2019 9:30:00 AM 2019 9:40:45 AM | | | | | | |
|--|------------------------------------|-------|-------------------|----------|-------------|--------------------------------|--------------------|
| revened by 10 to follow | | | | ndazmein | u lefnduite | | |
| Chain of Custody | | | | | 20 | | |
| 1. Is Chain of Custody complete? | | Yes | ~ | No | | Not Present | |
| 2. How was the sample delivered? | | Cou | rier | | | | |
| Log In | | | | | | | |
| 3. Was an attempt made to cool the samples? | | Yes | V | No | | NA 🗌 | |
| 4. Were all samples received at a temperature of >0° | C to 6.0°C | Yes | • | No | | NA 🗆 | |
| 5. Sample(s) in proper container(s)? | | Yes | V | No | | | |
| 6. Sufficient sample volume for indicated test(s)? | | Yes | ~ | No | | | |
| 7. Are samples (except VOA and ONG) properly preser | rved? | Yes | ✓ | No | | | |
| 8. Was preservative added to bottles? | | Yes | | No | V | NA 🗆 | |
| 9. VOA vials have zero headspace? | | Yes | | No | | No VOA Vials | |
| 0. Were any sample containers received broken? | | Yes | | No | V | # of preserved bottles checked | |
| 1. Does paperwork match bottle labels? | | Yes | V | No | | for pH: | r >12 unless noted |
| (Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of Custody | io. | Yes | V | No | | Adjusted? | r > 2 unless noted |
| 3. Is it clear what analyses were requested? | <i>,</i> | Yes | V | No | | | 1 / |
| 4. Were all holding times able to be met? | | Yes | | No | | Checked by: | LB 144/1 |
| (If no, notify customer for authorization.) | | | | | | | |
| Special Handling (if applicable) 15. Was client notified of all discrepancies with this order | er? | Yes | | No | | NA 🗹 | |
| Person Notified: | Date | | | | _ | | |
| By Whom: | Via: | eM | ail 🗆 I | Phone [| Fax | In Person | |
| Regarding: | L | | ч. _П . | | j . u., | | |
| Client Instructions: | | | | - | _ | | |
| 16. Additional remarks: | | | | | | | |
| 17. Cooler Information | Trigon State State S | | 100 I | | | | |
| Cooler No Temp °C Condition Seal Intact 1 2.9 Good | ct Seal No S | eal D | ate | Signed | Ву | | |