

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 | NAPP2310831128 |
| District RP | |
| Facility ID | |
| Application ID | |

I Release Notification

Responsible Party

| | |
|--|---|
| Responsible Party: Hilcorp Energy | OGRID 372171 |
| Contact Name: Kate Kaufman | Contact Telephone: 346-237-2275 |
| Contact email: kkaufman@hilcorp.com | Incident # (assigned by OCD) nAPP2310831128 |
| Contact mailing address: 1111 Travis St. Houston, TX 77471 | |

Location of Release Source

Latitude 36.700259 Longitude -107.856261
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|-----------------------------------|-----------------------------------|
| Site Name: McDaniel B #1E | Site Type: Well Site |
| Date Release Discovered: 4/3/2023 | API# (if applicable) 30-045-24435 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|----------|
| D | 17 | 029N | 011W | San Juan |

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

Nature and Volume of Release

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

| | | |
|--|--|---|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) 0 |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 9 | Volume Recovered (bbls) 0 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) 0 |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) Unknown hydrocarbon | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release


The Hilcorp operations team was notified of a leak at the McDaniels B #1E wellsite. Upon arrival, operator discovered produced water flowing from a two-inch flowline. The operator closed the master valve which stopped the flow immediately. The produced water was released to the pad around the well but did not leave the pad. No fluids were recovered. Based on observations at the location, the release is the result of vandalism. To prevent future occurrences, the end of the two-inch flowline was plugged, and the master valve handle was removed. Samples will be collected to determine future remediation requirements.

| | |
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| Incident ID | NAPP2310831128 |
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| | |
|---|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A | |

Initial Response

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

| | |
|--|--|
| <input checked="" type="checkbox"/> The source of the release has been stopped. | |
| <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. | |
| <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. | |
| <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: | |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| Printed Name: <u>Kate Kaufman</u> | Title: <u>Environmental Specialist</u> |
| Signature:  | Date: <u>4/18/2023</u> |
| email: <u>kkaufman@hilcorp.com</u> | Telephone: <u>346-237-2275</u> |
| <u>OCD Only</u> | |
| Received by: _____ | Date: _____ |

| | |
|----------------|----------------|
| Incident ID | NAPP2310831128 |
| 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? | <u>~98</u> (ft bgs) |
| Did this release impact groundwater or surface water? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

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

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

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

State of New Mexico
Oil Conservation Division

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| | |
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| Incident ID | NAPP2310831128 |
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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: Kathryn H Kaufman Title: Environmental Specialist

Signature:  Date: 8/1/2023

email: kk Kaufman@hilcorp.com Telephone: 346-237-2275

OCD Only

Received by: Shelly Wells Date: 8/1/2023

| | |
|----------------|----------------|
| Incident ID | NAPP2310831128 |
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Closure

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

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

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

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

Printed Name: Kathryn H. Kaufman Title: Environmental Specialist


Signature:  Date: 8/1/2023

email: kkaufman@hilcorp.com Telephone: 346-237-2275

OCD Only

Received by: Shelly Wells Date: 8/1/2023

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

Closure Approved by:  Date: 10/30/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

Executive Summary – Incident #nAPP2310831128

The Hilcorp operations team was notified of a leak at the McDaniels B #1E wellsite (API 30-045-24435) on 4/3/2023. Upon arrival, operator discovered produced water flowing from a two-inch flowline. The operator closed the master valve which stopped the flow immediately. The produced water was released to the pad around the well but did not leave the pad. No fluids were recovered. Based on observations at the location, the release is the result of vandalism. To prevent future occurrences, the end of the two-inch flowline was plugged, and the master valve handle was removed. There was no immediate danger to the public and no fire occurred because of this release.

Samples were collected to delineate the extent of impacts on the pad. Based on delineation sample results, impacted soil was removed from the pad and transported offsite for disposal. Excavation area is shown in the field sample diagrams below.

Seventeen 5-point composite samples were collected on June 30, 2023, and July 20, 2023. Analytical results from this sampling event were below NMOCD action criteria noted in NMAC 19.15.29 Table 1. Sample results are included at the end of this summary report.

Scaled Site Map

Lat: 36.72969
Long: -108.01915

McDaniel B #1E Wellsite
API: 30-045-24435



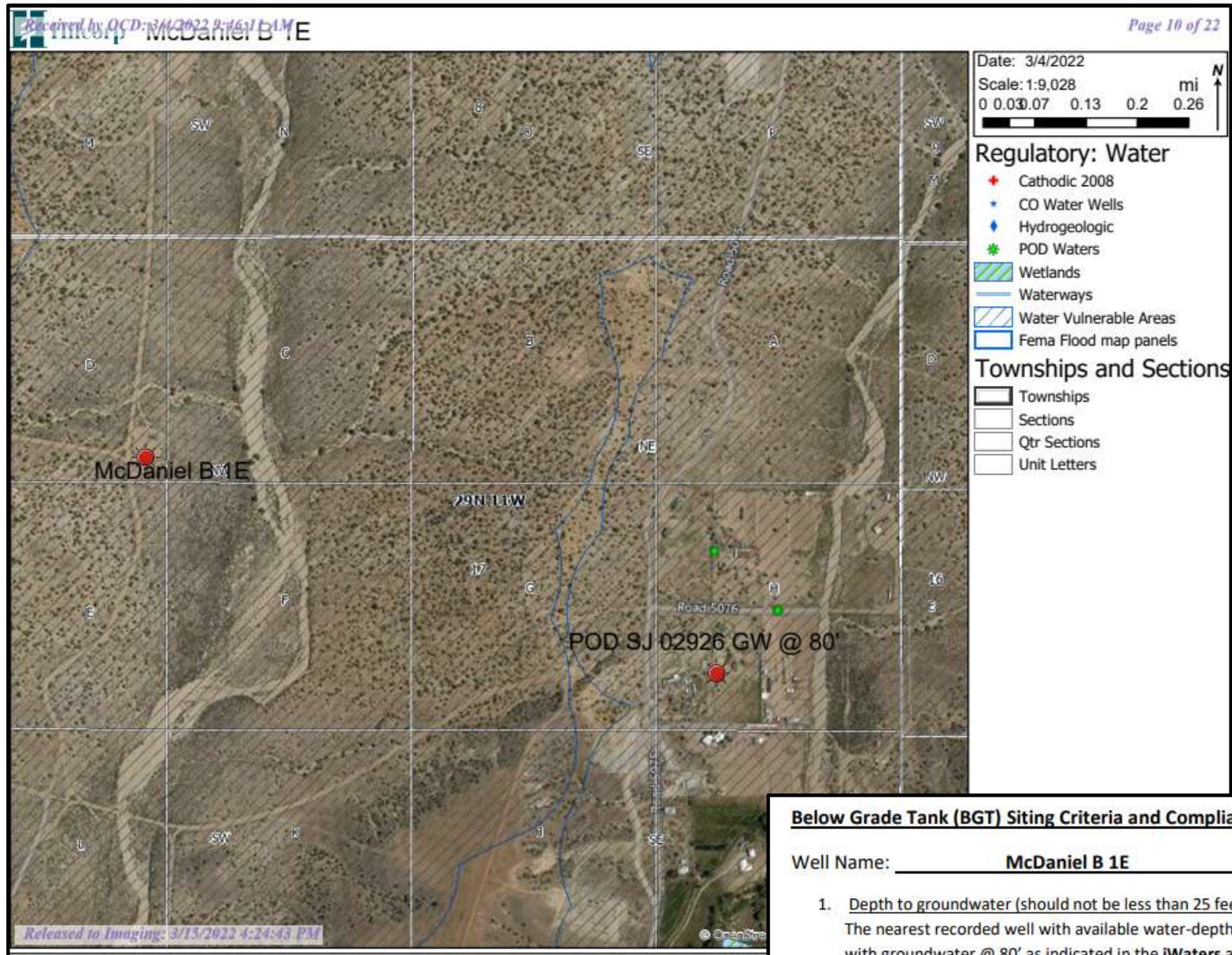
Release Area



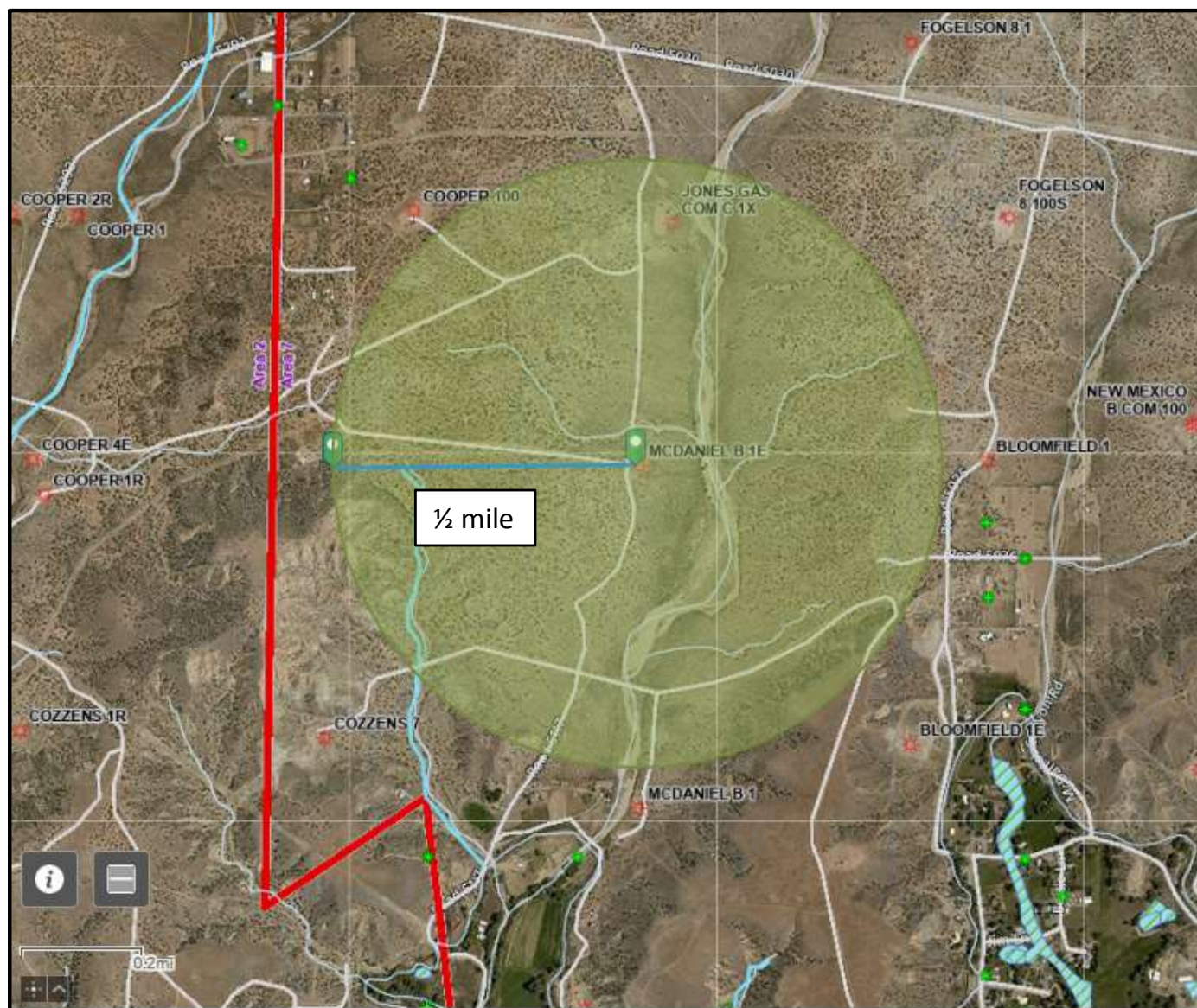
↑
N

Depth to groundwater determination.

BGT Siting Criteria for McDaniel B #1E; estimated depth to groundwater is approximately 98'.



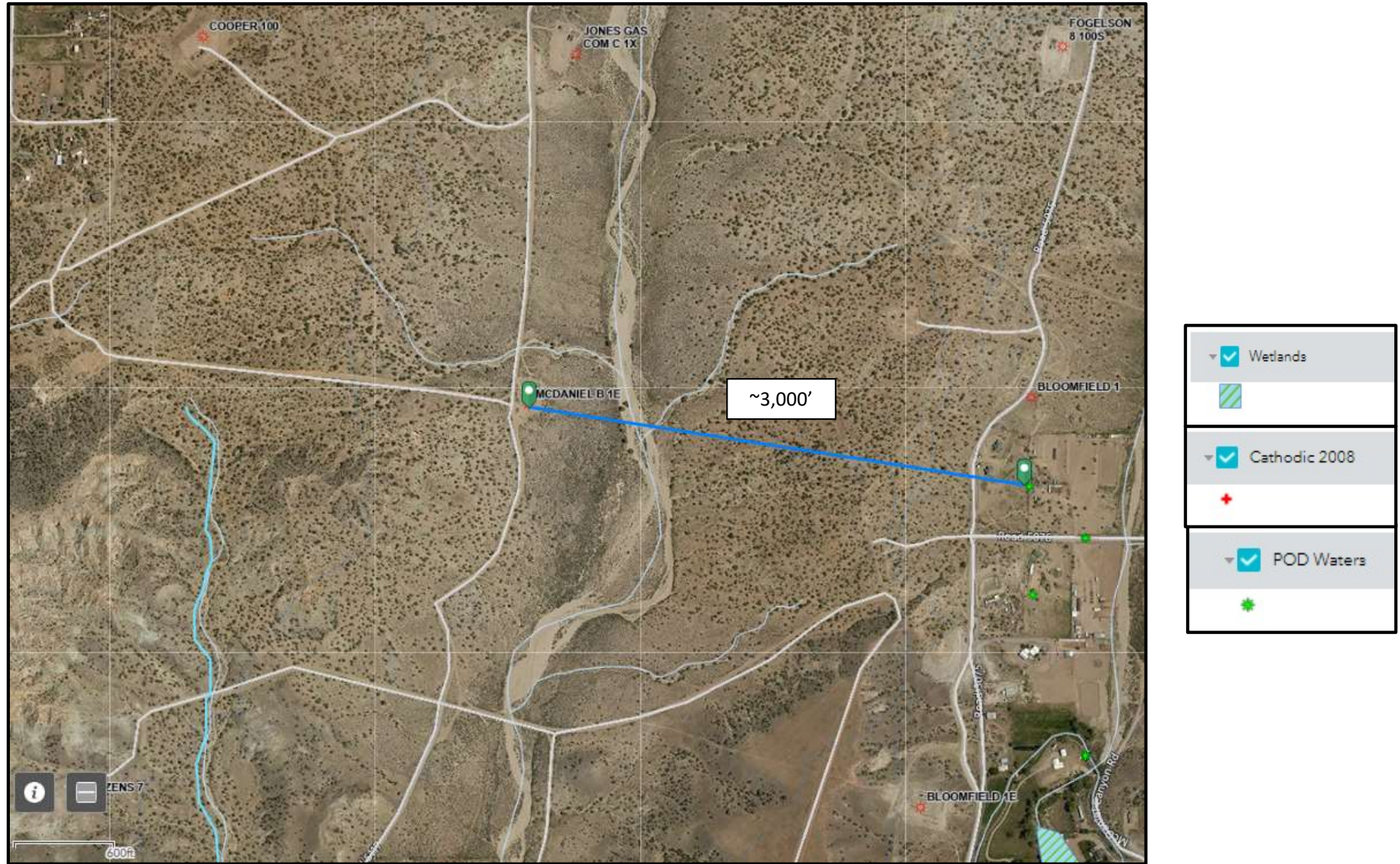
Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release



Note 1: Release point is within 300 ft of a continuously flowing watercourse or other significant water course.

Note 2: The lateral extents of the release point are not shown to be within 300 feet of a mapped wetland.

Distance to mapped water wells.



Note: The lateral extents of the release point are not shown to be within 500 ft of a spring or domestic freshwater well used by less than 5 households (or stock watering) or within 1,000 ft of any freshwater water well or spring.

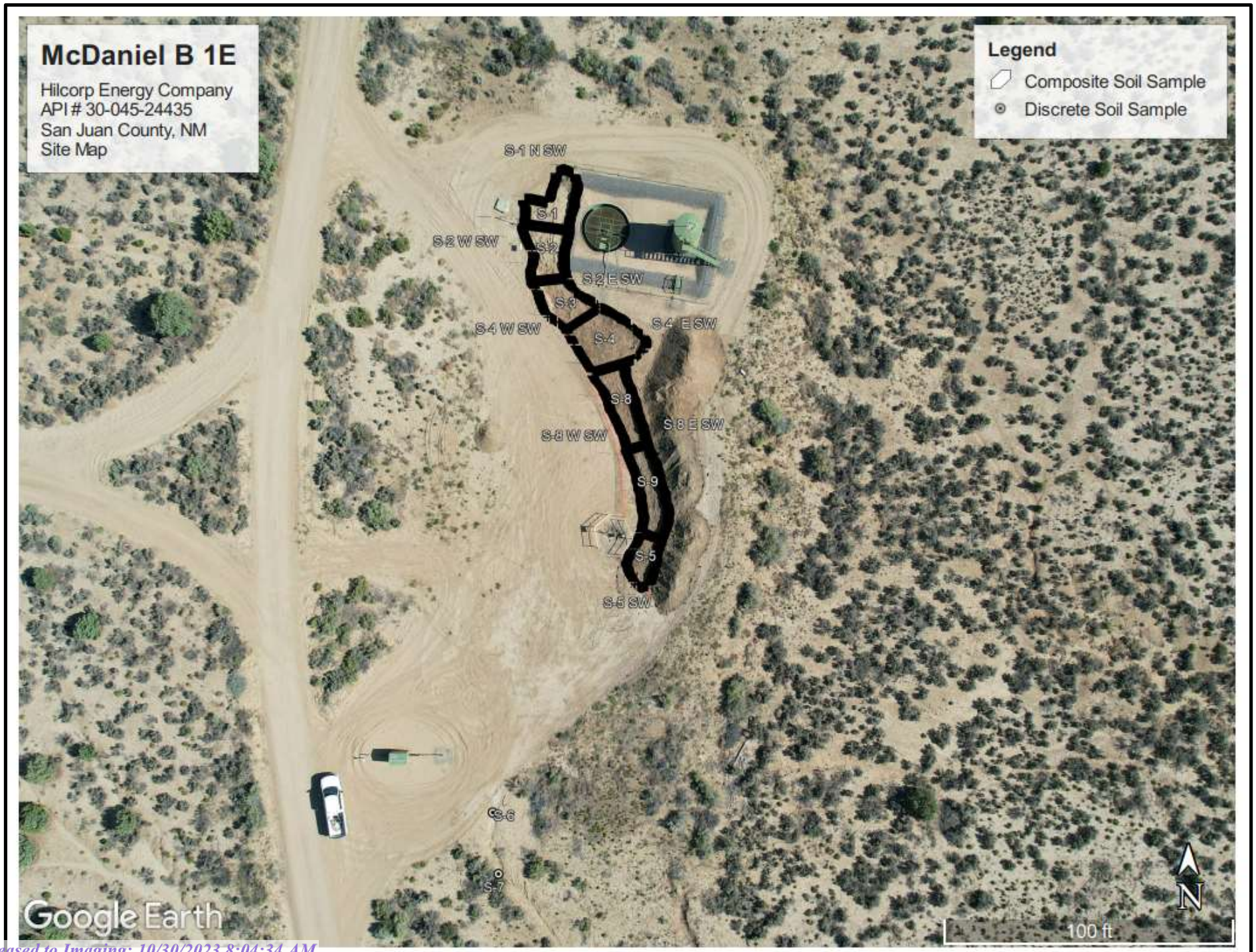
Data table of soil contaminant concentrations

| Sample Name | Sample Date | McDaniel B #1E Laboratory Results | | | | | | | | | |
|--|-------------|-----------------------------------|--------------------------|--------------------------|--------------------------|----------------------|--------------------|--------------------|-------------------------|----------------------------|-----------------------|
| | | Chloride (mg/kg) | TPH as DRO (mg/kg) | TPH as GRO (mg/kg) | TPH as MRO (mg/kg) | Total TPH (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylene (mg/kg) | Total BTEX (mg/kg) |
| 19.15.29 Table 1 Closure Criteria | | 600 | - | - | - | 100 | 10 | - | - | - | 50 |
| S-1 2' | 6/30/2023 | 240 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-1N SW 2' | 6/30/2023 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-2 2' | 6/30/2023 | 220 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-2 W SW 2' | 6/30/2023 | 96 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-2 E SW 2' | 6/30/2023 | 71 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-3 2' | 6/30/2023 | 69 | 23 | ND | ND | 23 | ND | ND | ND | ND | ND |
| S-4 2' | 6/30/2023 | 130 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-4 W SW 2' | 6/30/2023 | 290 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-4 E SW 2' | 6/30/2023 | 170 | 24 | ND | ND | 24 | ND | ND | ND | ND | ND |
| S-5 0-6" | 6/30/2023 | 2,800 | 9 | ND | ND | 9 | ND | ND | ND | ND | ND |
| S-6 0-6" | 6/30/2023 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-8 2' | 7/20/2023 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-8 E SW 2-2.5' | 7/20/2023 | ND | 25 | ND | ND | 25 | ND | ND | ND | ND | ND |
| S-8 W SW 2-2.5' | 7/20/2023 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-9 2.5' | 7/20/2023 | 74 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-5 2.5' | 7/20/2023 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| S-5 SW 2.5' | 7/20/2023 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

SW = Sidewall

Confirmation samples were collected on 6/30/2023 and 7/23/2023 by Hilcorp personnel and all results were below NMOCD 19.15.29.12.D Table 1 closure criteria. Impacted soil at Sample Point 5 (0-6" BGS) was removed for disposal. Sample results collected at 2.5' BGS were clean.

Field Sample Diagram



Sample Photos



Sample Photos



N

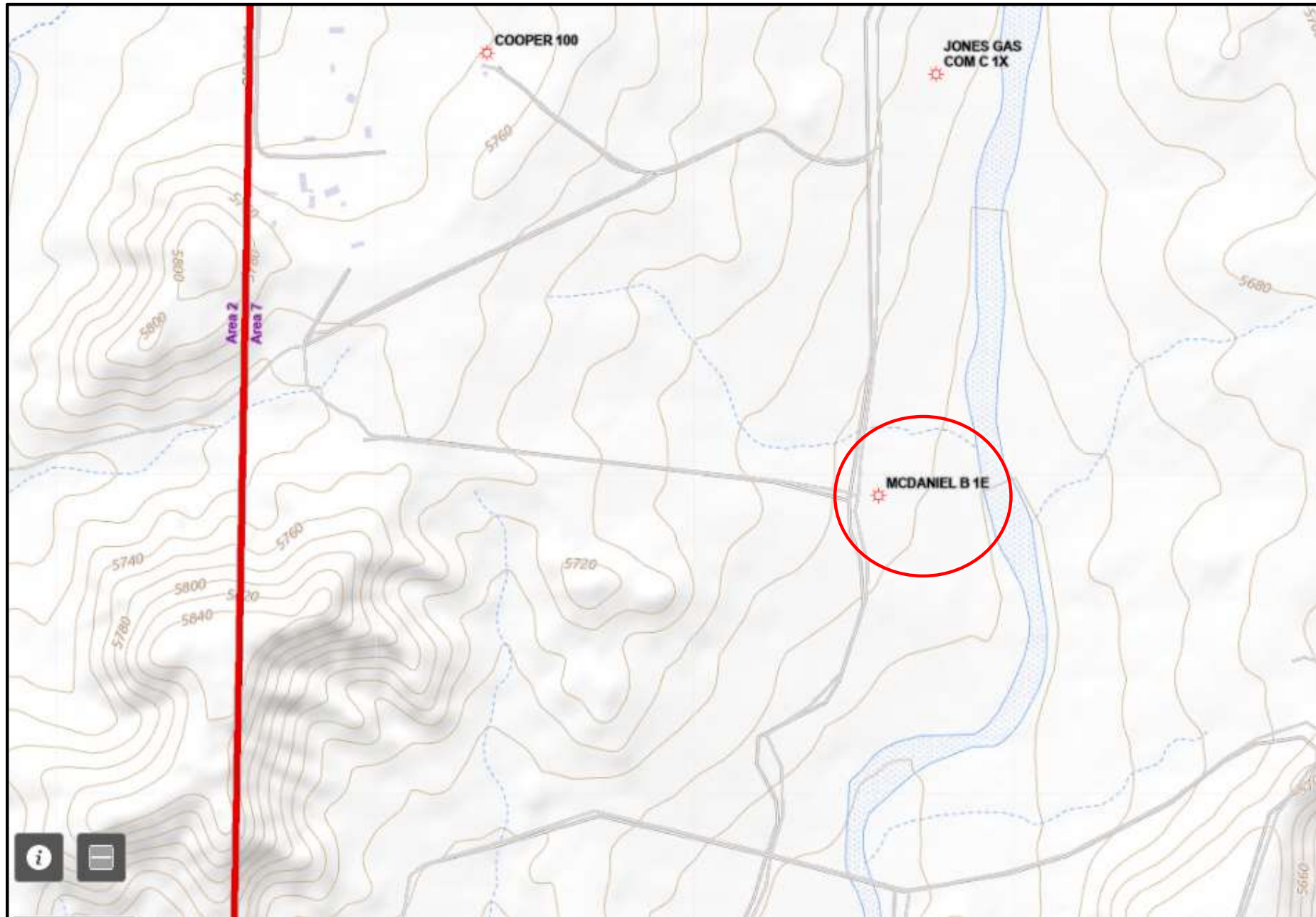


Sample Photos

N



Topographic Map



Analytical Data, Sample Collected 6/30/2023 and 7/20/2023.

See attached Lab Reports.



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

July 11, 2023

Kate Kaufman
HILCORP ENERGY
PO Box 4700
Farmington, NM 87499
TEL: (505) 564-0733
FAX:

RE: McDaniel B 1E

OrderNo.: 2307002

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 11 sample(s) on 7/1/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2307002

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-1 2'

Project: McDaniel B 1E

Collection Date: 6/30/2023 11:25:00 AM

Lab ID: 2307002-001

Matrix: SOIL

Received Date: 7/1/2023 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 7/5/2023 3:48:15 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/5/2023 3:48:15 PM |
| Surr: DNOP | 99.2 | 69-147 | | %Rec | 1 | 7/5/2023 3:48:15 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/5/2023 11:55:00 AM |
| Surr: BFB | 97.7 | 15-244 | | %Rec | 1 | 7/5/2023 11:55:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/5/2023 11:55:00 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/5/2023 11:55:00 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/5/2023 11:55:00 AM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/5/2023 11:55:00 AM |
| Surr: 4-Bromofluorobenzene | 94.6 | 39.1-146 | | %Rec | 1 | 7/5/2023 11:55:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RBC |
| Chloride | 240 | 60 | | mg/Kg | 20 | 7/6/2023 3:55:29 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

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Analytical Report

Lab Order 2307002

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-1 N SW 2'

Project: McDaniel B 1E

Collection Date: 6/30/2023 11:30:00 AM

Lab ID: 2307002-002

Matrix: SOIL

Received Date: 7/1/2023 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 7/5/2023 3:59:16 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/5/2023 3:59:16 PM |
| Surr: DNOP | 95.8 | 69-147 | | %Rec | 1 | 7/5/2023 3:59:16 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/5/2023 1:00:00 PM |
| Surr: BFB | 98.1 | 15-244 | | %Rec | 1 | 7/5/2023 1:00:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/5/2023 1:00:00 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/5/2023 1:00:00 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/5/2023 1:00:00 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/5/2023 1:00:00 PM |
| Surr: 4-Bromofluorobenzene | 93.2 | 39.1-146 | | %Rec | 1 | 7/5/2023 1:00:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RBC |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/6/2023 4:57:11 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

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Analytical Report

Lab Order 2307002

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-2 2'

Project: McDaniel B 1E

Collection Date: 6/30/2023 11:35:00 AM

Lab ID: 2307002-003

Matrix: SOIL

Received Date: 7/1/2023 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 7/5/2023 4:10:16 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/5/2023 4:10:16 PM |
| Surr: DNOP | 95.6 | 69-147 | | %Rec | 1 | 7/5/2023 4:10:16 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/5/2023 3:10:00 PM |
| Surr: BFB | 100 | 15-244 | | %Rec | 1 | 7/5/2023 3:10:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/5/2023 3:10:00 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/5/2023 3:10:00 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/5/2023 3:10:00 PM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 7/5/2023 3:10:00 PM |
| Surr: 4-Bromofluorobenzene | 96.0 | 39.1-146 | | %Rec | 1 | 7/5/2023 3:10:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RBC |
| Chloride | 220 | 60 | | mg/Kg | 20 | 7/6/2023 5:09:31 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

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Analytical Report

Lab Order 2307002

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-2 W SW 2'

Project: McDaniel B 1E

Collection Date: 6/30/2023 11:40:00 AM

Lab ID: 2307002-004

Matrix: SOIL

Received Date: 7/1/2023 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 8.9 | | mg/Kg | 1 | 7/5/2023 4:21:16 PM |
| Motor Oil Range Organics (MRO) | ND | 44 | | mg/Kg | 1 | 7/5/2023 4:21:16 PM |
| Surr: DNOP | 73.0 | 69-147 | | %Rec | 1 | 7/5/2023 4:21:16 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/5/2023 3:32:00 PM |
| Surr: BFB | 100 | 15-244 | | %Rec | 1 | 7/5/2023 3:32:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/5/2023 3:32:00 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/5/2023 3:32:00 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/5/2023 3:32:00 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 7/5/2023 3:32:00 PM |
| Surr: 4-Bromofluorobenzene | 97.1 | 39.1-146 | | %Rec | 1 | 7/5/2023 3:32:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RBC |
| Chloride | 96 | 60 | | mg/Kg | 20 | 7/6/2023 5:21:51 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

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Analytical Report

Lab Order 2307002

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-2 E SW 2'

Project: McDaniel B 1E

Collection Date: 6/30/2023 11:45:00 AM

Lab ID: 2307002-005

Matrix: SOIL

Received Date: 7/1/2023 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 7/5/2023 4:32:15 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/5/2023 4:32:15 PM |
| Surr: DNOP | 94.8 | 69-147 | | %Rec | 1 | 7/5/2023 4:32:15 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/5/2023 3:53:00 PM |
| Surr: BFB | 96.9 | 15-244 | | %Rec | 1 | 7/5/2023 3:53:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/5/2023 3:53:00 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/5/2023 3:53:00 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/5/2023 3:53:00 PM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 7/5/2023 3:53:00 PM |
| Surr: 4-Bromofluorobenzene | 95.3 | 39.1-146 | | %Rec | 1 | 7/5/2023 3:53:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RBC |
| Chloride | 71 | 60 | | mg/Kg | 20 | 7/6/2023 5:34:12 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

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Analytical Report

Lab Order 2307002

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-3 2'

Project: McDaniel B 1E

Collection Date: 6/30/2023 11:50:00 AM

Lab ID: 2307002-006

Matrix: SOIL

Received Date: 7/1/2023 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | 23 | 9.1 | | mg/Kg | 1 | 7/5/2023 4:43:16 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/5/2023 4:43:16 PM |
| Surr: DNOP | 88.4 | 69-147 | | %Rec | 1 | 7/5/2023 4:43:16 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/5/2023 4:15:00 PM |
| Surr: BFB | 97.2 | 15-244 | | %Rec | 1 | 7/5/2023 4:15:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/5/2023 4:15:00 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/5/2023 4:15:00 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/5/2023 4:15:00 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/5/2023 4:15:00 PM |
| Surr: 4-Bromofluorobenzene | 95.0 | 39.1-146 | | %Rec | 1 | 7/5/2023 4:15:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RBC |
| Chloride | 69 | 61 | | mg/Kg | 20 | 7/6/2023 5:46:33 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

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Analytical Report

Lab Order 2307002

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-4 2'

Project: McDaniel B 1E

Collection Date: 6/30/2023 11:55:00 AM

Lab ID: 2307002-007

Matrix: SOIL

Received Date: 7/1/2023 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 8.6 | | mg/Kg | 1 | 7/5/2023 4:54:16 PM |
| Motor Oil Range Organics (MRO) | ND | 43 | | mg/Kg | 1 | 7/5/2023 4:54:16 PM |
| Surr: DNOP | 105 | 69-147 | | %Rec | 1 | 7/5/2023 4:54:16 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/5/2023 4:37:00 PM |
| Surr: BFB | 101 | 15-244 | | %Rec | 1 | 7/5/2023 4:37:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/5/2023 4:37:00 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/5/2023 4:37:00 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/5/2023 4:37:00 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/5/2023 4:37:00 PM |
| Surr: 4-Bromofluorobenzene | 97.9 | 39.1-146 | | %Rec | 1 | 7/5/2023 4:37:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RBC |
| Chloride | 130 | 60 | | mg/Kg | 20 | 7/6/2023 5:58:53 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

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Analytical Report

Lab Order 2307002

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-4 W SW 2'

Project: McDaniel B 1E

Collection Date: 6/30/2023 12:00:00 PM

Lab ID: 2307002-008

Matrix: SOIL

Received Date: 7/1/2023 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.0 | | mg/Kg | 1 | 7/5/2023 5:05:13 PM |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 7/5/2023 5:05:13 PM |
| Surr: DNOP | 93.6 | 69-147 | | %Rec | 1 | 7/5/2023 5:05:13 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/5/2023 4:59:00 PM |
| Surr: BFB | 97.9 | 15-244 | | %Rec | 1 | 7/5/2023 4:59:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/5/2023 4:59:00 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/5/2023 4:59:00 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/5/2023 4:59:00 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/5/2023 4:59:00 PM |
| Surr: 4-Bromofluorobenzene | 96.1 | 39.1-146 | | %Rec | 1 | 7/5/2023 4:59:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RBC |
| Chloride | 290 | 60 | | mg/Kg | 20 | 7/6/2023 6:11:14 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

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Analytical Report

Lab Order 2307002

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-4 E SW 2'

Project: McDaniel B 1E

Collection Date: 6/30/2023 12:05:00 PM

Lab ID: 2307002-009

Matrix: SOIL

Received Date: 7/1/2023 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | 24 | 9.2 | | mg/Kg | 1 | 7/5/2023 5:16:11 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/5/2023 5:16:11 PM |
| Surr: DNOP | 98.3 | 69-147 | | %Rec | 1 | 7/5/2023 5:16:11 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/5/2023 5:21:00 PM |
| Surr: BFB | 95.8 | 15-244 | | %Rec | 1 | 7/5/2023 5:21:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/5/2023 5:21:00 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/5/2023 5:21:00 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/5/2023 5:21:00 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/5/2023 5:21:00 PM |
| Surr: 4-Bromofluorobenzene | 95.1 | 39.1-146 | | %Rec | 1 | 7/5/2023 5:21:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RBC |
| Chloride | 170 | 60 | | mg/Kg | 20 | 7/6/2023 6:23:35 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

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Analytical Report

Lab Order 2307002

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-5 0-6"

Project: McDaniel B 1E

Collection Date: 6/30/2023 12:15:00 PM

Lab ID: 2307002-010

Matrix: SOIL

Received Date: 7/1/2023 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | 9.2 | 9.1 | | mg/Kg | 1 | 7/7/2023 11:46:48 AM |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/7/2023 11:46:48 AM |
| Surr: DNOP | 72.7 | 69-147 | | %Rec | 1 | 7/7/2023 11:46:48 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/5/2023 5:43:00 PM |
| Surr: BFB | 109 | 15-244 | | %Rec | 1 | 7/5/2023 5:43:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/5/2023 5:43:00 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/5/2023 5:43:00 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/5/2023 5:43:00 PM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/5/2023 5:43:00 PM |
| Surr: 4-Bromofluorobenzene | 97.9 | 39.1-146 | | %Rec | 1 | 7/5/2023 5:43:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | 2800 | 150 | | mg/Kg | 50 | 7/7/2023 10:42:56 AM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

Analytical Report

Lab Order 2307002

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-6 0-6"

Project: McDaniel B 1E

Collection Date: 6/30/2023 12:20:00 PM

Lab ID: 2307002-011

Matrix: SOIL

Received Date: 7/1/2023 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 8.8 | | mg/Kg | 1 | 7/5/2023 5:38:10 PM |
| Motor Oil Range Organics (MRO) | ND | 44 | | mg/Kg | 1 | 7/5/2023 5:38:10 PM |
| Surr: DNOP | 72.7 | 69-147 | | %Rec | 1 | 7/5/2023 5:38:10 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/5/2023 6:27:00 PM |
| Surr: BFB | 106 | 15-244 | | %Rec | 1 | 7/5/2023 6:27:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/5/2023 6:27:00 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/5/2023 6:27:00 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/5/2023 6:27:00 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/5/2023 6:27:00 PM |
| Surr: 4-Bromofluorobenzene | 98.7 | 39.1-146 | | %Rec | 1 | 7/5/2023 6:27:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/7/2023 1:48:07 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2307002

11-Jul-23

Client: HILCORP ENERGY

Project: McDaniel B 1E

| | | | | | | | | | | |
|----------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID: MB-76022 | SampType: MBLK | | TestCode: EPA Method 300.0: Anions | | | | | | | |
| Client ID: PBS | Batch ID: 76022 | | RunNo: 98000 | | | | | | | |
| Prep Date: 7/6/2023 | Analysis Date: 7/6/2023 | | SeqNo: 3565752 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID: LCS-76022 | SampType: LCS | | TestCode: EPA Method 300.0: Anions | | | | | | | |
| Client ID: LCSS | Batch ID: 76022 | | RunNo: 98000 | | | | | | | |
| Prep Date: 7/6/2023 | Analysis Date: 7/6/2023 | | SeqNo: 3565753 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.1 | 90 | 110 | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID: MB-76052 | SampType: MBLK | | TestCode: EPA Method 300.0: Anions | | | | | | | |
| Client ID: PBS | Batch ID: 76052 | | RunNo: 98004 | | | | | | | |
| Prep Date: 7/7/2023 | Analysis Date: 7/7/2023 | | SeqNo: 3566373 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID: LCS-76052 | SampType: LCS | | TestCode: EPA Method 300.0: Anions | | | | | | | |
| Client ID: LCSS | Batch ID: 76052 | | RunNo: 98004 | | | | | | | |
| Prep Date: 7/7/2023 | Analysis Date: 7/7/2023 | | SeqNo: 3566374 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 91.3 | 90 | 110 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2307002

11-Jul-23

Client: HILCORP ENERGY**Project:** McDaniel B 1E

| Sample ID: LCS-75974 | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|--------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 75974 | | RunNo: 97944 | | | | | | | |
| Prep Date: 7/3/2023 | Analysis Date: 7/5/2023 | | SeqNo: 3563566 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 93.2 | 61.9 | 130 | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 95.0 | 69 | 147 | | | |

| Sample ID: MB-75974 | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|--------------------------------|--------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 75974 | | RunNo: 97944 | | | | | | | |
| Prep Date: 7/3/2023 | Analysis Date: 7/5/2023 | | SeqNo: 3563568 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.2 | | 10.00 | | 91.6 | 69 | 147 | | | |

| Sample ID: LCS-76045 | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|--------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 76045 | | RunNo: 97999 | | | | | | | |
| Prep Date: 7/7/2023 | Analysis Date: 7/7/2023 | | SeqNo: 3565785 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 43 | 10 | 50.00 | 0 | 86.6 | 61.9 | 130 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 86.3 | 69 | 147 | | | |

| Sample ID: MB-76045 | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|--------------------------------|--------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 76045 | | RunNo: 97999 | | | | | | | |
| Prep Date: 7/7/2023 | Analysis Date: 7/7/2023 | | SeqNo: 3565788 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.3 | | 10.00 | | 92.8 | 69 | 147 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2307002

11-Jul-23

Client: HILCORP ENERGY**Project:** McDaniel B 1E

| Sample ID: mb-75968 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 75968 | | RunNo: 97913 | | | | | | | |
| Prep Date: 7/3/2023 | Analysis Date: 7/5/2023 | | SeqNo: 3563344 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 980 | | 1000 | | 98.2 | 15 | 244 | | | |

| Sample ID: 2307002-001ams | SampType: MS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|----------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: S-1 2' | Batch ID: 75968 | | RunNo: 97913 | | | | | | | |
| Prep Date: 7/3/2023 | Analysis Date: 7/5/2023 | | SeqNo: 3563346 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 4.9 | 24.46 | 0 | 87.0 | 70 | 130 | | | |
| Surr: BFB | 2000 | | 978.5 | | 204 | 15 | 244 | | | |

| Sample ID: 2307002-001amsd | SampType: MSD | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-----------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: S-1 2' | Batch ID: 75968 | | RunNo: 97913 | | | | | | | |
| Prep Date: 7/3/2023 | Analysis Date: 7/5/2023 | | SeqNo: 3563347 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 4.9 | 24.51 | 0 | 84.7 | 70 | 130 | 2.46 | 20 | |
| Surr: BFB | 2100 | | 980.4 | | 211 | 15 | 244 | 0 | 0 | |

| Sample ID: lcs-75968 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 75968 | | RunNo: 97913 | | | | | | | |
| Prep Date: 7/3/2023 | Analysis Date: 7/5/2023 | | SeqNo: 3563500 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 5.0 | 25.00 | 0 | 85.4 | 70 | 130 | | | |
| Surr: BFB | 2000 | | 1000 | | 202 | 15 | 244 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2307002

11-Jul-23

Client: HILCORP ENERGY**Project:** McDaniel B 1E

| Sample ID: mb-75968 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 75968 | RunNo: 97913 | | | | | | | | |
| Prep Date: 7/3/2023 | Analysis Date: 7/5/2023 | SeqNo: 3563412 | 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 | 0.93 | | 1.000 | | 92.8 | 39.1 | 146 | | | |

| Sample ID: 2307002-002ams | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-1 N SW 2' | Batch ID: 75968 | RunNo: 97913 | | | | | | | | |
| Prep Date: 7/3/2023 | Analysis Date: 7/5/2023 | SeqNo: 3563415 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.89 | 0.025 | 0.9911 | 0 | 89.3 | 70 | 130 | | | |
| Toluene | 0.92 | 0.050 | 0.9911 | 0 | 92.8 | 70 | 130 | | | |
| Ethylbenzene | 0.93 | 0.050 | 0.9911 | 0 | 93.5 | 70 | 130 | | | |
| Xylenes, Total | 2.8 | 0.099 | 2.973 | 0 | 93.1 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.94 | | 0.9911 | | 94.4 | 39.1 | 146 | | | |

| Sample ID: 2307002-002amsd | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-1 N SW 2' | Batch ID: 75968 | RunNo: 97913 | | | | | | | | |
| Prep Date: 7/3/2023 | Analysis Date: 7/5/2023 | SeqNo: 3563416 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.86 | 0.025 | 0.9960 | 0 | 86.5 | 70 | 130 | 2.69 | 20 | |
| Toluene | 0.89 | 0.050 | 0.9960 | 0 | 89.4 | 70 | 130 | 3.21 | 20 | |
| Ethylbenzene | 0.91 | 0.050 | 0.9960 | 0 | 91.7 | 70 | 130 | 1.48 | 20 | |
| Xylenes, Total | 2.7 | 0.10 | 2.988 | 0 | 91.6 | 70 | 130 | 1.16 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 0.9960 | | 95.8 | 39.1 | 146 | 0 | 0 | |

| Sample ID: lcs-75968 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 75968 | RunNo: 97913 | | | | | | | | |
| Prep Date: 7/3/2023 | Analysis Date: 7/5/2023 | SeqNo: 3563501 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.84 | 0.025 | 1.000 | 0 | 84.2 | 70 | 130 | | | |
| Toluene | 0.86 | 0.050 | 1.000 | 0 | 86.0 | 70 | 130 | | | |
| Ethylbenzene | 0.87 | 0.050 | 1.000 | 0 | 87.2 | 70 | 130 | | | |
| Xylenes, Total | 2.6 | 0.10 | 3.000 | 0 | 86.9 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 1.000 | | 94.5 | 39.1 | 146 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: HILCORP ENERGY

Work Order Number: 2307002

RcptNo: 1

Received By: Cheyenne Cason 7/1/2023 8:10:00 AM

Completed By: Cheyenne Cason 7/1/2023 8:25:18 AM

Reviewed By: *in 7/13/23*

Chad

Chad

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *Chad 7/1/23*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 5.4 | Good | Yes | Morty | | |



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

July 25, 2023

Kate Kaufman
HILCORP ENERGY
PO Box 4700
Farmington, NM 87499
TEL: (505) 564-0733
FAX:

RE: McDaniel B 1E

OrderNo.: 2307997

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/21/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2307997

Date Reported: 7/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-8 2'

Project: McDaniel B 1E

Collection Date: 7/20/2023 11:40:00 AM

Lab ID: 2307997-001

Matrix: MEOH (SOIL)

Received Date: 7/21/2023 6:40:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 7/21/2023 1:15:29 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/21/2023 1:15:29 PM |
| Surr: DNOP | 86.9 | 69-147 | | %Rec | 1 | 7/21/2023 1:15:29 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 3.7 | | mg/Kg | 1 | 7/21/2023 2:11:00 PM |
| Surr: BFB | 79.3 | 15-244 | | %Rec | 1 | 7/21/2023 2:11:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.019 | | mg/Kg | 1 | 7/21/2023 2:11:00 PM |
| Toluene | ND | 0.037 | | mg/Kg | 1 | 7/21/2023 2:11:00 PM |
| Ethylbenzene | ND | 0.037 | | mg/Kg | 1 | 7/21/2023 2:11:00 PM |
| Xylenes, Total | ND | 0.075 | | mg/Kg | 1 | 7/21/2023 2:11:00 PM |
| Surr: 4-Bromofluorobenzene | 78.4 | 39.1-146 | | %Rec | 1 | 7/21/2023 2:11:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/21/2023 1:43:25 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

Analytical Report

Lab Order 2307997

Date Reported: 7/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-8 E SW 2-2.5'

Project: McDaniel B 1E

Collection Date: 7/20/2023 11:50:00 AM

Lab ID: 2307997-002

Matrix: MEOH (SOIL)

Received Date: 7/21/2023 6:40:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | 25 | 9.9 | | mg/Kg | 1 | 7/21/2023 1:39:24 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/21/2023 1:39:24 PM |
| Surr: DNOP | 88.8 | 69-147 | | %Rec | 1 | 7/21/2023 1:39:24 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 3.9 | | mg/Kg | 1 | 7/21/2023 2:33:00 PM |
| Surr: BFB | 79.9 | 15-244 | | %Rec | 1 | 7/21/2023 2:33:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.019 | | mg/Kg | 1 | 7/21/2023 2:33:00 PM |
| Toluene | ND | 0.039 | | mg/Kg | 1 | 7/21/2023 2:33:00 PM |
| Ethylbenzene | ND | 0.039 | | mg/Kg | 1 | 7/21/2023 2:33:00 PM |
| Xylenes, Total | ND | 0.078 | | mg/Kg | 1 | 7/21/2023 2:33:00 PM |
| Surr: 4-Bromofluorobenzene | 78.6 | 39.1-146 | | %Rec | 1 | 7/21/2023 2:33:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | ND | 59 | | mg/Kg | 20 | 7/21/2023 1:55:49 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

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Analytical Report

Lab Order 2307997

Date Reported: 7/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-8 W SW 2-2.5'

Project: McDaniel B 1E

Collection Date: 7/20/2023 12:00:00 PM

Lab ID: 2307997-003

Matrix: MEOH (SOIL)

Received Date: 7/21/2023 6:40:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.4 | | mg/Kg | 1 | 7/21/2023 2:03:18 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/21/2023 2:03:18 PM |
| Surr: DNOP | 89.1 | 69-147 | | %Rec | 1 | 7/21/2023 2:03:18 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 7/21/2023 2:55:00 PM |
| Surr: BFB | 79.0 | 15-244 | | %Rec | 1 | 7/21/2023 2:55:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 7/21/2023 2:55:00 PM |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 7/21/2023 2:55:00 PM |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 7/21/2023 2:55:00 PM |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 7/21/2023 2:55:00 PM |
| Surr: 4-Bromofluorobenzene | 78.6 | 39.1-146 | | %Rec | 1 | 7/21/2023 2:55:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/21/2023 2:08:14 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

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Analytical Report

Lab Order 2307997

Date Reported: 7/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-9 2.5'

Project: McDaniel B 1E

Collection Date: 7/20/2023 12:10:00 PM

Lab ID: 2307997-004

Matrix: MEOH (SOIL)

Received Date: 7/21/2023 6:40:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 7/21/2023 2:27:15 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/21/2023 2:27:15 PM |
| Surr: DNOP | 89.2 | 69-147 | | %Rec | 1 | 7/21/2023 2:27:15 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.3 | | mg/Kg | 1 | 7/21/2023 3:38:00 PM |
| Surr: BFB | 83.5 | 15-244 | | %Rec | 1 | 7/21/2023 3:38:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.021 | | mg/Kg | 1 | 7/21/2023 3:38:00 PM |
| Toluene | ND | 0.043 | | mg/Kg | 1 | 7/21/2023 3:38:00 PM |
| Ethylbenzene | ND | 0.043 | | mg/Kg | 1 | 7/21/2023 3:38:00 PM |
| Xylenes, Total | ND | 0.086 | | mg/Kg | 1 | 7/21/2023 3:38:00 PM |
| Surr: 4-Bromofluorobenzene | 79.3 | 39.1-146 | | %Rec | 1 | 7/21/2023 3:38:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | 74 | 60 | | mg/Kg | 20 | 7/21/2023 2:20:39 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

Analytical Report

Lab Order 2307997

Date Reported: 7/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-5 2.5'

Project: McDaniel B 1E

Collection Date: 7/20/2023 12:20:00 PM

Lab ID: 2307997-005

Matrix: MEOH (SOIL)

Received Date: 7/21/2023 6:40:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 7/21/2023 2:51:26 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/21/2023 2:51:26 PM |
| Surr: DNOP | 89.7 | 69-147 | | %Rec | 1 | 7/21/2023 2:51:26 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.2 | | mg/Kg | 1 | 7/21/2023 4:00:00 PM |
| Surr: BFB | 80.0 | 15-244 | | %Rec | 1 | 7/21/2023 4:00:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.021 | | mg/Kg | 1 | 7/21/2023 4:00:00 PM |
| Toluene | ND | 0.042 | | mg/Kg | 1 | 7/21/2023 4:00:00 PM |
| Ethylbenzene | ND | 0.042 | | mg/Kg | 1 | 7/21/2023 4:00:00 PM |
| Xylenes, Total | ND | 0.085 | | mg/Kg | 1 | 7/21/2023 4:00:00 PM |
| Surr: 4-Bromofluorobenzene | 78.7 | 39.1-146 | | %Rec | 1 | 7/21/2023 4:00:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | ND | 61 | | mg/Kg | 20 | 7/21/2023 2:33:04 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

Analytical Report

Lab Order 2307997

Date Reported: 7/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-5 SW 2.5'

Project: McDaniel B 1E

Collection Date: 7/20/2023 12:30:00 PM

Lab ID: 2307997-006

Matrix: MEOH (SOIL)

Received Date: 7/21/2023 6:40:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 7/21/2023 3:15:46 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/21/2023 3:15:46 PM |
| Surr: DNOP | 89.0 | 69-147 | | %Rec | 1 | 7/21/2023 3:15:46 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 3.7 | | mg/Kg | 1 | 7/21/2023 4:22:00 PM |
| Surr: BFB | 81.8 | 15-244 | | %Rec | 1 | 7/21/2023 4:22:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.018 | | mg/Kg | 1 | 7/21/2023 4:22:00 PM |
| Toluene | ND | 0.037 | | mg/Kg | 1 | 7/21/2023 4:22:00 PM |
| Ethylbenzene | ND | 0.037 | | mg/Kg | 1 | 7/21/2023 4:22:00 PM |
| Xylenes, Total | ND | 0.073 | | mg/Kg | 1 | 7/21/2023 4:22:00 PM |
| Surr: 4-Bromofluorobenzene | 79.5 | 39.1-146 | | %Rec | 1 | 7/21/2023 4:22:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/21/2023 2:45:28 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |
| | | | | |

Page 6 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2307997

25-Jul-23

Client: HILCORP ENERGY

Project: McDaniel B 1E

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: MB-76378 | SampType: MBLK | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: PBS | Batch ID: 76378 | RunNo: 98410 | | | | | | | | |
| Prep Date: 7/21/2023 | Analysis Date: 7/21/2023 | SeqNo: 3582783 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-76378 | SampType: LCS | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: LCSS | Batch ID: 76378 | RunNo: 98410 | | | | | | | | |
| Prep Date: 7/21/2023 | Analysis Date: 7/21/2023 | SeqNo: 3582784 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 90.9 | 90 | 110 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2307997

25-Jul-23

Client: HILCORP ENERGY**Project:** McDaniel B 1E

| Sample ID: MB-76333 | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 76333 | | RunNo: 98368 | | | | | | | |
| Prep Date: 7/19/2023 | Analysis Date: 7/20/2023 | | SeqNo: 3581346 | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 10 | | 10.00 | | 101 | 69 | 147 | | | |

| Sample ID: LCS-76333 | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 76333 | | RunNo: 98368 | | | | | | | |
| Prep Date: 7/19/2023 | Analysis Date: 7/21/2023 | | SeqNo: 3581347 | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.4 | | 5.000 | | 88.4 | 69 | 147 | | | |

| Sample ID: MB-76373 | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|--------------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 76373 | | RunNo: 98368 | | | | | | | |
| Prep Date: 7/21/2023 | Analysis Date: 7/21/2023 | | SeqNo: 3582008 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 8.3 | | 10.00 | | 83.2 | 69 | 147 | | | |

| Sample ID: LCS-76373 | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 76373 | | RunNo: 98368 | | | | | | | |
| Prep Date: 7/21/2023 | Analysis Date: 7/21/2023 | | SeqNo: 3582009 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 42 | 10 | 50.00 | 0 | 84.9 | 61.9 | 130 | | | |
| Surr: DNOP | 4.1 | | 5.000 | | 82.2 | 69 | 147 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 8 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2307997
25-Jul-23

Client: HILCORP ENERGY
Project: McDaniel B 1E

| | | | | | | | | | | |
|-------------------------------|--------------------------|-----|--|-------------|--------------|----------|-----------|------|----------|------|
| Sample ID: 2.5ug gro lcs | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
| Client ID: LCSS | Batch ID: R98400 | | RunNo: 98400 | | | | | | | |
| Prep Date: | Analysis Date: 7/21/2023 | | SeqNo: 3581806 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 87.5 | 70 | 130 | | | |
| Surr: BFB | 1900 | | 1000 | | 191 | 15 | 244 | | | |

| | | | | | | | | | | |
|-------------------------------|--------------------------|-----|--|-------------|--------------|----------|-----------|------|----------|------|
| Sample ID: mb | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
| Client ID: PBS | Batch ID: R98400 | | RunNo: 98400 | | | | | | | |
| Prep Date: | Analysis Date: 7/21/2023 | | SeqNo: 3581807 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 770 | | 1000 | | 77.2 | 15 | 244 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 10

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

WO#: 2307997

25-Jul-23

Client: HILCORP ENERGY**Project:** McDaniel B 1E

| Sample ID: 100ng btex lcs | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------------|---------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: BS98400 | | | RunNo: 98400 | | | | | | |
| Prep Date: | Analysis Date: 7/21/2023 | | | SeqNo: 3581880 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.99 | 0.025 | 1.000 | 0 | 98.9 | 70 | 130 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 101 | 70 | 130 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 101 | 70 | 130 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 101 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.80 | | 1.000 | | 79.9 | 39.1 | 146 | | | |

| Sample ID: mb | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|---------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: BS98400 | | | RunNo: 98400 | | | | | | |
| Prep Date: | Analysis Date: 7/21/2023 | | | SeqNo: 3581881 | | 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 | 0.79 | | 1.000 | | 78.8 | 39.1 | 146 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL 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

Client Name: Hilcorp Energy

Work Order Number: 2307997

RcptNo: 1

Received By: Tracy Casarrubias 7/21/2023 6:40:00 AM

Completed By: Tracy Casarrubias 7/21/2023 7:11:49 AM

Reviewed By: *one* 7/21/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐

8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *one 7/21/23*

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions: Mailing address and phone number are missing on COC - TMC 7/21/23

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 2.5 | Good | Yes | Morty | | |

Chain-of-Custody Record

Client: Hilcorp

Mailing Address:

Phone #:

email or Fax#: ~~603.886.1234~~
QA/QC Package: ~~brandon.sinclair@hikorp.com~~
brandon.sinclair@hikorp.com

QA/QC Package: brandon.sinclair@h1corp.com

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance☐ NFI/AC ☐ Other☐ EDD (Type)

| Date | Time | Matrix | Sample Name |
|------|------|--------|-----------------|
| 7-20 | 1140 | Soil | S-8 2' |
| | 1150 | | S-8 E SW 2-2.5' |
| | 1200 | | S-8 W SW 2-2.5' |
| | 1210 | | S-9 2.5' |
| | 1220 | | S-5 2.5' |
| | 1230 | | S-5 SW 2.5' |

Turn-Around Time:

☐ Standard

Rush 7-24-23

Project Name:

McDaniel BIE

Project #:

Project Manager:

Kate Kaufman

Sampler: Braden Sinclair

| | | | |
|----------------------------|----------|---|-----------------------------|
| Completed: <u>6/1/2008</u> | Qn ce: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
|----------------------------|----------|---|-----------------------------|

| Call Log. | # of Calls. |
|-----------|-------------|
| 10/1/80 | 1 |
| 10/2/80 | 1 |
| 10/3/80 | 1 |
| 10/4/80 | 1 |
| 10/5/80 | 1 |
| 10/6/80 | 1 |
| 10/7/80 | 1 |
| 10/8/80 | 1 |
| 10/9/80 | 1 |
| 10/10/80 | 1 |
| 10/11/80 | 1 |
| 10/12/80 | 1 |
| 10/13/80 | 1 |
| 10/14/80 | 1 |
| 10/15/80 | 1 |
| 10/16/80 | 1 |
| 10/17/80 | 1 |
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| 10/22/80 | 1 |
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| 10/24/80 | 1 |
| 10/25/80 | 1 |
| 10/26/80 | 1 |
| 10/27/80 | 1 |
| 10/28/80 | 1 |
| 10/29/80 | 1 |
| 10/30/80 | 1 |
| 10/31/80 | 1 |
| 11/1/80 | 1 |
| 11/2/80 | 1 |
| 11/3/80 | 1 |
| 11/4/80 | 1 |
| 11/5/80 | 1 |
| 11/6/80 | 1 |
| 11/7/80 | 1 |
| 11/8/80 | 1 |
| 11/9/80 | 1 |
| 11/10/80 | 1 |
| 11/11/80 | 1 |
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| 11/30/80 | 1 |
| 12/1/80 | 1 |
| 12/2/80 | 1 |
| 12/3/80 | 1 |
| 12/4/80 | 1 |
| 12/5/80 | 1 |
| 12/6/80 | 1 |
| 12/7/80 | 1 |
| 12/8/80 | 1 |
| 12/9/80 | 1 |
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| 12/11/80 | 1 |
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| 12/14/80 | 1 |
| 12/15/80 | 1 |
| 12/16/80 | 1 |
| 12/17/80 | 1 |
| 12/18/80 | 1 |
| 12/19/80 | 1 |
| 12/20/80 | 1 |
| 12/21/80 | 1 |
| 12/22/80 | 1 |
| 12/23/80 | 1 |
| 12/24/80 | 1 |
| 12/25/80 | 1 |
| 12/26/80 | 1 |
| 12/27/80 | 1 |
| 12/28/80 | 1 |
| 12/29/80 | 1 |
| 12/30/80 | 1 |
| 12/31/80 | 1 |

[illegible]

Container Preservative

207097

15

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22

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003

1

003

005

| | |
|---|---|
| 3 | 8 |
|---|---|

| | | |
|-------|-------|------------------|
| Date: | Time: | Relinquished by: |
|-------|-------|------------------|

Handwritten signature

| | |
|-------|-------|
| Date: | Time: |
|-------|-------|

Relinquished by:

Received by: Via:

11/2/20

Received by:

Date 11/15

Time

1/20/23 1641

time

3

Remarks:

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

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

CONDITIONS

Action 246696

CONDITIONS

| | |
|--|---|
| Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002 | OGRID: 372171 |
| | Action Number: 246696 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| nvelez | None | 10/30/2023 |